

जयपुर विकास प्राधिकरण, जयपुर

कमरा नं.139-C, First Floor, Main Building, रामकिशोर व्यास भवन, इन्दिरा सर्किल जवाहर लाल नेहरू मार्ग, जयपुर-302004

दूरभाष : + 91-141-2569696, ई-मेल : erdk72@gmail.com

क्रमांक: जविप्रा/अधि.अभि. (Traffic Works-I)/2020-21/डी-35

दिनांक:-18.11.2021

निविदा सूचना

निविदा सूचना: जविप्रा/अधि. अभि. (Traffic Works-I)/04/2021-22

जयपुर विकास प्राधिकरणद्वारा "जवाहर सर्किल, जयपुर पर यातायात सुधारीकरण एवं सौन्दर्यीकरण के कार्य" जिसकी अनुमानित लागत रु 4240.10 लाख के लिए ऑनलाईन बिड्स दिनांक 29.11.2021 को सायं 6:00 बजे तक आमन्त्रित की जाती है। निविदा बोली का ऑनलाईन आवेदन व भुगतान जविप्रा पोर्टल पर करने की अन्तिम तिथि 29.11.2021 को सायं 6:00 बजे तक है।

निविदा बोली के दस्तावेजों का विस्तृत विवरण www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in पर देखा जा सकता है।

(UBN No.

)

निविदा में भाग लेने वालों को निम्न शर्तों की पूर्ति करनी होगी।

1. निविदादाता जयपुर विकास प्राधिकरण की वेबसाइट www.jda.urban.rajasthan.gov.in पर पंजीकृत हो एवं निविदा में भाग लेने के लिए बोलीदाता को आवेदन करने के लिए दस्तावेज शुल्क, अमानत राशि, आर.आई.एस.एल. प्रोसेसिंग शुल्क ऑन लाईन जमा करनी होगी।
2. ऑनलाईन निविदा प्रस्तुत करने के लिए निविदादाताओं का राजस्थान सरकार के ई-प्रोक्यूरमेंट पोर्टल www.eproc.rajasthan.gov.in पर पंजीकृत हो।

(देवेन्द्र केवलिया)

अधिशाषी अभियन्ता (Traffic Works-I)



JAIPUR DEVELOPMENT AUTHORITY, JAIPUR BID DOCUMENTS

TECHNICAL BID

(PRE QUALIFICATION)

Envelope – 2

FOR THE WORK OF

**Traffic Improvement and beautification works at Jawahar Circle, JDA,
Jaipur, Rajasthan.**

Period of Download	:	From 19.11.2021 to 29.11.2021
Period of Upload	:	From 19.11.2021 to 29.11.2021
Date of Pre Bid Meeting	:	23.11.2021 at 10:30 AM
Date of opening of technical bid	:	30.11.2021 at 11.30 AM (Room No. 139-C, First Floor, Main Building, JDA Campus, Jaipur.)
Approximate Cost	:	Rs.4240.10 Lakh.
Cost of Bid document	:	Rs. 5000.00 payable online only.
Bid processing Fee	:	Rs. 1000.00 payable online only.
Completion period	:	12 Months

**Executive Engineer-Traffic Works-I,
JDA, Jaipur**



JAIPUR DEVELOPMENT AUTHORITY

Office of Executive Engineer Traffic Works-I, Room No. 139-C, First Floor, Main Building,
JDA Campus, Jaipur, JDA Campus, Indira Circle, JawaharLal Nehru Marg, Jaipur-
302004

Telephone: +91-141-2569696 EPABX1139email:erdk72@gmail.com

No: JDA/EE-Traffic Works-I /2021-22/D-35

Dated:18.11.2021

NOTICE INVITING BID NIB NO:EE-Traffic Works-I/ 04/2021-22

Online Bids are invited up-to 6.00 PM of 29.11.2021 for Traffic Improvement and beautification works at Jawahar Circle, JDA, Jaipur, Rajasthan estimated cost of Rs. Rs. 4240.10 Lakh. The last date for applying Bid and making online payment on JDA portal is up to 6.00 PM dated 29.11.2021.

Details may be seen in the Bidding Document at our office or the website of State Public Procurement Portal website www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jaipurjda.org for participating in the Bid, the Bidder has to apply for the Bid and pay the Bidding Document Fee, RISL Processing Fee online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e- Bid submission.
3. Registered in "AA" Class in JDA or Any Central Government Department/State Government Department/Local Body/Railways or Corporations.

Executive Engineer-Traffic Works-I,
JDA, Jaipur



JAIPUR DEVELOPMENT AUTHORITY

Office of Executive Engineer Traffic Works-I, Room No. 139-C, First Floor, Main Building,
JDA Campus, Jaipur, JDA Campus, Indira Circle, JawaharLal Nehru Marg, Jaipur-
302004

Telephone: +91-141-2569696 EPABX 1139 email: erdk72@gmail.com

No: JDA/EE-Traffic Works-I /2021-22/D-35

Dated:18.11.2021

NOTICE INVITING BID NIB NO: EE- Traffic Works-I/04/2021-22

Name & Address of the Procuring Entity	➤ Name : Executive Engineer Traffic Works-I, Jaipur Development Authority Address : Room No. 139-C, First Floor, Main Building, JDA Campus, Jaipur, JDA Campus, Indira Circle, JawaharLal Nehru Marg, Jaipur- 302004 ➤ Email : erdk72@gmail.com
Subject Matter of Procurement	Traffic Improvement and beautification works at Jawahar Circle, JDA, Jaipur, Rajasthan.
Bid Procedure	➤ Two Stage tender (Envelope) open competitive E-Bid procedure at http://eproc.rajastha.gov.in
Bid evaluation Criteria (Selection Method)	➤ L1(eg. Least Cost based Selection (LCBS)-L1)
Websites for downloading Bidding Document, Corrigendum's, Addendums, etc.	➤ Websites: www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in, www.jda.urban.rajasthan.gov.in
Website for online Bid application and payment	➤ Website : www.jda.urban.rajasthan.gov.in ➤ For participating in the Bid, the Bidder has to apply for this Bid and pay the Bidding Document Fee, RISL Processing Fee and Bid Security Deposit, online only. ➤ Bidding Document fee : Rs 5000.00/-Rupees (Rupees One Thousand only) ➤ RISL Processing Fee : Rs 1000.00 (Rupees One Thousand only)
Estimated Procurement Cost	➤ INR in Lakh (Rupees 4240.10)



Bid Security Deposit	➤ All the eligible contractors should be submit Bid Security declaration on non-judicial stamp of Rs. 50/- as per office order issued by Finance Department (GF&AR) GoR dated 23.12.2020 (Declaration form attached with tender document). It is mandatory to submit bid security declaration in prescribed format along with the bid. ➤ Eligibility – Bidder who is “AA” class contractor registered in JDA and other Government Department.
Pre-Bid	➤ 23.11.2021 at 10:30 AM in "Manthan Hall", Third Floor, Main Building, JDA Campus, Jaipur.
Start/End date for Bid Applying, Online Payment and Bid Submission	➤ Start Date: 19.11.2021 from 9.30 AM onwards ➤ End Date: 29.11.2021 upto 6.00 PM
Applying bid and making online payment on JDA portal	➤ Start Date: 19.11.2021 from 9.30 AM onwards ➤ End Date: 29.11.2021 upto 6.00 PM
Date/Time Place of Technical Bid Opening	➤ 30/11/2021 at 11:30 PM in Room No. 107, First Floor, CCC Building, JDA Campus, Jaipur.
Date/Time/Place of Financial Bid Opening	➤ After evaluation of Technical Bid successful bidder shall be informed on e-proc portal. ➤ SE-II, Room No. 107 First Floor, CCC Building, Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Negru Marg, Jaipur- 302004 (Rajasthan)
Bid Validity	➤ 120 days from the bid submission deadline.
Time period	➤ 12 months
Job No.	➤ JDA/EE TR works-I/ A&F/ 2021-2022/JUL/103 Dated 13.07.2021
• The amount is to be deposited online by bidder. In case the amount exceeds the online Payment limit the payment may be made through RTGS/NEFT in ICICI Bank Account Number 675401700586 IFSC Code ICIC0006754. After Successful payment, update the UTR/Instrument number on JDA tender portal against the tender you want to participate. The amount deposited will be confirmed by JDA and will be updated online.	
Note :- 1. Bidder (authorized Signatory) shall submit their offer on-line in Electronic formats both for technical and financial proposal. 2. In case, any of the bidders fails to pay tender Fee and RISL Processing Fee Online (Subject to Confirmation) its Bid shall not be accepted. 3. To participate in online bidding process, bidders must procure a digital signature Certificate (Type III) as per information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCsafecrypt, Ncode etc. Bidders who already have a valid Digital signature Certificate (DSC) need not procure a new DSC. Also bidders must register on http://eproc.rajasthan.gov.in (Bidders already registered on http://eproc.rajasthan.gov.in before 30.09.2011 must register again). 4. JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed: chocking of web site due to heavy load or any other unforeseen problems. 5. Bidders are also advised to refer “Bidders Manual Kit” available at e-proc website for further details about the e-tendering process. 6. Training for the bidders on the usage of e-tendering system (e-procurement) is also being arranged by DoIT&C, GoR on a regular basis. Bidders interested for training	



may contact e-procurement Cell, DoIT& C for booking the training slot.

Contact No. : 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in

Address : E-Procurement Cell, JDA YojanaBhawan, TilakMarg, C-Scheme, Jaipur.

7. The procuring entity reserves the complete right to cancel the bid process and reject any or all of the bids.
8. No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
9. Procurement entity disclaims any factual/ or other errors in the bidding documents (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
10. The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPP Act 2012 and Rules thereto, the later shall prevail.
11. For procedure of Prequalification of the contractors chapter "SPECIAL CONDITIONS OF THE CONTRACT FOR PRE QUALIFICATION OF CONTRACTORS" must be referred.

**Executive Engineer-Traffic Works-I,
JDA, Jaipur**



Part of NIB Document

Process for participation & Depositing Payment Online

Jaipur Development Authority, has decided to receive Bidding document fee, RISL Processing Fee through online mode only for which the bidder has to get registered himself on JDA portal www.jda.urban.rajasthan.gov.in.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jda.urban.rajasthan.gov.in (by depositing Rs 500.00 online, the validity of which remains 3 (three) years.)
For participating in the Bid, the Bidder has to apply for this Bid and pay the bid Document Fee, RISL Processing Fee and Bid Security Deposit online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

Methods for depositing online amount

- Online through internet Banking, Debit card or Credit Card.
- In case the amount exceeds the online payment limit, the payment may be made through RTGS/NEFT/Transfer in Bank Account Number 675401700586 IFSC Code ICIC0006754 of ICICI Bank limited, JDA Campus Jaipur.

In Case of RTGS/NEFT/Transfer the bidder is required to deposit the requisite amount in the dedicated bank account number as mentioned above and has to get the UTR/ Reference number from the bank. This number requires to be updated while applying the bid on JDA portal.

While participation in the bid, a receipt will be generated through the system showing the submission details as per Annexure-4. The bidder is required to fill the instrument numbers for various heads on e-procurement portal www.eproc.rajasthan.gov.in as mentioned in the receipt.

More details about Registration Process, Terms and Conditions and FAQ along with contact detail is available on JDA website www.jda.urban.rajasthan.gov.in.



Template of Online Receipt as part of NIB Document

JIPUR DEVELOPMENT AUTHORITY

Bid Participation Receipt

Date & Time:

Bid Detail

Bid ID : EE- Traffic Works-I /04/2021-22	Procurement Entity	Executive Engineer- Traffic Works-I, JDA, Jaipur.
Bid Title :	Traffic Improvement and Beautification works at Jawahar circle, JDA, Jaipur	
Bid Value : 4240.10 lakh	Tech Bid Opening Place :	Room No. 107, First Floor, CCC Building, JDA Campus, Jaipur.

Bidder Detail

Name of Entity		Mobile :
Registration Type :		Instrument Amount:
Payment Mode :	Online / UTR	Payment Channel : Payment Gateway/ ICICI Branch - JDA
Instrument No.		Instrument date:

Dates Detail

Sr. No.	Event Name	Event Date
1	Publishing date/On line start date for bid applying	19.11.2021 at 9.30 AM
2	Bid Opening Date	30.11.2021 at 11.30 AM

Specific Instrument detail for e Proc Rajasthan

Instrument Type : DD			
Instrument Number	Head Name	Amount	Date
10000	Bid Document Fee	5000.00	
10001	RISL Processing Fee	1000.00	
10002	Bid Security Deposit	Bid Security declaration on non-judicial stamp of Rs. 50/- as per office order issued by Finance Department (GF&AR) GoR dated 23.12.2020	

Issuer Detail: Jaipur Development Authority Challan Number:



JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

SCHEDULE AND SPECIFICATIONS

Name of Work: -Traffic Improvement and Beautification works at
Jawahar circle, JDA, Jaipur.

1. NIB No. : EE- Traffic Works-I/04/2021-22
2. Approximate cost : ₹ 4240.10 Lakh
3. Cost of the Bid document : ₹ 5000.00 Through On Line Payment only.
4. Bid Processing Fees : ₹ 1000.00 Through On Line Payment only.
5. Bid Security (In favor of Secretary, JDA, Jaipur.) : All the eligible contractors should be submit Bid Security declaration on non-judicial stamp of Rs. 50/- as per office order issued by Finance Department (GF&AR) GoR dated 23.12.2020 (Declaration form attached with tender document). It is mandatory to submit bid security declaration in prescribed format along with the bid.
6. Download of Bid document : From 19.11.2021 At 09:30 AM to 29.11.2021 up to 6:00 PM
7. Upload the Bid Document : From 19.11.2021 At 09:30 AM to 29.11.2021 up to 6:00 PM
8. Date of Pre Bid Meeting : 23.11.2021 at 10:30 PM
9. Last Date of submission of Bid cost, Bid Process cost & Bid Security. : 29.11.2021 up to 06:00 PM through online only.
10. Date of opening of Technical Bid : 30.11.2021 at 11:30 AM in Room No. 107, First Floor, CCC Building, JDA, Campus, Jaipur.
11. Completion period of work : 12 Months



SCHEDULE – A: INFORMATION USEFUL FOR THE BIDDERS:

The Bidder should see the site and fully understand the conditions of the site before bidding and include all lead, lift etc for the material in his item rate/percentage to be quoted on the rates give in the Schedule 'G'. The work shall be carried out in accordance with the MoRTH specifications/IRC specifications and to the entire satisfaction of the Engineer-In-Charge of the work.

SCHEDULE – B: LIST OF THE DRAWING:

General Arrangement Drawing (GAD) and other drawings may be seen in office of the undersigned.

SCHEDULE – C: LIST OF THE DRAWING TO BE SUPPLIED BY THE BIDDER:

List of the drawing to be supplied by the bidder-NIL. But the bidder shall have to arrange at his own cost drawings required for the work after deposition necessary cost with JDA.

SCHEDULE - D: TEST OF THE MATERIALS:

The testing of the materials and workmanship shall be conducted by the JDA staff as necessary. The result of such tests should confirm to the standard laid down in the Indian standard MORTH/IRC/PWD detailed specification. Qualified personnel as required duly approved by JDA shall have to be engaged at site by the contractor at his cost. The JDA reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE – E: SAMPLES OF THE MATERIALS:

The sample of the materials to be used by the bidder shall be deposited 15 days in advance with the Engineer In charge and be got approval by him before use.

SCHEDULE - F: TIME OF COMPLETION:

The work should start by date of commencement as mentioned in Work order and complete within time limit.

SCHEDULE – G: Attached Separately

SCHEDULE – H: SPECIAL CONDITION: Attached Separately.

SCHEDULE – I: LIST OF MATERIAL TO BE SUPPLIED BY THE DEPARTMENT:

NIL

SCHEDULE – J: COST OF BID DOCUMENTS, PROCESSING FEES& B.S.D.

Date of submission of Bid document Cost, Bid Processing fees & Bid declaration form upto 29.11.2021 upto 6:00 PM through online payment after registering with JDA on www.jda.urban.rajasthan.gov.in portal. In the absence of such feed the bid of respective bidder will be considered as non-responsive and shall be rejected. All the eligible contractors should be submit Bid Security declaration on non-judicial stamp of Rs. 50/- as per office order issued by Finance Department (GF&AR) GoR dated 23.12.2020. (Declaration form attached with tender document). It is mandatory to submit bid security declaration in prescribed format along with the bid. (Format is attached herewith).

Annexure A : Compliance with the code of Integrity and No Conflict of Interest

Annexure B : Declaration by the Bidder regarding Qualifications

Annexure C : Grievance Redressal during Procurement Process

Annexure D : Additional Conditions of Contract.

Signature of the Bidder
with address

Executive Engineer-Traffic Works-I,
JDA, Jaipur



SPECIAL CONDITIONS

SCHEDULE 'H'

01. Use of Bitumen mixture Tar mechanical lime grinder, cement concrete mixer & vibrator is essential for the work, which shall have to be arranged by the bidder at his own level/cost.
02. If there is any typographical error or otherwise in the 'G' Schedule the rates given in the relevant BSR on which schedule 'G' has been prepared, shall prevail.
03. The bidder shall follow the bidder labour regulation and abolition Act 1970 & Rule 1971.
04. The JDA shall have right to cause on audit and technical examination of the work and the final bills of the bidder including all supporting vouchers, abstract etc. to be made within two years after payment of the final bills and if as a result such audit any amount is found to have been over paid/excess in respect of any work done by the bidder under the contract or any work claimed by him to have been done under this contract and found not to have been executed the bidder shall be liable to refund such amount and it shall be lawful ;for the JDA to recover such sum from him in ;the manner prescribed in special condition no. 6 or any other manner legally permissible and if it is found that the bidder was paid less then that was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be paid by the JDA to the bidder.
05. The bidder shall not work after the sunset and before sunrise without specific permission of the authority Engineer.
06. Whenever any claim against the bidder for the payment of a sum of money arises out or under the contracts, the JDA shall be entered to recover the sum by appropriating in part or whole of the security deposit of the bidder. In the event of the security being insufficient or if no security has been taken from the bidder then the balance of the total sum recoverable as the case may shall be deducted from any sum then due or which a any time there contract with the JDA should this sum be sufficient to recover the full amount recoverable, the bidder shall pay to JDA on demand the balance remaining due. The JDA shall further have the right to effect such recoveries under P.D.R. Act.
07. The rate quoted by the bidder shall remain valid for a period of **Four Months** from the date of opening of the bids.
08. By submission of this bid the bidder agree to abide with all printed conditions provided in the PWD manual form 64 (Chapter 3-para 36) and subsequent modification.
09. No conditions are to be added by the bidder and conditional bid is liable to be rejected.
10. All transaction in the execution of this work and this bid will be liable to sale-tax vide section 2(B) read with sub clause (4) Sale-tax Rule, 1954.
11. If any bidder withdraws his bid prior to expiry of said validity period given at S.No. 7 or mutually extended prior or makes modifications in the rates, terms and conditions of the bid within the said period which are not acceptable to the department or fails to commence the work in the specified period, fails to execute the agreement the department shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of earnest money given in any form absolutely. If any



- bidder, who having submitted a bid does not execute the agreement or start the work or does not complete the work and the work has to be put to rebidding, he shall stand debarred for six months from participating of bidding in JDA in addition to forfeiture of Earnest Money / Security Deposit and other action under agreement
12. The bidder shall arrange his own machinery required for the work such as Bitumen Mixer, Batch Mix plants and paver, road roller, Tar boiler, sprayer etc.
 13. The bidder shall arrange his own storage tanks upto 10 Tones capacity for storing bulk bitumen wherever supplied by the department.
 14. Rules regarding enlistment of bidders provide that work; upto five times limit for which they are qualified for bidding can be allotted to them Therefore, before bid the bidders will keep this in mind, and submit the details of work. Bids with incomplete or incorrect information are liable to be rejected.
 15. Any material not conforming to the specifications collected at site shall have to be removed by the bidder within a period of 3 days of the instructions, issued by the Engineer-In-charge in writing. Failing which, such material shall be removed by the Engineer-In-charge at risk and the bidder after expiry of 3 days period.
 16. The material collected at site and paid provisionally shall remain under the watch and ward of the bidder till it is consumed, fully on the work.
 17. The rates provided in bid documents are inclusive of all Taxes royalty. Bidder will be responsible for compliance of GST Act/Rule 2017.
 18. For paver work at least 3 road rollers shall be simultaneously deployed.
 19. Bitumen for tack coat or any other purposes, shall be applied only by a bitumen sprayer of a mechanical pressure.
 20. No extra lead of earth/material shall be paid over and above as specified in 'G' schedule. Source/borrow pit area for earth shall have to be arranged by the Bidder at his own cost.
 21. Undersigned has full right to reject any or all bids without given any reasons.
 22. Mortar of Masonry work and lean concrete will be permitted mixer with hopper.
 23. As per Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the act."
 24. **Special Conditions of Contract regarding Defect Liability Period (DLP) for various works costing Rs. 25.00 lacs and more shall be applicable.**
 25. The bidders are required to submit copy of their enlistment as bidder.
 26. Conditions of RPWA-100 will be mandatory & acceptable to the bidder.
 27. Any bid received with unattested cutting/overwriting in rates shall be rejected and such bidder will be debarred from bidding for three months in JDA.
 28. The bidder will have to install display boards at site of work as directed by Engineer In Charge. Failing which penalty of Rs. 5000/- day will be imposed.



29. All the provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 will be applicable. If there is any contradiction in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 shall be applicable.
30. नगरीय विकास एवं आवासन विभाग के आदेश क्रमांक प-1(24)नविवि/1/2020 लूज जयपुर, दिनांक 20.09.2021 के निर्देशानुसार "निविदाओं में संवेदकों द्वारा बी.एस.आर दर से कम दर डालने पर अन्तर राशि (At Par की दर से जितनी कम है) वर्क परफोरमेन्स गारन्टी के रूप में कार्य प्रारंभ करने से पूर्व ली जायेगी तथा इसे कार्य के सन्तोषजनक रूप से पूर्ण होने के पश्चात दोष निवारण अवधि में कार्य की स्थिति संतोषजनक पाये जाने पर दोष निवारण अवधि उपरांत वापस लौटा दिया जायेगा। न्यूनतम दरदाता की बोली नियमानुसार स्वीकृत कर Letter of acceptance (LoA) जारी किया जावेगा एवं बीएसआर दर से कम दर की अन्तर राशि की BG/FDR/NSC प्रस्तुत करने हेतु 14 दिवस का समय दिया जायेगा। अन्तर राशि जमा नहीं कराने पर BID Security की राशि नियमानुसार जब्त कर ली जावे। यदि संवेदक वर्क पर फोरमेन्स गारन्टी राशि जमा कराने के पश्चात कार्य सन्तोषजनक रूप से पूर्ण नहीं करता है अथवा दोष निवारण अवधि में कार्य में खराबी होती है, तो उसकी वर्क परफोरमेन्स गारन्टी की राशि जब्त कर ली जायेगी एवं अनुबन्धानुसार अन्य कार्यवाही भी संपादित की जायेगी"।
- Note:** Amount of work performance guarantee shall be calculated as per the cost of Bid i.e. Rs-42.40 Cr.
31. In continuation of above (point no-30) work performance guarantee will be refunded as per UDH order no प-1(24)नविवि/1/2020 लूज जयपुर, दिनांक 20.09.2021 and rules thereto, the later shall prevail.

Signature of the Bidder
with address

Executive Engineer-Traffic Works-I,
JDA, Jaipur



राजस्थान सरकार
नगरीय विकास एवं आवासन विभाग

क्रमांक:- प.01(24)नविवि/1/2020 लूज

जयपुर, दिनांक:- 20 SEP 2021

आदेश

नगरीय विकास एवं आवासन विभाग के अर्न्तगत विभिन्न विकास कार्यों की निविदाओं में संवेदकों द्वारा बी.एस.आर. दर से कम दर डालने पर अन्तर राशि (AT PAR की दर से जितनी कम है) वर्क परफोरमेंस गारन्टी के रूप में कार्य प्रारम्भ करने से पूर्व ली जाएगी तथा इसे कार्य के सन्तोषजनक रूप से पूर्ण होने के पश्चात दोष निवारण अवधि में कार्य की स्थिति सन्तोषजनक पाए जाने पर, दोषनिवारण अवधि उपरान्त वापस लौटा दिया जावेगा। न्यूनतम दरदाता की बोली नियमानुसार स्वीकृत कर Letter of acceptance (LOA) जारी किया जावेगा एवं बी.एस.आर. दर से कम दर की अन्तर राशि की BG/FDR/NSC प्रस्तुत करने हेतु 14 दिवस का समय दिया जायेगा। अन्तर राशि जमा नहीं कराने पर BID SECURITY की राशि नियमानुसार जब्त कर ली जावे। यदि संवेदक वर्क परफोरमेंस गारन्टी राशि जमा कराने के पश्चात कार्य सन्तोषजनक रूप से पूर्ण नहीं करता है अथवा दोष निवारण अवधि में कार्य में खराबी होती है तो उसकी वर्क परफोरमेंस गारन्टी की राशि जब्त कर ली जावे एवं अनुबन्धानुसार अन्य कार्यवाही भी संपादित की जावे। यह आदेश तुरन्त प्रभाव से लागू किये जाते हैं। यह आदेश उन सभी निविदाओं पर लागू होगा जो कि भविष्य में जारी होगी तथा वे निविदाएं जो इस आदेश के जारी होने की दिनांक तक अप्राप्त हैं, इस सम्बन्ध में निविदा दस्तावेजों में आवश्यक संशोधन तुरन्त संबन्धित उपापन अधिकारी द्वारा किया जावे एवं नवीन सभी निविदाओं में उक्त शर्तों का समावेश किया जाना सुनिश्चित किया जावे।

यह आदेश सक्षम स्तर से अनुमोदित है।


(कुन्जीलाल मीना)
प्रमुख शासन सचिव
नगरीय विकास विभाग

कार्यालय का पता- खाद्य भवन, द्वितीय तल, कमरा नं० 7203, शासन सचिवालय, जयपुर-302005
ई-मेल आई.डी. CEUDHRAJASTHAN@GMAIL.COM



JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

Other Informations

1. DLP period of various nature of works amounting more than Rs. 25 Lacs will be as per order No.JDA/EX.En.(TA to DE-I)/2016/ D-29 dated 11.03.2016
2. निविदा में निर्धारित राशि से अधिक/कम Bid Security राशि बिडर द्वारा Online नहीं जमा कराई जावे, सिस्टम द्वारा भी कम/अधिक राशि बिड स्वीकार नहीं की जावेगी।
3. अलग-अलग समय में जमा कराई गई राशि सिस्टम द्वारा जोडकर एक बिड में स्वीकार नहीं की जावेगी।
4. एक यू.टी.आर. काम में लेने के पश्चात् पुनः उसी नम्बर का यू.टी.आर. सिस्टम द्वारा दूसरी बिड में प्रयुक्त नहीं किया जावे।
5. जविप्रा के आदेश क्रमांक डी-352 दिनांक 29.08.2018 के द्वारा निर्माण कार्यो के अनुबन्ध की धारा 45 के अन्तर्गत निविदा (दर संविदा) में मूल्य विचलन (PriceVariation) लागू नहीं होगा।

Signature of the Bidder
with address

Executive Engineer-Traffic Works-I
JDA, Jaipur



RTPP Annexure A: Compliance with the Code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid rigging or anticompetitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process;
- (e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of interest:-

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- (i) A bidder may be considered to be in conflict of interest with one or more parties in the bidding process if, including but not limited to:
 - (a) Have controlling partners/shareholders in common; or
 - (b) Receive or have received any direct or indirect subsidy from any of them; or
 - (c) Have the same legal representative for purposes of the bid; or
 - (d) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring Entity regarding the bidding process; or
 - (e) The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same sub bidder, not otherwise participating as a bidder, in more than one bid; or
 - (f) The bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods, works or services that are the subject of the Bid; or
 - (g) Bidder or any of its affiliates has been hired (or proposed to be hired) by the procuring entity as engineer-in-charge/consultant for the contract.



Signature of Bidder.

RTPP Annexure B: Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted tofor procurement of
.....in response to their Notice inviting Bids No.....Dated.....
I/wehereby declare under Section 7 of Rajasthan Transparency in Public
Procurement Act, 2012 that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entry;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the union and the state government or any local authority as specified in the Bidding Document.
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons.
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date :

Signature of Bidder

Place :

Name:-.....

Designation:-.....

Address:-



RTPP Annexure C: Grievance Redress during Procurement Process

The designation and address of the First Appellate Authority is Executive Committee of JDA.

The designation and address of the Second Appellate Authority is **ACS/Principal Secretary
UDH Govt. of Rajasthan.**

(1) Filing an appeal:-

if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or the guidelines issued there under, he may file an appeal to First Appellate authority, as specified in the Bidding document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a bidder as successful the appeal may be filed only by a bidder who has participated in procurement proceedings:

Provided further that in case a procuring entity evaluates the technical bids before the opening of the financial bids, an appeal related to the matter of financial bids may be filed only by a bidder whose technical bid is found to be acceptable.

(2) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall endeavor to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed by the first appellate authority, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to second appellate authority specified in the bidding document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the first appellate authority, as the case may be.

(4) Appeals not to lie in certain cases:-

No appeal shall lie against any decision of the procuring entity relating to the following matters, namely:-

- (a) Determination of need of procurement
- (b) Provisions limiting participation of bidders in the bid process
- (c) The decision of whether or not to enter into negotiations
- (d) Cancellation of a procurement process



(e) Applicability of the provisions of confidentiality

(5) From of Appeals:-

- (a) An appeal under Para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to first appellate authority or second appellate authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing Appeal:-

- (a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a scheduled bank in India payable in the name of appellate authority concerned.

(7) Procedure for disposal of Appeal:-

- (a) The first appellate authority or second appellate authority as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing
- (b) On the date fixed for hearing, the first appellate authority or second appellate authority, as the case may be shall-
 - (i) Hear all the parties to appeal present before him; and
 - (ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the appellate authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the state public procurement portal.

Signature of Bidder.



FORM No. 1

[see rule 83]

**Memorandum of Appeal under the Rajasthan
Transparency in Public procurement Act, 2012**

Appeal No..... of

Before the.....(First/Second Appellate authority)

- 1- Particulars of appellant :
 - (i) Name of the appellant:
 - (ii) Official address, if any:
 - (iii) Residential address:
 - 2- Name and address of the respondent(s):
 - (i)
 - (ii)
 - (iii)
 - 3- Number and date of the order appealed against and name and designation of the Office/authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:
 - 4- If the Appellant propose to be represented by a representative the name and postal address of the representative:
 - 5- Number of affidavits and documents enclosed with the appeal:
 - 6- Grounds of appeal :
(Supported by an affidavit)
 - 7- Prayer :
- Place :.....
- Date :

Appellant's Signature



RTPPAnnexure D: Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during evaluation of financial Bids on the following basis:

- (i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the procuring entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities.

- (i) At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased, by a specified percentage, but such increase or decrease shall not exceed fifty percent, of the quantity specified in the bidding documents. It shall be without any change in the unit prices or other terms and conditions of the bid and the conditions of contract.
- (ii) If the Procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding document due to change circumstances, the bidder shall not be entitled to any claim or compensation except otherwise provide in the conditions of contract.
- (iii) In case of procurement of goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 50% of the value of goods of the original contract and shall be within one month from the date of expiry of last supply. If the supplier fails to do so, the procuring entity shall be free to arrange for the balance supply by limited bidding or otherwise and the extra cost incurred shall be recovered from the supplier.



3. Dividing quantities among more than one bidder at the time of award (In case of procurement of Goods):-

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, then in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidder in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Signature of Bidder



JAIPUR DEVELOPMENT AUTHORITY JAIPUR

SPECIAL CONDITION OF THE CONTRACT FOR PRE QUALIFICATION OF CONTRACTORS

Name of work: Traffic Improvement and Beautification works at Jawahar circle, JDA, Jaipur.

Special conditions of contract for **PRE QUALIFICATION** as detailed here under, shall be applicable in addition to all other terms and condition already prescribed under standard agreement forms/rules and regulations to contract. These conditions are over and above all the conditions.

1. Procedure:

Procedure for PRE QUALIFICATION would be as follow:

- (a) Bid document shall be submitted online e-procurement website <http://www.eproc.rajasthan.gov.in> with digital signature certificate (DSC). The bid is to be submitted in 3 **envelops** which shall comprise of-
Envelope-1:Being for Registration, Bid Security Declaration form (on non-judicial stamp of Rs. 50/-), Bid document fee, Bid Processing Fee, GST Registration, latest GSTR-3B return for quarter/ Month ending June-2021
Envelope-2:Being for Technical Bid.
Envelope-3:Being for Financial Bid.
- (b) The technical bid will be opened only of those bidders who deposit cost of bid document, bid processing fee and submitted bid security declaration (on non-judicial stamp of Rs. 50/-).All the payments shall be accepted through online process only.
- (c) The Technical Bid envelope would be opened on the date 30.11.2021 at 11.30 A.M.in the chamber of Superintending Engineer-II,JDA, Jaipur Room No. 107, First floor, CCC Building, JDA, Jaipur.
- (d) The Financial Bid envelope would be opened only of those bidders who fulfill all the **PRE QUALIFICATION** criteria.
- (e) The bidder should be registered in “AA” class in JDA/ and AA or equivalent class in Any central Government Department/ State Government Department/ Local body/ Railways.

2. Qualification Criteria:

Criteria for PRE Qualification would be as follows:-

- (a) The bidder should have executed following quantities of work in any one of last seven financial year i.e. from 2014-15 to 2020-21, however he may include the work done of year 2021-22 also.



S. No.	Item	Quantity
1	RCC/PCC/Design Mix Concrete Work	3448.00Cum
2	Steel Reinforcement/ Structural Steel	234.00MT
3.	Stone Work (Flooring/cladding/monument work)	12192.00Sqm

Note:-

- (i) The Bidder should enclose the certificate having quantities financial year wise. Certificate not having financial year wise bifurcation will not consider.
 - (ii) Certificate issued by Govt. of India, State Govt., Union Territory and Govt. Undertakings, Autonomous Bodies shall only be considered issued by Ex. Engineer & above or equivalent.
 - (iii) The bidder should enclose the GST Registration and latest GSTR-3B return for quarter/ Month ending June-2021.
- (b) The bidder should have completed/executed at least one single Civil Engineering work of similar nature (ROB/RUB/Underpass/Subway/ monument/ building/ Street with beautification work in ornamental Architecture) in last Seven financial year (in addition to current financial year, if opted by the bidder) of value not less than ₹ 2500.00 lacs.(updated to present price level).

OR

The bidder should have completed/executed at least two single Civil Engineering work of similar nature (ROB/RUB/Underpass/Subway/ monument/ building/ Street with beautification work in ornamental Architecture) in last Seven financial year (in addition to current financial year, if opted by the bidder) of value not less than ₹ 1300.00 lacs. (updated to present price level).

OR

The bidder should have completed/executed at least three single Civil Engineering work of similar nature (ROB/RUB/Underpass/Subway/ monument/ building/ Street with beautification work in ornamental Architecture) in last Seven financial year (in addition to current financial year, if opted by the bidder) of value not less than ₹ 900.00 lacs. (updated to present price level).

Note:-

- (i) The starting & completion date of the work is to be in between above said financial year. If no, then maximum work (not less than 70%) is to be completed/executed in above said financial year.
 - (ii) If bidder submits certificate having different components / nature of work then proper completion certificate of required similar nature component is to be enclosed.
 - (iii) “Civil Engineering Work Of Similar Nature” would mean Construction of (ROB/RUB/Underpass/Subway/ monument/ building/ Street with beautification work in ornamental Architecture)
- (c) The bidder should have achieved an annual financial turnover of at least 60% (₹ 2544.05.lacs.) of the estimated cost of the work in any one of last Seven financial years (including current year, if opted by the bidder)

Note:-



- (i) The bidder should enclose certificate of Turn over from Chartered Accountant for last seven financial years & audited balance sheet of the year which is considered by the bidder in criteria 2 (c).
- (ii) If current year or last year has been opted by bidder whose balance sheet is not submitted till the submission of bid then certificate from Chartered Accountant should be enclosed.
- (d) The bidder should give Affidavit to deploy the machinery and equipment as specified in Schedule– III, for the execution of this work.
- (e) Bid Capacity: Bidders who meet the minimum qualification criteria will be qualified only if available bid capacity is equal to or more than the total Bid value.

The available bid capacity will be calculated as under:

$$\text{Bid Capacity} = (A \times N \times 3 - B)$$

Where

- A = Maximum value of civil engineering works executed in any one year during the last seven financial years (updated to present Price level) taking in to account the completed as well as works in progress. However, the bidder may opt current year in the seven year assessment period.
- N = Number of year prescribed for completion of the work for which bids are invited. In present case value of N shall be 1.0
- B = Value, at present price level of existing commitments and ongoing works to be executed during 'N' period (period prescribed for completion of the works for which the bids are invited)

Note:-

- (f) Certificate from Chartered Accountant should be enclosed by bidder clearly indicated maximum value of Civil Engineering Work in one Financial Year.
- (g) **Litigation History:** - Bidder should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution by him over the last seven years. The maximum value (updated at the present price level) of disputed amount claimed in the litigation/arbitration resulting from contracts executed in last seven years shall be deducted from the calculated Bid Capacity of the bidder. The details shall be furnished in Schedule VI.

Note:-

- (i) The present price level for turnover, cost of completed work & disputed amount of similar nature, the previous year's value shall be given weightage of 10% per year as follows :-

(a)	For Current Year	(2021-22)	1.00
(b)	For last year	(2020-21)	1.00
(c)	For one year before	(2019-20)	1.10
(d)	For two year before	(2018-19)	1.21
(e)	For three year before	(2017-18)	1.33
(f)	For four year before	(2016-17)	1.46
(g)	For five year before	(2015-16)	1.60
(h)	For six year before	(2014-15)	1.76



3. Documentation:

The bidder should furnish the following documents along with the technical bid:

- (a) Information regarding financial resources and capability in Schedule –I.
- (b) Information regarding works executed in the last Seven years in Schedule–II
- (c) Certificates from the concerned Engineer–In–Charge in support and verification of the information furnished in Schedule–II
- (d) Affidavit regarding machinery and equipment required for deployment, as detailed in scheduled – III.
- (e) Information regarding details of maximum value of civil engineering works executed in any one year during the last Seven years taking into account the completed as well as works in progress in schedule – IV.
- (f) Information regarding existing commitments and ongoing works to be completed in schedule – V.
- (g) Information regarding details of litigation or arbitration contracts to be furnished in schedule – VI.
- (h) Calculation of Bid capacity in schedule – VII.
- (i) Information regarding technical staff to be furnished in Schedule-VIII
- (j) Affidavit as per Annexure I.
- (k) Self-Declaration Certificate as per format.
- (l) Undertaking for not to be blacklisted- Annexure-2
- (m) RTPP Annexure A, B, C, D duly signed and uploaded by bidder.
- (n) The Bidder should submit / upload the complete Bid document available on the portal

4. Important Notes:

- (a) The bidder must ensure that all the information required in the Documents is furnished by him complete in all respects. He would not be allowed to withdraw any document, or to rectify any information furnished therein, after submitting the bid.
- (b) The bidder should give an affidavit that the information furnished in schedule I to VIII is correct. If any information is found incorrect, the offer of the bidder shall be rejected and action be taken as per rules.
- (c) Bidders must do paging of all enclosure of bid documents.



5. Rejection of bids

The department reserves the rights to reject any bid or to disqualify any or all the bidders, without assigning any reasons at any stage.

- I. If Bid is not accompanied with the requisite documents mentioned in clauses 3 (a) to 3 (m) or is not in accordance with procedure specified in Para 1, or is not accompanied with Bid security declaration, GST Registration, latest GSTR-3B return for quarter/ Month ending June-2021 and registration of bidder in required category it would be liable for rejection.
- II. Furnishing of incorrect or incomplete or concealment of any information required in the bid documents would render the bid liable for rejection.
- III. The Bidder should submit / upload the complete Bid document available on the portal failing which the bid liable for rejection.

6. Eligibility

- i) The bid for this contract will be considered only from those bidders (proprietorship firms, partnership firms, companies, corporations,) who meet requisite qualification criteria prescribed.
- ii) Bidders shall not have conflict of interest. All bidders to have a conflict of interest in this bid shall be disqualified. Bidders shall be considered to have a conflict of interest if:
 - a) One firm applies for bid both as an individual firm and in a group.
 - b) If bidders in two different applications have controlling shareholders in common.
 - c) Submit more than one application in this bid process.
 - d) If the bidder has participated as a consultant or it has more than 50% stake in consultant engaged in the preparation of the design or technical specification of the works that are subject to this bid.
 - e) A firm which has purchased the bid documents in their name can submit the bid as an individual firm only,
 - f) Bidders must not have been black listed or deregistered by any Central/ State Government department or Public Sector Undertaking. Also no work of the bidder must have been rescinded by client after award of contract during last 10 years. The bidder should submit undertaking on Non Judicial stamp of Rs.10/- to this effect in the Performa of **Annexure 2**.
- iii) A firm shall submit only one bid either by himself. If a firm submits more than one bid by himself all the bids in which he has participated shall be considered invalid.
- iv) All the bidders shall submit with his bid, general information about the bidder in prescribed Performa of (Annexure 3 with full details of his ownership and control.
- v) To qualify for award of contract, the bidders shall submit a written power of attorney authorizing the signatory (ies) of the bid to commit the bidder. In case of foreign members, power of attorney(s) and board resolution confirming authority on the persons issuing the power of attorney for such actions, shall be submitted duly notarized by the notary public in the country of origin and stamped by the Indian Embassy/ High Commission.



- vi) Cancellation, modification or creation of a document such as power of attorney, partnership deed, constitution of firm etc., which may have bearing on the bid / contract, shall be communicated forthwith in writing by the bidder to the Engineer-in-charge or Employer.
- vii) The bidder should confirm and declare that in the bid submitted that they, or any associate have not engaged in any fraudulent and corrupt practice and that no agent, middleman, or any intermediary has been, or will be, engaged to provide any services, or any other items of work related to the award of this contract.

Note: No Joint Venture is allowed in this Bid.

7. Bid Evaluation Sheet:--

The contractor has to submit on line, duly filled Bid Evaluation Sheet in the prescribed form given as **Annexure 3**. For this purpose the bidder should mark page numbers on all the documents being uploaded by him in support of the bid and mention carefully the relevant page number in the Bid Evaluation Sheet. Any unwanted pages should not be uploaded. Only the page number mentioned by the bidder in the respective column No 5 of the Bid Evaluation sheet will be considered for evaluation of the bid.

**Executive Engineer-Traffic Works-I
JDA, Jaipur**



Schedule – I

FINANCIAL RESOURCES AND CAPABILITY

[Reference clause 3 (a)]

1. Name of Bidder: - M/s.....
2. Total financial turnover achieved by the bidder in the last seven financial years:

S.No.	Year	Turnover
(1)	2021-22	
(2)	2020-21	
(3)	2019-20	
(4)	2018-19	
(5)	2017-18	
(6)	2016-17	
(7)	2015-16	
(8)	2014-15	

Note: Balance Sheets and Profit & Loss Accounts is to be enclosed by the bidder which is considered by him as per criteria 2 (a).

3. Total financial Turnover projected in the current financial year
4. Has the bidder ever been debarred from bidding for Central Government/State Government/any Government undertaking?
Yes / No, if yes give details.
5. Has bidder ever been declared insolvent?
Yes/No, if yes give details.
6. Name(s) and Address of Branch/(s) for bidder's Bankers.

I/We hereby certify that the above information is correct to the best of my/our knowledge and belief.

Signature of Bidder

Date :

(With Seal wherever applicable)



SCHEDULE – II

[Reference clause 3(b)]

Details of Quantities of work executed during last Seven financial years

S. No.	Name of Works (With agreement No. & Date)	Client	Place (district)	Financial Year	Principal Items of work			Page No.
					RCC/PCC/ Design Mix Concrete Work	Steel Reinforcement/ Structural Steel	Stone Work (Flooring/claddi ng/monument work)	

Signature of Bidder

Note: Certificate from concerned Engineer-in-Charge should be enclosed in support and verification of the above statement.



To be given on Non-Judicial stamp
Paper of Rs. 10/- only, duly attested by
Oath-Commissioner/Notary Public

SCHEDULE – III
[Reference Clause 3(d)]

AFFIDAVIT

I/We Proprietor/Partner/Authorized signatory of M/s
..... under take the oath that I/We will deploy the
machinery and equipment listed below as and when required in the execution of this work.

S. No.	Name of Machinery	Minimum Requirement	availability		
			Owned	Leased	Hired
1	Computerized Batch Mix Concrete plant minimum 30 Cum/Hr capacity (Owned/Lease)	1			
2	Transit Mixers (TM) (Owned/Lease)	2			
3	Poklain (Owned/Lease)	1			
4	Hydra 20 T (Owned/Lease)	1			
5	JCB (Owned/Lease)	1			
6	Dumper (Owned/Lease)	2			
7	Vibrator (Needle, Plate & screed) (Owned/Lease)	4			
8	Water Tanker (Owned/Lease)	2			
9	Concrete Pump (Owned/Lease)	1			

I/We hereby certify that the above information is correct to the best of my/our knowledge and belief.

Date:

Signature of Bidder
(With seal)

SCHEDULE - IV

[Reference Clause 3(e)]

DETAILS OF MAXIMUM VALUE CIVIL ENGINEERING WORKS EXECUTED IN ANY ONE YEAR DURING THE LAST SEVEN YEARS TAKING INTO ACCOUNT THE COMPLETED AS WELL AS WORKS IN PROGRESS

S. No.	Name of Works (with agreement No. & Date)	Client	Place (district / state)	Financial Year	Cost of Work as per Work Order	Stipulated date of commencement	Stipulated date of completion	Value of work done during the year

Signature of Bidder



SCHEDULE - V

[Reference Clause 3(f)]

DETAILS OF EXISTING COMMITMENTS & ON GOING WORKS TO BE COMPLETED

S. No.	Name of Works (With agreement No. & Date)	Client	Cost of Work as per Work Order	Stipulated date of commencement	Stipulated date of completion	Value of balance work on date of bid	Likely date of completion of balance work

Signature of Bidder



SCHEDULE - VI

[Reference Clause 3(g)]

DETAILS OF LITIGATION OR ARBITRATION CONTRACTS

S. No.	Name of Works (with agreement No. & Date)	Client	Work Order Amount	Disputed Amount Claimed in Litigation / Arbitration	Date of Raising Disputed Amount	Actual Award Amount, if the case is Decided	Cause of Litigation & matter in Dispute

Signature of Bidder



SCHEDULE –VII

[Reference Clause 3(h)]

BID CAPACITY

Name of Bidder: - _____

1.	A = Maximum value of civil engineering worksexecuted in any one year during the last seven financial years (updated to present Price level) taking in to account the completed as well as works in progress	_____Lacs	Certified details enclosed at Page No. _____
2.	N = Number of years prescribed for completion of the Work for which bids are invited	1.0	
3.	B = Value, at present price level of existing Commitments and ongoing works to be Completed during the next N Period.	_____Lacs	Certified details enclosed at Page No. _____

Bid Capacity = A x N x 3 - B

= _____ Lacs

Signature of Bidder



SCHEDULE – VIII

[Reference Clause 3(j)]

INFORMATION REGARDING TECHNICAL STAFF ON PAYROLL OF THE CONTRACTOR SINCE LAST ONE YEAR

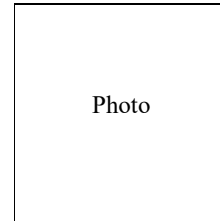
Name of bidder: -

S. No.	Name	Designation	Technical Qualification	Month and year of Joining The contractor



ANNEXURE-I
(Reference Clause 3(i))

To be given self-declaration,
duly self attested



AFFIDAVIT

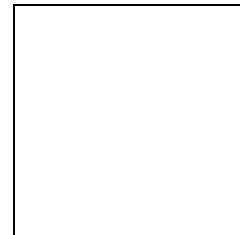
I/We.....S/O Shri.....
Age.....Year, Resident
.....of.....District..... Rajasthan
Proprietor/ Partner/ Authorize signatory of M/s
hereby declare that the information furnished by me/us in schedule I to VIII of the assessment Bid
for the work **Traffic Improvement and Beautification works at Jawahar circle, JDA, Jaipur,**
Rajasthan correct to the best of my/our knowledge and belief and nothing has been concealed
therein. I am well aware of the fact that If the information given by me is proved false/not true, I
will have to face the punishment as per the law. Also all the benefits availed by me shall be
summarily withdrawn and JDA has right to reject the Bid and to take action against me/us as per
rules.

Enclose: I.D. proof with self-declaration

.....
Proprietor/ Partner/ Authorized signatory
M/s
.....



To be given by bidder, if Tender Documents and Affidavit submitted by Self Attested



SELF-DECLARATION

I/We..... S/O Shri..... Age.....
Year, Resident of..... District.....
Rajasthan, hereby declare that the information given above and in the enclosed documents is true to
the best of my knowledge and belief and nothing has been concealed therein. I am well aware of
the fact that if the information given by me is proved false/not true, I will have to face the
punishment as per the law. Also, all the benefits availed by me shall be summarily withdrawn.

Proprietor/ Partner/ Authorized signatory

M/s
.....



Annexure-2

(Refer clause 6,(ii),f, of Special Conditions of Contract)

UNDERTAKING FOR NOT BLACKLISTED
(On a Non Judicial Stamp of Rs 10/- and duly attested by Notary Public)

We do hereby undertake that we have not been Blacklisted or Deregistered by any Central/ State Government or Public Sector Undertaking, Autonomous Bodies etc., and also that none of our work has rescinded by the client after award of contract during last 10 years.

Stamp and Signature of Authorized Signatory

Note:

1. The undertaking shall be signed by authorized signatory of the bidder.



Form of Bid-Securing Declaration

Date :
Bid No. :
Alternative No. :

To :

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration. We accept that we are required to pay the bid security amount specified in the Term and Condition of Bid, in the following cases, namely :-

- (a) when we withdraw or modify our bid after opening of bids;
- (b) when we do not execute the agreement, if any, after placement of supply/work order within the specified period;
- (c) when we fail to commence the supply of the goods or service or execute work as per supply/work order within the time specified;
- (d) when we do not deposit the performance security within specified period after the supply/work order is placed; and
- (e) if we breach any provision of code of integrity prescribed for bidding specified in the Act and Chapter VI of these rules.

In addition to above, the State Government shall debar us from participating in any procurement process undertaken for a period not exceeding three years in case where the entire bid security or any part thereof is required to be forfeited by procuring entity.

We understand this Bid Securing Declaration shall expire if :-

- (i) we are not the successful Bidder;
- (ii) the execution of agreement for procurement and performance security is furnished by us in case we are successful bidder;
- (iii) thirty days after the expiration of our Bid.
- (iv) the cancellation of the procurement process; or
- (v) the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

Signed : _____

Name : _____

In the capacity of : _____

Duly authorized to sign the bid for and on behalf of :

Dated on _____ day of _____

Corporate Seal _____

[Note: In case of a Joint Venture, the Bid Securing Declaration must be signed in name of all partners of the Joint Venture that is submitting the bid.]



ANNEXURE 3

(Refer Clause 7)

Bid Evaluation Sheet

Name of Work:-Traffic Improvement and Beautification works at
Jawahar circle, JDA, Jaipur

S.No.	Criteria	Required Qualification	Bidders qualification	Bidders uploaded document Page No.	Remark
1	2	3	4	5	6
1	Registration Certificate - As per Clause 1e of Special Conditions of Contract for Pre Qualification.	The bidder should have a valid Registration Certificate in AA Category as specified. AA class in JDA or AA class or equivalent class in other department.			
2	GST Registration, latest GSTR-3B return for quarter/ Month ending June-2021- As per Clause 2-a-(iii) of Special Conditions of Contract for Pre Qualification.	latest GSTR-3B return for quarter/ Month ending June-2021			
3	Fee Payment Details				
(i)	Cost of Bid Document	Rs.5000			
(ii)	Bid Processing Fee	Rs. 1000			
(iii)	Bid Security Declaration form				
4	The bidder should have executed following quantities of work in any one financial year of the last Seven financial years. As per Clause 2a of Special Conditions of Contract for Pre Qualification.				
I	RCC/ PCC/ Design Mix concrete work				
A	Year of execution				
B	Quantity executed				
II	Steel Reinforcement / Structural Steel				
A	Year of execution				
B	Quantity executed				



III	Stone work Flooring/cladding/monument work				
A	Year of execution				
B	Quantity executed				
5	The bidder should have completed at least one similar nature work in last Seven financial years (including current year, if opted by the bidder) of value as specified under Clause 2(b) of Special Conditions. Or The bidder should have completed at least two single similar nature work in last Seven financial years (including current year, if opted by the bidder) of value as specified under Clause 2(b) of Special Conditions. Or The bidder should have completed at least three single similar nature work in last Seven financial years (including current year, if opted by the bidder) of value as specified under Clause 2(b) of Special Conditions.				
A	Value of work executed				
B	Financial year				
6	The bidder should have achieved an annual financial turnover of at least 60 % of the estimated Cost of the work (bid cost) in any one of last Seven financial years (including current year, if opted by the bidder). As per Clause 2(c) of Special Condition				
A	Annual Turn over				
B	Financial Year				
7	Affidavit to deploy machinery and equipment as specified in Schedule -III, As per Clause 2d of Special Conditions.				
8	Bid Capacity=(A x N x 3 - B) As per Clause 2e of Special Conditions.				
(i)	A= Maximum value of civil engineering works executed in any one year during the last seven financial years.				
(ii)	N= 1.0 years				



(iii)	B=Value at present price level of existing commitments and ongoing works to be executed during "N" period.				
9	Litigation History- As per Clause 2 (g) of Special Conditions.				
10	Affidavit for Correctness of documents Clause 3(j)				
11	Declaration by bidder under RTTP Act. (Annexure A, B, C, D)				
12	Undertaking for not being black listed.				
13.	Information regarding technical staff to be furnished in Schedule-VIII				

Signature of Bidder with Seal



Special Conditions of Contract regarding Defect Liability Period (DLP) for Various works costing Rs. 25.00 Lacs and more

1. ROAD WORKS

- 1.1 The Defect Liability Period (DLP) for all Road works excluding patch repair work shall be as per table-1. Road works executed by the Contracting agency shall be maintained by them at their own cost for Schedule as per table-1 (DLP) from the actual date of completion of work as per the clause in the Contract Agreement and Special Condition of Contract.
- 1.2 No extra payment shall be made to the contracting agency on account of maintenance of Road works and removal of defect during Defect Liability Period.
- 1.3 The word "Road Works" means all new Road Works construction, strengthening and renewal works.
- 1.4 The word "Maintenance of Road Works during Defect Liability Period" means
 - (i) Routine maintenance of Road Works,
 - (ii) To remove the defect as & when appear in part and entire structure of Road Works, in specified time and keeping the Road Surface with good riding quality and
 - (iii) Damages due to improper drainage / drains, local flooding, depressions on roads etc.
- 1.5 The contracting agency shall do the routine maintenance of Road works, including pavement, road side and cross drains including surface drains to the required standards and keep the entire road surface and structure in Defect free conditions during the entire period of routine maintenance, which begins at completion of the construction work and ends after Schedule as per table-1.
- 1.6 The routine maintenance shall consist of the routine maintenance operation defined in manual for maintenance of roads of MoRTH and shall be carried out accordingly.

1.7 (a) The routine maintenance activities and their periodicity as per JDA Office order no: JDA/Ex.En.(TA to DirEngg.-I)/2016/D-29 dated 11.03.2016

Table-I

S.No.	Type of work	DLP Period
1	Bridge work	5 Years
2	CD work	5 Years
3	CC road, PQC work	5 Years
4	CC tiles/Kerb/ Medians	5 Years
5	Drains	3 Years
6	Roads	
	(i) Two Layer WBM/GSB	6 Months or one full rainy season whichever is later
	(ii) For Renewal/Strengthening	
	(a) BT upto 30 mm thickness	1 Year
	(b) BT above 30 mm to upto 40 mm	2 Years
	(c) BT above 40 mm to upto 90 mm	3 Years
	(d) BT above 90 mm	5 Years
	(iii) New roads	
	(a) BT upto 90 mm	3 Years
	(b) BT more than 90 mm	5 Years
7	Compound wall	3 Years
8	Building work	
	(i) Work pertaining to sanitary works electrical works, Joinery works and painting works.	2 Years
	(ii) Work pertaining to building structure and other civil works.	5 Years
9	Electric work except maintenance	3 Years
10	Sewer/water supply all including STP and water supply related work except maintenance works	3 Years

1.7 (b) The routine maintenance activities and their periodicity

S.No.	Name of Item/Activity	Frequency of operations in one year
1	Restoration of rain cuts and dressing of berms.	Once in a year, generally after rains.



2	Making up of shoulders.	As and when required.
3	Maintenance of Bituminous surface road and/or gravel road/WBM road including filling pot holes and patch repairs etc.	As and when required.
4	Insurance of proper functioning of drains including civil maintenance and desilting of drains. (If constructed by the same Road agency or not)	As and when required.
5	Maintenance of road signs. (If installed by the same Road agency)	Maintenance as and when required. Repainting <u>once in every one and half years.</u>
6	Road Marking, Kerb Stone/Dand. (If done by the same Road agency)	Thermoplastic Paint Maintenance as and when required. Repainting <u>once in every one and half years.</u> Ordinary Paint Maintenance as and when required. Repainting <u>thrice in every years.</u>
7	Damages beyond control of agency.	Road cuts made by various agencies for utility, duly permitted by JDA / JNN will have to be repaired by agency on the same rates of the contract agreement till DLP.

2. **General**

2.1 **Inspection of works during Defect Liability Period**

- 2.1.1 The contracting agency shall undertake joint detailed inspection along with Engineer-in-charge/A.En., at least once in three months in case of all Road works. The Engineer-in-charge can reduce this frequency in case of emergency. The Contracting agency shall forward to the Engineer-in-charge the record of inspection and rectification immediately after the joint inspection. The Contracting agency shall pay particulars attention on those road sections, which are likely to be damaged during rainy season.
- 2.1.2 One register has to be maintained by every A.E.n for recording the inspection details of works in his jurisdiction under defect liability period.

2.2 **Conditions regarding Security Deposit**

2.2.1 **Security for DLP-**

The contracting agency shall have to furnish security deposit (SD) in the form of Bank Guarantee valid from the actual date of completion, which shall be assigned by the Engineer-in-charge.

2.2.2 **Refund of SD –**

The release of SD amount shall be as following table:-

S.No.	Released SD DLP period	1 st year	2 nd year	3 rd year	5 th year
1	Upto 1 year	100 %	40 %	20 %	10 %
2	Upto 2 Year		60 %	20 %	10 %
3	Upto 3 Year			60 %	10 %
4	Upto 4 Year				20 %
5	Upto 5 Year				50 %

Various conditions for managing DLP are as under:-

- At the time of completion of work, final component shall be worked out for each individual item like BT/CC /tiles/drains etc (as per different categories in Table I), DLP shall be operative based upon type of individual item ex:- CC-5 years, BT- 1/2/3/5 years, Drain- 3 years etc.
- Similarly for all new works, these components should be calculated at the time of TS itself, which should be made part of BID document.
- If any work, amount is less than Rs. 25 lakhs but later on due to extra/excess work, if amount of final work crosses more than Rs. 25 lakhs, DLP shall be operative as per rule for each individual item.
- Similarly if any work is more than Rs. 25 lakhs but later finalization amount of work is less than Rs. 25 lakhs, DLP should be operative for six months or rainy season whichever is late.



- (v) During DLP period if contractor fails to repair any work even after issue of 7 days written notice, same work shall be got executed by respective Executive Engineer at the contractor's risk and cost. This process shall be applicable throughout the DLP period. After completion of DLP period in such works contractor should be debarred and blacklisted from JDA for three years as per RTPP Rule 2012 and 2013 where he defaults twice in a single agreement or in two different works.
- (vi) Quarterly inspection as per rules shall be carried out and DLP registers shall be maintained by respective Executive Engineers to monitor the DLP repairs.
- (vii) Special and regular inspection shall also be carried out as per order no. JDA/Ex.En& TA to DE-I/ 2014-15/D-223 dated 12.03.2015 and order no. SE (PMGSY) CIRCULAR 2006/D-115 dated 04.05.2006 point no. 3
- (viii) In case JDA feels to take up work on any existing DLP road due to any reason, following procedure should be adopted.
 - (a) At the time of withdrawal total liability of repairs as per DLP conditions to be carried out and contractor shall be asked to complete the same. After completion of assessed repairs DLP period shall be released after deduction amt. as per table III.

% recovery on withdrawal of DLP of work order	1 Year	2 Year	3 Year	4 Year	5 Year
DLP period					
1 Year	1.12	-	-	-	-
2 Year	2.55	1.43	-	-	-
3 Year	4.38	3.26	1.83	-	-
5 Year	9.00	7.88	6.45	4.62	2.47

Note :- Calculation is to be done on quarterly basis.

- (b) In case Contractor fails to carry out these repairs, same shall be carried out at his risk and cost. If the total amt. of such repairs works out to be more than total retained amt. of SD, same shall be recovered from other works and as per PDR rules. The amount as per Table-III is also to be deducted in addition to this amount.
- (c) Based upon type of work, DLP conditions for works to be carried out during DLP period with their frequency of respective type of work shall be prepared by respective SE's after approval of these periods.

2.2.3 Force Majeure

The defect arises due to earthquake, cyclone, and natural calamities shall not be the responsibility of contracting agency.

Signature of the Bidder
with address

Executive Engineer-Traffic Works-I,
JDA, Jaipur



Jaipur Development Authority Jaipur

FINANCIAL BID DOCUMENT

Name of Work: “Traffic Improvement and Beautification works at
Jawahar Circle, JDA, Jaipur, Rajasthan.

VOLUME - I

GENERAL INFORMATION

**Executive Engineer –Traffic Works-I
Jaipur Development Authority
Jaipur**



INDEX- VOLUME-I

SECTION	DESCRIPTION	PAGE NO
SECTION-1	INSTRUCTIONS TO BIDDERS	47-60
SECTION-2	GENERAL CONDITIONS OF CONTRACT	61-115
SECTION-3	OTHER CONDITIONS OF CONTRACT	116-135
SECTION-4	TECHNICAL SPECIFICATIONS	136-161
SECTION-5	FORM OF AGREEMENT	162-164
SECTION-6	BANK GUARANTEE	165-167
SECTION-7	CONDITIONS OF CONTRACT ON SAFETY, HEALTH AND ENVIRONMENT (SHE)	168-202
SECTION-8	DRAWINGS	



SECTION – 1

(Instructions to Bidders)



SECTION – 1 INSTRUCTIONS TO BIDDERS

1.1 SCOPE OF WORK

1.1.1 **Percentage Rate Bids** are invited from eligible contractors for the

Name of work : Traffic Solutions and Beautification Work at Jawahar Circle, Jaipur, Rajasthan.

(hereinafter referred to as the “Contract Work”).

1.1.2 The Work shall include the Traffic Solutions and Beautification Work at Jawahar Circle, Jaipur, Rajasthan with electrification, Monument Lighting, horticulture, fountain work etc based on departmental design and will include:

A) Construction of Subways, Monument and Driveway area (Driveway, parking space, Cycle track and Walkway):

- Site clearance
- True and proper setting out and layout of the work, providing location marks, bench marks, preparation of reports and plans
- **Construction of Subways**
 - Excavation up to the founding level of base slab.
 - Raft foundation for Subways
 - Construction of RCC Retaining Walls for subway and ramps.
 - Brick work, plaster and painting work in subway shops.
 - Jodhpur Stone Cladding work on subway and ramp wall.
 - Granite flooring with combination of different colors in subway flooring and cadappa cobble stone for ramp flooring.
 - Jodhpur stone Stone Railing and S.S. Railing.
 - Providing Drainage Arrangement.
- **Construction of Monument & Chatri:-**
 - Miniature model of the Monument
 - Excavation up to the founding level of base slab.
 - Raft foundation and construction of RCC structure for monument.
 - Super White Marble Stone cladding on monument
 - Construction of Chattri with Super White Marble Stone and Jodhpur stone.
 - Stone Railings, Bench with Super White Marble Stone.
- **Construction of Road, Driveway, Cycle Track and Walkway.**
 - Construction of Parking and Driveway with black Caddapa Coble Stone.
 - Cycle track with concrete.
 - Renewal of existing footpath with new concrete kerb and granite flooring.
 - New concrete kerb with special design at Medians.



- Construction of Rubberized joggers track
- Signages, Road Furnitures, thermoplastic lane marking on road surface and painting of existing railings etc.
- Construction/ Improvement of junction/ intersection as per design
- Construction of Rain water Harvesting system.

- **Electrification and Illumination work**
- **PA system as per design**
- **IT Related Work**
- **Landscaping work around the Jawahar Circle**

B) Miscellaneous:

- Submission of monthly progress photograph prints 165 X 215 mm (2 sets) and soft copy as directed in external hard disks;
- All aspects of quality assurance (including test loading) for various components of the work as specified or as directed;
- Clearing of Site and handing over of the works, as specified or as directed;
- Submission of detailed programme showing the sequence of activities, method of construction, details of constructional plant and equipment, with which the bidder proposes to carry out the entire work, as shown in the relevant drawings and as specified.,
- Detail project planning programme is to be given by using Prima Vera/ MS Project software on fortnightly basis.
- Furnishing of all requisite particulars as stated above in Para 2.1.2 (a) substantiated with detailed design calculation for each constructional stage and its effect on substructure and foundation on the basis of departmental design;
- Any other work required to be carried out to complete the works in all respects in accordance with the provisions of the contract and / or as directed by the Engineer in Charge ensuring structural stability and safety during and after construction even though not specifically mentioned in the contract but reasonably implied as necessary for successful implementation of the contract.

1.2 COST OF BID DOCUMENTS, BID PROCESSING FEE AND BID SECURITY

The bidder shall bear all costs associated with the preparation and submission of the bids for the works and Director (Engineering-II), Jaipur Development Authority will, in no case, be responsible or liable for any such costs, regardless of the conduct or outcome of the bid process.

1.2.1 Process for participation & Depositing Payment Online

Jaipur Development Authority, has decided to receive Bidding document fee, RISL Processing Fee through online mode only for which the bidder has to get registered himself on JDA portal www.jda.urban.rajasthan.gov.in

To participate in the bid, bidder has to be:



1. Registered on JDA website www.jda.urban.rajasthan.gov.in (by depositing Rs.500.00 online, the validity of which remains 3 (three) years.)
For participating in the Bid, the Bidder has to apply for this Bid and pay the bid Document Fee, RISL Processing Fee and Bid Security Deposit online only.
2. Registered on e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in for online e-Bid submission.

Methods for depositing online amount.

- Online through internet Banking, Debit card or Credit Card.
- In case the amount exceeds the online payment limit, the payment may be made through RTGS/NEFT/Transfer in Bank Account Number **675401700586** IFSC Code **ICIC0006754** of ICICI Bank limited, JDA Campus Jaipur.

In Case of RTGS/NEFT/Transfer the bidder is required to deposit the requisite amount in the dedicated bank account number as mentioned above and has to get the UTR/ Reference number from the bank. This number requires to be updated while applying the bid on JDA portal.

While participation in the bid, a receipt will be generated through the system showing the submission details as per Annexure-4. The bidder is required to fill the instrument numbers for various heads on e-procurement portal www.eproc.rajasthan.gov.in as mentioned in the receipt.

More details about Registration Process, Terms and Conditions and FAQ along with contact details is available on JDA website www.jaipurjda.org under e-Services>>JDA tender.

NOTE :

JDA will not be responsible for delay in online submission due to any reason. To avoid this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed, chocking of web site due to heavy load or any other unforeseen problems.

1.3 SITE VISIT

- 1.3.1 The bidder shall, prior to submitting his bid for the work, visit and examine the Site of works and its surroundings at his own expense and obtain and ascertain for himself on his own responsibility all information that may be necessary for preparing his bid and entering into a Contract - including, the actual conditions regarding the nature and conditions of site, availability of materials, labour, probable sites for labour camps, stores, etc., and the extent of lead and lift required for the work in complete form over the entire duration of the Contract after taking into consideration local conditions, traffic restrictions, obstructions in work, if any, and allow for all expenses likely to be incurred due to any such conditions, restrictions, obstructions, etc., in the quoted Contract price for the work.



1.3.2 A bidder shall be deemed to have full knowledge of the site, whether he inspects it or not, and no extra charges consequent on any misunderstanding or otherwise shall be allowed.

1.3.3 The bidder and any of his personnel or agents will be granted permission by the Director (Engineering-II) or his authorized nominee, on receipt of formal application in respect thereof a week in advance of the proposed date of inspection of site, to enter upon his premises and lands for purpose of such inspection, but only on the express condition that the Bidder, his personnel or agents, will release and indemnify, the Employer and his personnel and agents from and against all liability in respect thereof and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expenses however caused which, but for the exercise of such permission, would not have arisen.

1.4 CONTENTS OF BID DOCUMENTS

1.4.1 The set of Bid Documents issued for the purpose of bidding shall comprise the following :

SECTION	DESCRIPTION
SECTION-1	INSTRUCTIONS TO BIDDERS
SECTION-2	GENERAL CONDITIONS OF CONTRACT
SECTION-3	OTHER CONDITIONS OF CONTRACT
SECTION-4	TECHNICAL SPECIFICATIONS
SECTION-5	FORM OF AGREEMENT
SECTION-6	BANK GAURANTEE
SECTION-7	CONDITIONS OF CONTRACT FOR SAFETY, HEALTH AND ENVIRONMENT (SHE)
SECTION-8	DRAWINGS

1.4.2 The bidder is expected to examine carefully all instructions, conditions, forms, terms, and performance specification and drawings in the Bid Documents. Failure to with the requirements of Bid submission shall be at the Bidder's own risk. Pursuant to clause 1.18, bids which are not substantially responsive to the requirements of the Bid documents shall be summarily rejected.

1.4.3 At any time prior to the last date for submission of bids, the employer may, for any reason whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bid Documents by the issuance of an Addendum.



- 1.4.4 The Addendum will be prepared in writing and uploaded on E- Tendering portal for information of all prospective Bidder who wish to participate, and will be binding upon them, irrespective of whether the prospective bidder acknowledge receipt of the same or not.
- 1.4.5 The forms, Bill of Quantities, Performa and schedules provided in these Bid Documents shall be filled without exception (subject to extensions of the schedule in the same format).
- 1.4.6 The bid prepared by the bidder, and all correspondence and documents relating to the bid exchanged by the Bidder and the Employer, shall be written in the English language only. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied with an appropriate translation of pertinent passages in English language. For the purpose of interpretation of the Bid, the English language shall prevail.

1.5 BID PRICES

- 1.5.1 Unless explicitly stated otherwise in the Bid Documents, the contract shall be for the whole work based on the departmental design, Bill of quantities, rates and prices submitted by the Bidder.
- 1.5.2 The Bidder shall fill in **rates on percentage above/below for items of schedule "G" i.e. BSR items and the bidder shall quote rate for each Non BSR item as detailed in BOQ** in both figures and words. In case, there is any discrepancy in the rates quoted in figures and words, the rate quoted in words will be applicable.

If on check there are discrepancies the following procedure shall be followed:-

- (i) Where there is a difference between the rates in figures and words, lower of the two rates shall be taken as valid and correct rate.
- (ii) When the rate quoted by the contractor in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount worked out.
- (iii) While quoting rates, if rate/rates against any item or items are found to be omitted, the rate given in the Schedule 'G' by the department for such items will be taken into account while preparing comparative statement and contractor shall be bound to execute such item on 'G' Schedule rates.

In case where percentage is given but the 'above' or 'below' not scored, the bid will be non-responsive.

The Contractor should quote his rates only in one language i.e. either in Hindi or English. Rates should be quoted in figures as well as in words. In case a Contractor



has quoted rates in both the languages, and the rates so quoted differ, then the lower of the two shall be treated as the rate quoted by the Contractor.

1.5.3 All duties, taxes, fees and other levies (present and future) payable by the contractor under the Contract, or for any other cause, as on the date thirty days prior to the closing date for submission of bids, shall be included in the total Contract Price submitted by the Bidder and the evaluation and comparison of Bids by the Employer shall be made accordingly.

1.5.4 M/s Sincere Architect & Engineers, Jaipur, was engaged by the Employer for consultancy of the project preparation of this work. The said firm or any of its associates or employees shall not be engaged by the Bidder for any assistance in preparation of bid, drawings, Bill of Quantities and any other part of the Bid Documents for this work. The said firm or its associates or employees shall not be engaged or associated by the Contractor in any manner in the preparation of any contractual matters. Non-compliance with the above conditions shall render the bid / contract invalid.

1.6 **BID SECURITY**

All the eligible contractors should be submit Bid Security declaration on non-judicial stamp of Rs. 50/- as per office order issued by Finance Department (GF&AR) GoR dated 23.12.2020. (Declaration form attached with tender document). It is mandatory to submit bid security declaration in prescribed format along with the bid.

The Bid Security amount to be paid by the Bidder in the following conditions as per

1.6.1 Any bid not accompanied by Bid Security declaration will be summarily rejected by the Employer as non-responsive.

1.6.2 Deleted

1.6.3 Deleted

1.6.4 Deleted

1.6.5 If a bidder withdraw his bid during the period of bid validity; or

a) In the case of a successful Bidder, if he fails or refuses within the specified time limit to :

i sign the agreement , or

ii furnish the required performance security.



Then the action will be taken as per clauses mentioned in Bid Security Declaration form.

1.6.6. Deleted.

1.7 VARIATIONS OR DEVIATIONS IN BID DOCUMENTS

- 1.7.1 The Bidder shall submit an offer which complies fully with the basic requirements of the Bid Documents as indicated in Drawings and Specifications.
- 1.7.2 All bidder are cautioned that no conditional offers, variations or deviations by the bidder in respect of any items proposed by the bidder shall be entertained or considered further in the process of bid evaluation. Furthermore, any deviation from contract conditions, specifications, or other requirements stipulated in these Bid Documents shall be summarily rejected as non-responsive.

1.8 VALIDITY OF BID

- 1.8.1 The Bid shall remain valid and open for acceptance for a period of four months after the date of opening of bid.
- 1.8.1 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request the Bidder for a specified extension in the period of validity. The request and the responses thereto shall be made in writing through post, fax etc. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will neither be required nor permitted to modify his bid, but will be required to extend the validity of his Earnest Money correspondingly. The provision of Clause 1.6 regarding discharge and forfeiture of earnest money shall continue to apply during the extended period of bid validity.

1.9 FORMAT AND SIGNING OF BIDS

- 1.9.1 If the Bid is made by a proprietary firm, it shall be signed by the proprietor with his full name and the full name of his firm with its current address.
- 1.9.2 If the bid is made by a firm in partnership, it shall be signed by a partner holding the power of Attorney for the firm. A certified copy of the power of Attorney shall accompany the Bid. The Certified copy of the partnership deed, current address of the firm and full name and current address of all the partners of the firm shall also accompany the Bid.



-
- 1.9.3 If the bid is made by a private limited company or a public limited corporation, it shall be signed by a duly authorized person holding the power of attorney for such limited company or corporation. A certified copy of the Power of Attorney shall accompany the Bid. Such Limited company or corporation may be required to furnish satisfactory evidence of its existence before the contract is awarded.
- 1.9.4 The bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign the Bidder legally to the contract in all respects. Proof of such authorization shall be furnished in the form of a written Power of Attorney which shall accompany the Bid on stamp paper duly notarized. All pages of the Bid where entries or amendments have been made shall be initialed by the person or persons signing the Bid.
- 1.9.5 The complete bid shall be without alterations, interlineations or erasures, except those to accord with instructions issued by the Employer or as necessary to correct errors made by the Bidder, in which case such corrections shall be initiated by person and persons signing the Bid.

1.10 SEALING AND MARKING OF BIDS

- 1.10.1 THE BIDDER SHALL SUBMIT THE BID THROUGH E-TENDERING ONLY.

1.11 DEADLINE FOR BID SUBMISSION

- 1.11.1 Bids must be submitted by bidders on E-Tendering portal not later than **6:00 PM I.S.T on 29.11.2021**, and bid shall be opened at **11.30 AM I.S.T on 30.11.2021** in the presence of those bidders who may choose to be present. If such last date is declared as a public holiday by the Employer in the Receiving Office, the next official working day would be deemed as the last date for submission and opening of the bids.
- 1.11.2 Any Bid submitted by the bidder without depositing requisite fee on the due date and time will not be opened and shall be treated as non-responsive and thus, rejected.
- 1.11.3 The bidder shall have to submit the original affidavits etc. and other documents uploaded in the Technical Bid as and when demanded by JDA.
- 1.11.14 **JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed: chocking of web site due to heavy load or any other unforeseen problems.**



1.12 MODIFICATION AND WITHDRAWAL OF BIDS

- 1.12.1 The Bidder may modify or withdraw his bid after bid submission, provided that the modification or notice of withdrawal is received in writing by the Employer in the office of the Director (Engineering-II), Jaipur Development authority, prior to the prescribed deadline for submission of Bids.
- 1.12.2 The Bidder's modification or notice of withdrawal shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause 1.11 for submission of Bids, with the inner envelopes additionally marked "MODIFICATION" or "WITHDRAWAL" as appropriate.
- 1.12.3 Modifications to Bid will be permitted only pursuant to Clause 1.13.1 above. Any subsequent set(s) of modifications will be summarily rejected.
- 1.12.4 No Bid shall be modified by the Bidder subsequent to the deadline for submission of the Bids, failing which the Earnest Money Deposit shall stand forfeited.
- 1.12.5 No Bid shall be withdrawn in the interval between the deadline for submission of bids and the expiry of the period of validity of bids specified in the Bid Documents. The withdrawal of bid in any form whatsoever during this interval shall entail the forfeiture of the Earnest Money Deposit pursuant to Clause 1.8, without any further notice or opportunity to the bidder and without prejudice to any other legal rights and remedies open to the Employer.

1.13 BID OPENING & EVALUATION

- 1.13.1 Bids, including submissions made pursuant to Clause 1.14 shall be opened by the Superintending Engineer (II) or his authorized representative on behalf of the Employer, in the presence of such of the Bidder representatives who choose to attend, at 11.30 AM I.S.T. on 30.11.2021 and at the following address.

Room No 107, First Floor, Citizen Care Centre Building
Jaipur Development Authority
Indira Circle, Jawahar Lal Nehru Marg
Jaipur - 302004
(Rajasthan)



The Bidder's representatives who are present shall sign a register giving evidence to their attendance.

- 1.13.2 Bids for which an acceptable Notice of withdrawal had been submitted pursuant to Clause **1.13.1** shall not be opened. The Employer will examine bids to determine whether they are complete, whether the requisite bid securities have been furnished, whether the documents have been properly signed and whether the bids are generally in order.
- 1.13.6 At the Bid Opening the Employer will announce only the Bidders' names, the Bid Prices, written notification of Bid modifications and withdrawals (if any), the deposit of the requisite Earnest Money Deposit, and such other details as the Employer, at his discretion, may consider appropriate.
- 1.13.7 Minutes of the bid opening including the information disclosed to those present in accordance with sub-clause **1.14.3** shall be prepared by the Employer for his own records only and the process of bid opening shall be confidential.
- 1.13.8 After the public opening of bids, information relating to the examination, clarification, evaluation and comparison of bids and recommendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.
- 1.13.9 Any efforts by a bidder to influence the Employer in the process of examination, clarification, evaluation and comparison of bids, and in decisions concerning award of contract, may result in the rejection of the Bidder's bid. Any proved act or attempt by any bidder in breach of the above may immediately entail delisting without prejudice to any other legal rights and remedies available to the Employer.

1.14 CLARIFICATION OF BIDS

- 1.14.1 To assist in the examination, evaluation and comparison of bids, the employer may ask the Bidders individually for clarifications of their bids as per order issued in JDA vide No.-169 dated 21.11.14



1.15 CORRECTION OF ERRORS

1.15.1 Tenders determined to be substantially responsive will be checked by the Employer for any arithmetical errors in computation and summation. The Employer will correct errors as follows:

- a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern ;
- b) In case of any discrepancy between the descriptions in the Scope of Work, Specifications, Drawings, Drawings of Contract and Bill of Quantities, the following order of preference in descending order of importance, shall prevail :
 1. Description of Work
 2. Specification
 3. Drawings
 4. Conditions of Contract
 5. Bill of Quantities

1.15.2 The amount in the 'Form of Bid' will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the bidders, shall be considered as binding upon the bidders. If a bidder does not accept the corrected amount of bid, his bid shall be rejected and the tender Earnest Money shall be forfeited.

1.16 EVALUATION AND COMPARISON OF BIDS

1.16.1 The Employer will evaluate and compare only those bids determined to be substantially responsive to the requirements of the Bid Documents in accordance with Clauses **1.15** and **1.16** hereof.

1.16.2 In evaluating bids, the Employer will determine for each bid its Evaluated Bid Price by adjusting the Bid Price by making any corrections for errors in accordance with clause **1.15**, by making an appropriate adjustment for any other applicable or quantifiable variations not reflected in the priced bid in accordance with clause **1.15** and such other factors as the Employer deems necessary.



1.16.3 If the bid of the successful bidder is seriously unbalanced or 'front-loaded' in relation to the Engineer-in-Charge's estimate of the real cost of the work to be performed under the contract (as determined by the Engineer-in-charge) by more than the amount of the performance security, the Employer may require that the amount of the performance security be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of subsequent default of the successful bidder under the Contract.

1.16.4 Variations, deviations and other factors which are in excess of the requirements of the Tender Documents, or otherwise result in the accrual of unsolicited benefits to the Employer, shall not be taken into account in the tender evaluation.

1.17 AWARD OF CONTRACT CRITERIA

1.17.1 Subject to clause **1.19**, the Employer will award the contract to the bidder whose tender has been determined to be substantially responsive to the Tender Documents and who has offered the lowest Evaluated Tender Price PROVIDED FURTHER that, in the opinion of the Employer, the bidder has the capability and resources to carry out the Contract work effectively.

1.18 EMPLOYER'S RIGHT TO ACCEPT ANY TENDER AND TO REJECT ANY OR ALL TENDERS.

The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject one or all bids, at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds of the Employer's action.

1.19 NOTIFICATION OF AWARD OF CONTRACT

1.19.1 Prior to the expiry of the period of tender validity prescribed by the Employer, the Employer will notify the successful bidder by telegram / cable fax or E-mail (and subsequently confirm in writing by Registered Letter) that his tender has been accepted. This letter called "Letter of Acceptance" shall name the sum which the Employer will pay to the Contractor in consideration of the execution, completion and maintenance of the work by the Contractor as prescribed by the Contract (called the "Contract Price").



1.19.2 The Letter of Acceptance will form part of the Contract and agreement executed between the parties in accordance with the Form of Agreement provided in the Bid Documents.

1.19.3 Upon furnishing by the successful bidder of a Performance Security in accordance with the provisions of the special conditions of contract, the Employer will promptly notify the unsuccessful bidders that their bids have been unsuccessful and will discharge / return without interest.

1.20 SIGNING OF AGREEMENT

1.20.1 At the same time as he notifies the successful Bidder that his Bid has been accepted, the Employer will instruct the successful bidder to sign and execute the agreement within fourteen (14) days of issue of the Letter of Acceptance.

1.21 FAILURE TO EXECUTE AGREEMENT

The contractor shall execute the agreement within fourteen (14) days of issue of Letter of Acceptance; failure to do so shall constitute sufficient grounds for the annulment of the award of contract and forfeiture of the Earnest Money Deposit.



SECTION – 2

(General Conditions of Contract)



SECTION - 2

GENERAL CONDITIONS OF CONTRACT

DEFINITIONS

1. The "Contract" means the documents forming the bid and acceptance thereof and the formal agreement executed between the Jaipur Development Authority and the Contractor, together with the documents referred to therein, including these conditions, Notice inviting Bids, Instructions to Bidders, Special Conditions of Contract, Specifications, Drawings and Designs, Tender and other information submitted by the Contractor and instructions issued from time to time by the Engineer-in-charge and all these documents taken together shall be deemed to form one contract and shall be complementary to another.
2. In the contract the following expressions shall, unless the context otherwise requires, have the meanings herein respectively assigned to them :-
 - a) The "WORKS OR WORK" shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by, or by virtue of the contract contracted to be executed, whether temporary or permanent and whether original, altered, substituted or additional.
 - b) The "SITE" shall mean the land an/or the other places on, into or through which work is to be executed under the contract, or any adjacent land, path or street, through which work is to be executed under the contract, or any adjacent land, path or street, which may be allotted or used for the purpose of carrying out the contract.
 - c) The "CONTRACTOR" shall mean the individual or firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representatives of such individual or the persons composing such firm or company, the successor of such firm or company and the permitted assign of such individual or firm or company.
 - d) The "ENGINEER-IN-CHARGE" shall mean the Executive Engineer In charge of Jaipur Development Authority who shall supervise and be in-charge of the work.
 - e) The "GOVERNMENT","DEPARTMENT" shall mean the Jaipur Development Authority.



- f) The "Accepting Authority" shall mean Executive Committee of Jaipur Development Authority.
- g) The "Director" or "Chief Engineer" shall mean The Director (Engineering-II) of Jaipur Development Authority.
- h) The 'Superintending Engineer' shall mean the Superintending Engineer of Jaipur Development Authority.
- i) "ESTIMATED COST" shall mean the cost of the work or works as estimated on the basis of the TENDERED rate or rates agreed to between the parties to the contract.
- j) Where the context so requires, words importing the singular only also include the plural and vice-versa. Any reference to masculine gender shall wherever required include feminine gender and vice versa.
- k) Headings and marginal notes to these General Conditions of Contract shall not be deemed to form a part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.

The clause 23 of contract agreement i.e. standing committee for settlement of disputes is read as: If any question, difference or objection, whatsoever shall arise in any way, in connection with or arising out of this instrument, or the meaning of operation of any part thereof, of the rights, duties or liabilities of either party men, save in so far, as the decision of any such matter, as herein before provided for, and been so decided, every such matter/ constituting a total claim of Rs. 50,000/- or above, whether its decision has been otherwise provided for an whether it has been finally decided accordingly, or whether the rights or obligations of the parities, as the result of such termination, shall be referred for decision to the empowered standing committee, which would consist of the followings:

- (i) Jaipur Development Commissioner, JDA, Jaipur -Chairman
- (ii) Director (Engineering-II), JDA, Jaipur
- (iii) Director (Finance), JDA, Jaipur
- (iv) Director (Law), JDA, Jaipur
- (v) Superintending Engineer, JDA, Jaipur - Member Secretary

The Engineer-in-Charge, on receipt of application along with nonrefundable prescribed fee, (the fee would be two percent of the amount in dispute, not exceeding Rs. One lac) from the contractor, shall refer the disputes to the committee within a period of three months from the date of receipt of application.

The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications. Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the Bid Documents. None of these documents shall be used for any purpose other than that of this contract.



Procedure and application form referring cases for settlement by the Standing Committee shall be, as given in form RPWA 90.

AGREEMENT No.

Year 20

..... Circle.

Division

Sub- Division

Name of Work

Name of Contractor

Sanction No. Dt.RS.

Technical Sanction No.

Job No.

- (a) Stipulated Date of Start of work
- (b) Stipulated Date of Completion of work
- (c) Actual Date of Completion
- Extension applied on & sanctioned

Vide: C.E./S.E./E.E. No..... Dt. 20

Details of Documents

Page :

- (a) Percentage Rate Tender R.P. W.A. 100
(See rule 322 & note 1 below rule 331)
- (b) Schedule A to F
- (c) Schedule H
- (d) Schedule G
- (e) Schedule
- (f) General Specification and Conditions of Contract
- (g) Contractor's Labour Regulations
- (h)
- (i)

No.

Date :

Copy forwarded to:

1. Director Eng (II) / (Finance), JDA, Jaipur
2. Additional Chief Engineer, JDA, Jaipur
3. Additional Director (Revenue)/CAO, JDA, Jaipur
4. The Assistant Engineer / JEN
5. Auditor
6. Shri Contractor
7. M/s



Amended up to _____ Effective from _____

CONTRACT FOR WORK

GENERAL RULES AND DIRECTIONS FOR THE GUIDANCE OF CONTRACTORS

1. All works, proposed for execution by Contract, will be notified in a form of invitation to tender pasted on public places and on a board hung up in the office of and signed by the JDA or other duly authorized Engineer.

The form of invitation to bid will state the work to be carried out, as well as the date of submitting and opening of bids and the time allowed for arraying out the work, also the amount of the Performance Guarantee and/or Security Deposit to be deposited by the successful bidder and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and estimated rates/scheduled rates and any other documents required in connection with the work signed for the purpose of identification by the Executive Engineer shall be open for inspection by the Contractor at the office of the JDA or other duly authorized Engineer during office hours.

2. In the event of the bid being submitted by a firm, it must be signed separately by each partner, thereof, or in the event of the absence of any partner, it must be signed on his behalf, by a person holding a power of Attorney, authorizing to do so. Such power of Attorney will be submitted with the bid and it must disclose that the firm, is duly registered under the Indian Partnership Act, by submitting the copy or registration certificate.
3. Receipts for payments, made on account of a work when executed, by a firm must also be signed by the several partners, except where the contractors and described in their bid as a firm, in which case the receipts must be signed in the name of the firm by one of the partners or by some other person having authority to give effectual receipts for the firm.
4. Any person, who submits percentage rate bid, shall fill up the usual printed form stating at how much percent above or below the rates specified in Schedule G. he is willing to undertake the work. Only one rate of percentage, more or less, on all the estimated rates/scheduled rates shall be mentioned. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort will be liable to rejection. No single bid shall include more than one work, but Contractors, who wish to bid for two or more works, shall submit a separate bid for



each work. Bids shall have the name and number of work, to which they refer, written outside the envelope.

5. The JDA or other duly authorized Engineer will open the bids in the presence of any contractor(s) or their authorized representatives who may be present at the time, and will announce and enter the rates/amounts of all bids in the Register of Opening of Bids, (Form RPWA20A). In the event of the bid being accepted, a receipt for the Earnest Money deposited shall be given to the Contractor, who shall sign copies of the specifications and other documents mentioned in Rule 1. In the event of a bid being rejected, the Earnest Money forwarded with such unaccepted bids shall, be returned to the Contractor making the same.
6. The JDA or other duly authorized Engineer shall have the right of rejecting all or any of the bids without assigning any reason.
7. The receipt of an Accountant, Cashier or any other official, not authorized to receive such amount, will not be considered as an acknowledgement of payment to the JDA or other duly authorized Engineer.
8. The memorandum of work tendered for, memorandum of materials and of tools and plant to be supplied by the Department and their rates, shall be filled in and completed in the office of the JDA or duly authorized Engineer before the tender form is issued.
9. If it is found that the bid is not submitted in proper manner, or contains too many corrections and or unreasonable rates or amounts, it would be open for the Engineer-in-charge not to consider the bid, forfeit the amount of earnest money and/ or de-list the contractor.
10. The bidder shall sign a declaration under the Official Secrets Act for maintaining secrecy of the bid documents, drawing or other records connected with the work given to him in form given below. The unsuccessful bidders shall return all the drawings given to them.

Declaration: -

" I / We hereby declare that I/We shall treat the tender documents, drawings and other records, connected with the work, as secret confidential documents, and shall not communicate information derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the same. "

11. Any percentage rate bid containing Item-wise rates, and any item rate bid containing percentage rate below or above estimated/scheduled rates, will be summarily rejected.



- However, if a bidder voluntarily offers a rebate for payment within a stipulated period, this may be considered.
12. On acceptance of the bid, the name of the accredited representative (s) of the Contractor (with a photograph and signature attested), who would be responsible for taking instruction from the Engineer in charge, shall be communicated to the Engineer-in-charge.
 13. Sales tax or any other tax on materials, or Income Tax in respect of the contract shall be governed by Clause 36 A, B and C and B of the Conditions of Contract. Deduction of Income Tax at source will be made as per provisions of the Income Tax Act, in *** from time to time.
 14. The bid to work shall not be witnessed by a Contractor or Contractors who himself/themselves has/have bid or who may and has/have bid for the same work. Failure to observe the secrecy of the bids will bid of the contractors, bidding as well as witnessing the bid, liable to summary rejection.
 15. If on check, there are differences between the rate quoted by the Contractor in words and figures, or in the amount worked out by him, the following procedure shall be followed :-
 - (i) Where there is a difference between the rates in figures and words, the rate written in words shall prevail.
 - (ii) When the rate quoted by the contractor in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount worked out.
 - (iii) While quoting rates, if rate/rates against any item of items are found to be omitted, the rate given in the Schedule 'G' by the department for such items will be taken into account while preparing comparative statement and contractor shall be bound to execute such item on 'G' schedule rates.
 - (iv) In case where percentage is given but the 'above' or 'below' not scored, the bid will be non-responsive.
 16. The Contractor shall comply with the provisions of the Apprenticeship Act, 1961, and the rules and orders issued, there under, from time to time. If he fails to do so, his failure will be a breach of the contract and the original sanctioning authority in his discretion may cancel the contract. The Contractor shall also be liable for any pecuniary liability arising on account of relocations by him of the provisions of the Act.



17. The Contractor shall read the specifications and study the working drawings carefully before submitting the bid.
18. The site for execution of the work will be made available as soon as the work is awarded. In case, it is not possible for the Department to make the entire site available on the award of the work, the Contractor shall arrange his working programme accordingly. No claim, whatsoever, for not giving the site in full on award of the work or for giving the site gradually in parts will be tenable. The contractor may satisfy himself regarding site, acquisition of land, approach road etc.
19. The bid documents show already the specific terms and conditions on which bids are required by the Government. Hence, all bids should be in strict conformity with the bid documents and should be fulfilled in, wherever necessary, and initiated. Incomplete bids are liable to be rejected. The terms and conditions of the bid documents are firm; as such conditional bids are liable to be rejected.
20. The bidder, while submitting bid, must provide adequate information regarding his financial, technical and organizational capacity and working experience to execute the work of the nature and magnitude.
21. The JDA or other duly authorized Engineer reserves the right in ask for submission of samples as in respect of materials for which the bidder has quoted his rates before the bid can be considered for acceptance. If the bidder, who is called upon, to do so, does not submit within seven days of written order to do so, the Engineer-in Charge shall be at liberty to forfeit the said earnest money absolutely.
22. The Contractor shall submit the list of the works, which are in hand (progress). In the following form :

Name of work	Name and particular of the Sub Division/Division, Where work is being executed	Amount of work	Position of works in progress	Remarks
1	2	3	4	5

23. The Contractor should quote his rates only in one language i.e. either in Hindi or English. Rates should be quoted in figures as well as in words. In case a Contractor has quoted rates in both the languages, and the rates so quoted differ, then the lower of the two shall be treated as the rate quoted by the Contractor.



24. All additions, deletions, corrections and overwriting, must be serially numbered and attested by the Contractor at every page, so also by the officer opening the tenders, so as to make further disputes impossible on this score.
25. After acceptance of the bid, the Contractor or all partners (in the case of partnership firm) will append photograph and signatures duly attested, at the time of execution of Agreement.
26. If any contractor, who having submitted a bid does not execute the agreement or start the work or does not complete the work and the work has to be put to re-bidding, he shall stand debarred from participating in such re-bidding in addition to forfeiture of Earnest Money/Security Deposit/Performance Guarantee and other action under agreement.
27. The bid documents shall be issued to those contractors only having valid enlistment as on the date of issue of documents.
28. (a) If a bidder reduces the rates voluntarily after opening of the tenders/negotiations, his offer shall stand cancelled automatically, his earnest money shall be forfeited and action for debarring him from business shall be taken as per enlistment rules.
(b) If a non-bidder offers lower rates after opening of tenders, action for debarring him from business shall be taken as per enlistment rules.
29. Contractors shall submit only unconditional tenders. Conditional bids are liable to be rejected summarily.

Bid for works

I/ We hereby tender for the execution for the Jaipur Development Commissioner of Jaipur Development Authority of the work specified in the underwritten memorandum within the time specified in such memorandum at the rates, (in figures) % (As well as in words) percent below/above the amount, entered in the schedule G in all respects in accordance with the specifications, designs, drawings and instructions in writing referred to in Rule 1 in all respects in accordance with such conditions so far as applicable. I/We have visited the site of work and am/are fully aware of all the difficulties and conditions likely to affect carrying out the work. I / We have fully acquainted myself/ourselves about the conditions in regard to accessibility of site and quarries/kilns, nature and the extent of ground, working conditions including stacking of materials, installation of tools & plant, conditions effecting accommodation and movement of labour etc. required for the satisfactory execution of contract.



Memorandum

- (a) **General - description of work** : Traffic Improvement and Beautification works at Jawahar Circle, JDA, Jaipur.
- (b) **Estimated cost** Rs. 4240.10 Lakh
- (c) **Earnest money**: Bid Security declaration form to be submitted.
- (d) **Performance Guarantee & Security Deposit** :
 - (i) "The security deposit @ 3% of the gross amount of the running bill shall deduct from each running bill and shall be refunded as per rules on completions of the contract as per terms and condition. However the amount of security deposit deducted from running bills shall not be converted into any mode of securities bank guarantee, FDR etc. The earnest money deposited shall however be adjusted while deducting security deposit from first running bill of the contractor. There will be no maximum limit of security deposit.

However, a contractor may elect to deposit of full amount of 3% security deposit in the shape of bank guarantee or any acceptable form of security before or at the time of executing agreement. In that case earnest money may be refunded only after deposition of full 3% as above. However, in case during execution, cost of works exceeds as shown at the time of depositing 3% as above, balance security deposit shall be deducted from the "Running Account Bills".
 - (ii) Bank Guarantee shall in all cases be payable at the head quarter of the Division or the nearest District Headquarters.
- (e) Time allowed for the completion of work (to be reckoned from the 15th day after the date of written order to commence the work) is 12 Months. Should this bid be accepted in whole or In Part, I/We hereby agree to abide by and fulfill all the terms and provisions of the conditions of contract annexed hereto and of the Notice Inviting Bid, or in default thereof, to forfeit and pay to the Jaipur Development Commissioner of Jaipur Development Authority of Rajasthan or his successors in office, the sum of money mentioned in the said conditions.
- (f) A sum of Rs. is forwarded herewith in the form of Cash, Bank Draft, Bankers Cheque as Earnest Money. This amount of earnest money shall absolutely be forfeited to the Jaipur Development Commissioner of Jaipur Development Authority or his successor in office without prejudice to any other right or remedies of Jaipur Development Commissioner of Jaipur Development Authority of his successor in his office, should. I/ We fail to commence the work specified in the above memorandum.



Signature of Witness
Witness's address & occupation

Signature of Contractor
Address of Contractor

Date: The above bid is hereby accepted by me on behalf of the Jaipur Development
Commissioner of Jaipur Development Authority.

Executive Engineer Traffic Works-I



CONDITIONS OF CONTRACT

Clause 1: Security Deposit:

The security deposit @ 3% of the gross amount of the running bill shall deduct from each running bill and shall be refunded as per rules on completions of the contract as per terms and condition. However the amount of security deposit deducted from running bills shall not be converted into any mode of securities bank guarantee, FDR etc. The earnest money deposited shall however be adjusted while deducting security deposit from first running bill of the contractor. There will be no maximum limit of security deposit.

A contractor may however, elect to furnish bank guarantee or any acceptable form of security for an amount equal to the full amount of security deposit @ 3% of the work order before or at the time of executing the agreement. In that case, earnest money may be refunded only after furnishing of the bank guarantee as above. However during execution of the work if cost of work exceeds as shown at the time of furnishing bank guarantee, balance security deposit shall be deducted from the "Running Account Bills".

All compensation or other sums of money payable by the Contractor to Jaipur Development Authority under the terms of his contract may be deducted from or paid by the sale of a sufficient part of his Performance Guarantee and/or Security Deposit, or from interest arising therefrom, or from any sums, which may be due or may become due to the Contractor by the JDA on any account whatsoever, and in the event of this Security Deposit being reduced by reason of any such deduction or sale as aforesaid, the Contractor shall within ten days thereafter, make good in cash or Bank Guarantee of Nationalized/Scheduled Bank, as aforesaid, any sum or sums which may have been deducted from or raised by sale of his Performance Guarantee and / or Security Deposit or any part thereof.

In case of Bank Guarantee of any Nationalized/Scheduled Bank is furnished by the Contractor to the Jaipur Development Authority, as part of the Security Deposit/Performance Guarantee and the bank goes into liquidation or, for any reason, is unable to make payment against the said Bank Guarantee, the loss caused thereby shall fall on the Contractor and the Contractor shall forthwith, on demand, furnish additional security to the Jaipur Development Authority to make good the deficit.

The liability or obligation of the bank under the Guarantee Bond shall not be affected or suspended by any dispute between the Engineer-in-charge and the Contractor, and the payment, under the Guarantee Bond by the bank to the Jaipur Development Authority shall not wait till disputes are decided. The bank shall pay the amount under the Guarantee, without any demur, merely on a demand from the Jaipur Development Authority stating that the amount claimed is required to meet the recoveries due or likely to be due from the Contractor. The demand, so made, shall be conclusive as regards, to amount due and payable by the bank, under the



guarantee limited to the amount specified in the guarantee Bond. The guarantee will not discharge due to the change in the constitution of the Bank or the Contractor.

The Bank Guarantee shall remain valid up to the specified date unless extended on demand by the Engineer-in-charge, which shall include the period of completion of the contract and the defect removal period as per terms or the Agreement, Bank's liability shall, stand automatically discharged unless a claim in writing is lodged with the Bank within the period stated in the Bank Guarantee including the extended period. After satisfactory completion of the contract and clearance of all dues by the Contractor, the Director (Engineering)-I or duly authorized Engineer will discharge the Bank Guarantee after expiry of the original or the extended period, as the case may be. In case the date of expiry of the Bank Guarantee is a holiday, it will be deemed to expire on the close of the next working day.

Jaipur Development Authority is not concerned with any interest accruing to the Contractor. On any form of Security (primary or collateral) lodged by him with the bank or any sums payable to sureties obtained by the Bank as counter guarantee to secure its own position. These will be the matters between the Bank and the Contractor.

Clause 2: Compensation for delay:

The time allowed for carrying out the work, as entered in the tender, shall be strictly observed by the Contractor and shall be reckoned from the 15th day after the date of written order to commence the work given to the Contractor. If the contractor does not commence the work within the period specified in the work order, he shall stand liable for the forfeiture of the amount of Earnest Money, Performance Guarantee and Security Deposit. Besides, appropriate action may be taken by the Engineer-in-charge/competent authority to debar him from taking part in future bids for a specified period or black list him. The work shall, throughout the stipulated period of completion of the contract, be proceeded with all due diligence, time being essence of the contract, on the part of the Contractor. To ensure good progress during the execution of work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month (save for special jobs), to complete 1/8th of the whole of the work before 1/4th of the whole time allowed under the contract has elapsed, 3/8th of the work before 1/2 of such time has elapsed and 3/4th of the work before 3/4 of such time *** elapsed. If the contractor fails to complete the work in accordance with this time schedule in terms of cost in money, and the delay in execution of work is attributable to the contractor, the contractor shall be liable to pay compensation to the Jaipur Development Authority at every time span as below: -



A.	Time Span of full stipulated period	1/4th	1/2th	3/4th	Full
B.	Work to be completed in terms or money.	(..... days) 1/8th	(..... days) 3/8th	(..... days) 3/4th	(..... days) Full
C.	Compensation payable by the contractor for delay at the stage of :	(Rs.....) 2.5% of Scheduled work remained unexecuted on the last day of (1/4) time span.	(Rs.....) 5% of Scheduled work remained unexecuted on the last day of (1/2) time span.	(Rs.....) 7.5% of Scheduled work remained unexecuted on the last day of (3/4) time span.	(Rs.....) 10% of Scheduled work remained unexecuted on the last day of contracted full period.

Note: In case delayed period over a particular span is stilt up and is jointly attributable to government and contractor, the competent authority may reduce the compensation in proportion of delay attributable to government over entire delayed over that span after clubbing up the split delays attributable to government and this reduced compensation would be application over the entire delayed period without paying any escalation. Following illustration is given.

First time span is of 6 months, delay is of 30 days which is split over as under 5 days [attributable to government] + 5 days [attributable to contractor] + 5 days [attributable to government] + 5 days clubbed to 15 days [attributable to government] and 15 days [attributable to contractor]. The normal compensation 30 days as per clause 2 of agreement is 2.5 which can be reduced as $2.5 \times 15/30 = 1.25$ over 30 days without any escalation by competent authority.

The contractor shall, further, be found to carry out the work in accordance with the date and quantity entered the progress statement attached to the bid.

In case the delay in execution of work is attributable to the contractor, then span wise compensation as laid down in this clause shall be mandatory. However, in case the slow progress in one time span is covered up within original stipulated period, then the amount of such compensation levied earlier shall be refunded. The Price escalation, if any, admissible under clause 45 of Conditions of Contract would be admissible only on such rates and cost of work, as would be admissible if work would have been carried out in that particular time span. The Engineer-in-charge shall review the progress achieved in every time span, and grant stage wise



extension in case of slow progress with compensation, if the delay is attributable to contractor, otherwise without compensation.

However, if for any special job, a time schedule has been submitted by the Contractor before execution of the agreement and it is entered in agreement as well as same has been accepted by the Engineer-in charge, the Contractor shall complete the work within the said time schedule. In the event of the Contractor failing to comply with this condition, he shall be liable to pay compensation as prescribed in forgoing paragraph of this clause provided that the entire amount of compensation to be levied under the provisions of this Clause shall not exceed 10% of the value of the contract. While granting extension in time attributable to the Jaipur Development Authority reasons shall be recorded for each delay.

Clause 3: Risk & Cost Clause:

The Engineer-in-charge or the Competent Authority defined under rules may, without prejudice to his rights against the Contractor, in respect of any delay or interior workmanship or otherwise, or to any claims for damages in respect of any breaches of the contract and without prejudice to any rights or remedies under any of the provisions of this contract or otherwise, and whether the date for completion has or has not elapsed, by notice in writing, absolutely determine the contract in any of the following cases :-

- (i) If Contractor having been given by the Engineer-in-charge, a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in any inefficient or otherwise improper or un-workman like manner, shall omit to comply with the requirements of such notice for a period of seven days, thereafter, or if the Contractor shall delay or suspend the execution of the work so that either in the judgment of the Engineer-in-charge (which shall be final and binding) he will be unable to secure completion of the work by the date for completion of he has already, failed to complete the work by that date.
- (ii) If the Contractor, being a company, shall pass a resolution or the Court shall make an order that the company shall be wound up or if a receiver or a manager, on behalf of a creditor, shall be appointed or if circumstances shall arise, which entitle the Court or Creditor to appoint a receiver or a manager or which entitle the Court to make a winding up order.
- (iii) If the Contractor commits breach of any of the terms and conditions of this contract.
- (iv) If the contractor commits any acts mentioned in clause 19 hereof.

When the contractor has made himself liable for action under any of the cases aforesaid. The Engineer in-charge behalf of the Jaipur Development Commissioner of Jaipur Development Authority shall have powers.



-
- (a) To determine or rescind the contract as aforesaid of which determination or rescission notice in writing to the contractor under the hand of the Engineer in charge shall be conclusive evidence upon such determination or rescission, the earnest money, full security deposit of the contract and performance guarantee of the contractor shall be liable to be forfeited and shall be absolutely at the disposals of Jaipur Development Authority.
- (b) To employ labour paid by the department and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the material (of the amount of which cost and price certified by the Engineer in charge shall be final and conclusive against the contractor) and crediting him with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract. The certificate of the divisional officer as to the value of the work done, shall be final and conclusive evidence against the contractor provided always that action under the sub clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than amount payable to the contractor at his agreement rates the difference shall not be paid to the contractor.
- (c) After giving notice to the contractor to measure up the work of the contractor and to take such part thereof as shall be unexecuted out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Engineer-in-charge shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by Jaipur Development Authority under this contract or on any other account whatsoever or from his earnest money, security deposit, performance guarantee, enlistment security or the proceeds of sales thereof or a sufficient part thereof as the case may be. In the event of any one or more of the above courses being adopted by the engineer in charge the contractor shall not claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of contract. And in case action is taken under any of provisions aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer in charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.



Clause 4: Contractor remains liable to pay compensation, if action not taken under clause 3

- (i) In any case in which any of the powers conferred by clause 3 hereof shall have become exercisable and the same shall have not been exercised the non-exercise thereof shall not constitute waiver of any of the conditions thereof and such power shall not with starting be exercisable in the event of any future case of default by the contractor for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit/performance guarantee/Easiest money/Enlistment security and the liability of the contractor for past and future compensation shall remain unaffected.

Powers to take possession of or require removal sale of contractor plant.

- (ii) In the event of the Engineer in charge putting in force powers vested in him under the preceding clause 3, he may, if he so desires, take possession of all or any tools plants materials and stores in or upon the works or the site, thereof, or belonging to the contractor of procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates or in case of these not being applicable, at current market rates, to be certified by the JDA or duly authorized Engineer (whose certificate thereof shall be final and conclusive) otherwise the Engineer in charge may give notice in writing to the contractor or his clerk of the works foreman or other authorized agent require him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice) and in the event of the contractor failing to comply with any requisition, the JDA or other duly authorized Engineer may remove them at the contractors expenses by auction or private sale on account of the contractor and at his risk in all respects, and the certificate of the JDA or other duly authorized Engineers, as to the expense of any such removal, and the amount of the proceeds and expense of any such sale shall be final and conclusive against the contractor.

Clause 5: Extension of Time:

If the contractor desires an extension of time for completion of the work on the ground of his having been unavoidably hindered in its execution or on any other grounds he shall apply in writing to the Engineer in charge within 30 days of the date of the hindrance on account of which he desires such extension as aforesaid and the authority competent to grant extension under the rule/delegation of powers or other duly authorized Engineer shall if in his opinion (which shall be final) reasonable grounds be shown therefore authorize such extension of time if any as may, in his opinion be necessary or proper, if the period of completion of contractor expires before the expiry of the period of one month provided in this clause the application for extension shall be made before the expiry of the period stipulated for completion of contract the competent



authority shall grant such extension at each such occasion within a period of 30 days of receipt of application from contractor and shall not wait for finally of work. Such extensions shall be granted in accordance with provisions under clause (2) of this agreement.

Clause 5 A: Monthly returns of extra claims:

Contractor has to submit a return every month for any work claimed as extra. The contractor delivery the return in the office of the executive engineer and obtain receipt number of the receipt register of the day on or before 10th day of every month during the continuance of the work covered by this contract a return showing details of any work claimed as extra by the contractor which value shall be based upon the rates and prices mentioned in the contractor or in the schedule of rates in force in the district for the time being. The contractor shall be deemed to have waived all claims not included in such return and will have no right to enforce any such claims not included whatsoever be the circumstance.

Clause 6: Final certificate:

On completion of the work the contractor shall send a registered notice to the Engineer in charge giving the date of completion and sending a copy of it to the officer accepting the contractor on behalf of the J.D.C. and shall request Engineer In-Charge to give him a certificate of completion but no such certificate shall be given nor shall the work be considered to be complete unit the contractor shall have removed from the site on which the work shall be executed all scaffolding surplus materials and rubbish and cleared off the dirt from all wood work doors walls floors or other parts of any building in upon or about which the work is to be executed or of which he may have possession for the execution thereof he had filled up the pits. If the contractor shall fail to comply with the requirements of this clause as to removal of scaffolding surplus materials and rubbish and clearing off dirt and filling of pits on or before the date fixed for completion of the work, the Engineer-in-Charge may, at the expenses of the contractor, remove such scaffolding, surplus materials and the rubbish and dispose of the same, as he thinks fit, and clean off such dirt and fill the pit, as aforesaid and the contractor shall forthwith pay the amount of all expense so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof. On completion, the work shall be measured by the Engineer in charge himself or through his subordinates whose measurements shall be binding and conclusive against the contractor. Provided that if subsequent to the taking of measurements by the subordinate as aforesaid, the Engineer in charge had reason to believe that the measurements taken by his subordinates are not correct the engineer in charge shall have the power to cancel the measurements already taken by his subordinates and acknowledged by the contractor and to take measurements again after giving reasonable notice to the contractor and such pre-measurement shall be binding on the contractor.



Within ten/thirty days of the receipt of the notice Engineer in charge shall inspect the work and if there is no visible defects on the face of the work shall give the contractor, a certificate of completion. If the Engineer in charge finds that the work has been fully completed. It shall be mentioned in the certificate so granted. If on the other hand, it is found that there are certain visible defects to be removed the certificate to be granted by Engineer in charge shall specifically mention the details of the visible defects along with the estimate of the cost for removing these defects. The final certificate of work shall be given after the visible defects pointed out as above have been removed. Ten days will apply to works at the headquarters of Engineer-in-charge and thirty days for works at other place.

Clause: 7: Payment on intermediate certificate to be regarded as advance:

No Payment shall be made for works estimated to cost less than rupees twenty five thousand till after the whole of the works shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than Rupees twenty five thousand the contractor for shall on submitting the bill therefore, be entitled to receive a monthly payment proportionate to the part thereof then approved and passed by the engineer in charge, whose certificate of such approval and passing of sum so payable shall be final and conclusive. Running Account bill shall be paid within 15 days from presentation. But all such intermediate payment shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed and shall not erected or considered as an admission of the due performance of the contract or any part thereof in any respect or the accruing of any claim nor shall it conclude determine or effect in any way the powers of the Engineer -in-charge under these conditions or any of them to final settlement and adjustment of the accounts or otherwise or in any other way vary of effect the contract. The final bill shall be made/submitted by the Contractor within one month of the date fixed for completion of the work otherwise the Engineer-in-charge's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on all parties.

Clause 7 A: Time Limit for Payments of Final Bills:

The final bill shall be paid within 3 months on presentation by the contractor after issuance of final completion certificate in accordance with clause 6 of the conditions of contract. If, there shall be any dispute about any item(s) of the work, then the undisputed item(s) only, shall be paid within the said period of 3 months if a final bill (which contains no disputed item or disputed amount of any item) is not paid within the period of 3 months from presentation of final bill or 6 months from the date of receipt of registered notice regarding completion of work in accordance with clause 6 of the conditions of the contract, the defects, if any shall be brought to the notice of the higher authority. The period of 3 months shall commence from the date of rectification of the defects. The higher authority shall ensure that in no case final bill should be left unpaid after 9 months from the receipt of registered notice regarding completion of work. The contractor shall submit a memorandum of the disputed items along with justification in



support within 30 days from the disallowance thereof, and if he fail, to do so, his claims shall be deemed to have been fully waived and absolutely extinguished.

Clause 8: Bills to be submitted monthly:

A bill shall be submitted by the Contractor each month on or before the date fixed by the Engineer-in-charge for all work executed in the previous month and the Engineer-in-charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, as far as admissible, authorized or paid, if possible, before the expiry of ten days from the presentation of the bill. If the Contractor does not submit the bill within the time fixed, as aforesaid, the Engineer-in-charge may depute a subordinate to measure up to said work in the presence of the Contractor, whose signature in the Measurement Book will be sufficient warrant and the Engineer-in-charge may prepare a bill from such Measurement, Book, which shall be binding on the Contractor in all respects.

Clause 8 A: Contractor to be given time to file objection to the Measurements recorded by the Department: -

Before taking any measurement of any work, as have been referred to in preceding Clauses 6, 7 & 8, the Engineer-in-charge or a subordinate, deputed by him, shall give reasonable notice to the Contractor. If the Contractor fails to be present at the time of taking measurements after such notice or fails to sign or to record the difference within a week from the date of measurement in the manner required by the Engineer-in-charge, then in any such event, the measurements taken by the Engineer-in-charge or by the subordinates deputed by him, as the case may be, shall be final and binding on the Contractor and the Contractor shall have no right to dispute the same.

Clause 8 B: Recovery of cost of preparation of the Bill:

In case of contractors of class "A" and "AA" do not submit the bill with time fixed, the Engineer-in-charge may prepare the bill as per provision of clause 8 of the conditions of contract but deduction @ 0.5% of amount of such a bill shall be made and credited to the general revenue on account of preparation of bill.

Clause 9: Bills to be on printed forms:

The Contractor shall submit all bills on the printed forms, to be had on application, at the office of the Engineer-in-charge and the charges in the bills shall always be entered at the rates specified in the bid or in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the bid, at the rates hereinafter provided for such work.

Clause 9 A: Payments of Contractor's Bills to Banks:

Payments due to the Contractor may if so desired by him, be made to his Bank instead of direct to him, provided that the contractor has furnished to the Engineer-in-charge (i) an authorization in the form of a legally valid document, such as a Power of Attorney conferring



authority on the Bank to receive payments, and (ii) his owe acceptance of the correctness of the account made out, as being due, to him, by Government, or his signature on the bill or other claim preferred against Jaipur Development Authority before settlement by the Engineer-in-charge of the account or claim, by payment to the Bank. While the receipt given by such bank shall constitute a full and sufficient discharge for the payment, the Contractor should, whenever possible, present his bill duly receipted and discharged through his Banker. Nothing, herein contained, shall operate to create in favour of the Bank any rights vis-à-vis the Jaipur Development Commissioner of Jaipur Development Authority.

Clause 10: Stores supplied by Jaipur Development Authority: -

If the specification of estimate of the work provides for the use of any special description of material, to be supplied from Engineer-in-charge's stores, or if, it is required that contractor shall use certain stores to be provided by the Engineer-in-charge specified in the schedule or memorandum hereto annexed, the Contractor shall be bound to procure and shall be supplied such materials and stores as are, for time to time, required to be used by him for the purpose of the contract only, and the value of the full quantity of materials and stores, so supplied; at the rate specified in the said schedule or memorandum, may be set off or which may be deducted from any sum, then due or thereafter become due, to the contractor under the contract or otherwise or against or from the performance Guarantee and or Security Deposit or the proceeds of sale, if the same is held in Jaipur Development Authority securities, the same or a sufficient portion thereof being in this case, sold for this purpose. All materials supplied to the Contractor, either from departmental stores or with the assistance of Government, shall remain the absolute property of Government. The Contractor shall be the trustee of the Stores/Materials, so supplied/procured and these shall not, on any account, be removed from the site of work and shall be all times open to inspection by the Engineer-In-charge. Any such material unused and in perfectly good condition at the time of completion or determination or rescinding of the contract, shall be returned to the Divisional Officer's Stores. If by a notice in writing under his hand, he shall so require, and if on service of such notice, the contractor fails to return the materials so required he shall be liable to pay the price of such materials in accordance with the provision of Clause 10B in bid. But the Contractor shall not be entitled to return any such materials, unless with such consent, and shall have no claim for compensation on account of any such materials, so supplied to him as a foresaid being unused by him, or for any wastage in or damage to any such materials. For the stores returned by the Contractors, he shall be paid for at the price originally charged excluding storage charges, in case of material supplied from departmental stores and actual cost including freight, cartage, taxes etc. paid by the contractor, in case of supplies received with the assistance of Government, which, however, should in no case exceed market rate prevailing at the time the materials are taken back. The decision of the Engineer-in-charge as to the price of the stores returned keeping in view its condition etc, shall be final and



conclusive. In the event of breach of the aforesaid condition, the Contractor shall in addition to throwing himself open in account for contravention of the terms of the license or permit and/or for criminal breach of trust, pay to the Government, all advantages or profits resulting, or which in the usual course, would result to him by reason of such breach. Provided that the contractor shall, in no case be entitled to any compensation or damage on account of any delay in supply thereof, all or any such materials and stores.

Clause 10A: Rejection of materials procured by the contractor:

The Engineer-in charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and, in case of default, the Engineer-in charge shall be at liberty to employ other person (s) to remove the same without being answerable or accountable for any loss or damage, that may happen or arise to such materials to substituted thereof, and in case of default, Engineer-in charge may cause the same to be supplied and all costs. Which may attend such removal and substitution, are to be born by the contractor.

Clause 10B: Penal rate in case of excess consumption:

The contractor shall also be charged for the materials consumed in excess of the requirements calculated on the basis of standard consumption approved by the department at double of the issue rate including storage and supervision charge or market rate, whichever is higher. A Material supply and consumption statement in prescribed Form RPWA35A shall be submitted with every Running Account Bill, distinguishing material supplied by the Government and the material procured by the Contractor himself. The recovery for such material shall be made from Running Account Bill next after the consumption and shall not be referred certificate of such nature shall be given in each running Account Bill.

Clause 10 C: Hire of Plant and Machinery:

Special Plant and Machinery, required for execution of the work may be issued to the contractor, if available, on the rates of hire charges and other terms and condition as per departmental Rules, as schedule annexed to these conditions. Rates of such Plant & machinery shall be got revised periodically so as to bring them at par with market rate:

Clause 11: Works to be executed in accordance with specifications, Drawings, Orders, etc.

The Contractor shall execute the whole and every part of the work in the most substantial and satisfactory manner and both as regards materials and otherwise in every respect in strict accordance with the Specification. The Contractor shall also conform exactly fully and faithfully to the designs, drawings and instructions in writing relating to the work assigned by the Engineer-in-charge and lodged in his office and to which the contractor shall be entitled to have access at such office or on the site of the work for the purpose of inspection during office hours and contractor shall, if he so require, be entitled, at his own expense, to make or cause to be



made copies of specifications and of all such designs, drawings and instructions, as aforesaid. A certificate of executing works as per approved design and specifications etc. shall be given on each Running Account.

These specifications of work, material, methodology of execution, drawings and designs shall be signed by the contractor and executive Engineer while executing agreement and shall form part of agreement.

Clause 12:

The Engineer-in-charge shall have power to make any alteration omission or additions to or substitutions for the original specification, drawings, designs and instructions, that may appear to him to be necessary during the progress of the work and the contractor shall carry out the work accordance with any instruction which may be given to him in writing signed by the Engineer-In-Charge and such alterations, omissions, additions or substitutions shall not invalidate the contract and any altered, additional or substituted work, which the contractor may be directed to do in the manner above specified, as part of the work shall be carried out work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work, and the certificate of the Engineer-in-charge shall be conclusive as to such proportion. The rates for such additional altered or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order.

- (i) If the rate for the additional, altered or substituted work are specified in the contract for the work, the contractor is bound to carry out the additional, altered or substituted work at the same rates as are specified in the contract for the work.
- (ii) If the rates for the additional, altered or substituted work are not specifically provided in the contract for the work , such rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- (iii) If the rates for the altered, additional or substituted work can not be determined in the manner specified in the sub-clause (i) to (ii) above, then the rates for such composite work items shall be worked out on the basis of the concerned Schedule of Rates of the Districts / Area specified above minus / plus the percentage which the total tendered amount bears to the estimated cost of the entire work put to bid. Provided always that if the rates for a particular part of parts of the item is not in the Schedule of Rates, the rate for such part or parts will be determined by the Engineer-in-Charge on the basis of the prevailing market rates when the work was done.
- (iv) If the rate for the altered, additional or substituted work item cannot be determined in the manner specified in sub-clauses (i) to (iii) above, then the contractor shall within 7 days of the date of receipt of order to carry out the work, inform the Engineer-in-Charge of the rates which it is his intention to charge for which class of work



supported by analysis of the rate or rates claimed and the Engineer-in-Charge shall determine the rates or rates on the basis of prevailing market rates, and pay the contractor accordingly. However, the Engineer-in-Charge by notice in writing will be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner, as he may consider advisable. But under no circumstances, the contractor shall suspend the work on the plea of non-settlement of rates on items failing under the clause.

- (v) Except in case of items relating to foundations, provisions contained sub-clauses (i) to (iv) above shall not apply to contract or substituted items as individually exceed the percentage set out in the bid documents under Clause 12.A.

For the purpose of operation of Clause 12(v) the following works shall be treated as work relating to foundations:-

- (a) For buildings, compound wall, plinth level or 1.2 meters (4 ft.) above ground level whichever is lower, excluding items above flooring and D.P.C. but including base concrete below floors.
- (b) For abutments, pier, retaining wall of culverts and bridges, walls of water reservoir and the bed of floor level.
- (c) For retaining walls, where floor levels is not determinate 1.2 meters above the average ground level or bed level.
- (d) For roads, all items of excavation and filling including treatment of sub base and soling work.
- (e) For water supply lines, sewer lines underground storm water drains and similar work all items of work below ground level except items of pipe work for proper masonry work.
- (f) For open storm water drains, all items of work except lining of drains.
- (g) Any other items of similar nature which Engineer-in-charge may decide relating to foundation.

The rate of any such work, except the items relating to foundations, which is in excess of the deviation limit, shall be determined in accordance with the provisions contained in Clause 12A.

Clause 12A:

The quantum of additional work for each item shall not exceed 50% of the original quantity given in the agreement and the total value of additional work shall not exceed 50% of the total contract value, unless otherwise mutually agreed by the Engineer-in-charge and the Contractor.



In case of contract substituted items or additional items, which results in exceeding the deviation limit laid down in this clause except items relating to foundation work. Which the contractor is required to do under Clause 12 above, the contractor shall within 7 days from the receipt of order, claim revision of the rate supported by proper analysis in respect of such items for quantities in excess of the deviation limit notwithstanding the fact that the rates for such items exist in the bid for the main work or can be derived in accordance with the provision of sub clause (ii) of Clause 12 and the Engineer-in-charge, may revise their rates having derived in according with the provision of sub-clause may revise their rates having regard to prevailing market rates and the contractor shall be paid in accordance with the rates so fixed. The Engineer-in-charge shall be at liberty to cancel his order to carry out such increased quantities of work by giving notice in writing to the contractor and arrange to carry out in such manner, as he may consider advisable. But under no circumstances, the contractor shall suspend the work on the plea of non-settlement of rates of items failing under this clause.

All the provisions of the preceding paragraph shall equally apply to decrease in rates of items for quantities in excess of the deviation limit notwithstanding the fact that the rates for such items exist in the bid for the main work or can be derived in accordance with the provisions of sub-clause (ii) of the preceding clause 12 and the Engineer-in-charge may revise such rates having regard to the prevailing market rates unless otherwise mutually agreed by the engineer-in-charge and the contractor.

Clause 13: No compensation for alteration in or restriction of work to be carried out:

If at any time after the commencement of the work the Jaipur Development Authority shall, for any reason, whatsoever, not require the whole work, thereof, as specified in the bid, to be carried out, the Engineer-in-charge shall give notice, in writing of the fact to the contractor, who shall have no claim to any payments or compensation, whatsoever, on account of any profit or advantage, which he might have derived from the execution of the work in full but which he did not derive in consequence of the full amount of the work not having been carried out. Neither, shall he have any claim for compensation by reason of alterations having been made in the original specifications, drawings and design and instructions, which shall involve any curtailment of the work as originally contemplated. Provided, that the contractor shall be paid the charges for the cartage only, of materials actually brought to the site of the work by him for bonafide use and rendered surplus as a result of the abandonment or curtailment of the work or any portion thereof, and taken them back by the contractor provided, however that the Engineer-in-charge shall have, in all such cases, the option of taking over all or any such materials at their purchase price or at local market rates whichever may be less. In the case the option of taking over all or any such materials at their purchase price or at local market rates whichever may be less. In the case of such stores, having been issued from Jaipur Development Authority stores, charges recovered, including storage charges, shall be refunded after taking into consideration



any deduction for claim on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of the Engineer in Charge shall be final.

Clause 14: Action and compensation payable in case of bad work:

If, it shall appear to the JDA or any authorized authority or the Engineer-in-Charge or his subordinates in charge of the work, or to the committee of retired officers / officers appointed by the Jaipur Development Authority for the purpose that any work has been executed with unsound, imperfect or unskillful workmanship, prior with material of any interior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted, or otherwise not in accordance with contract, the contractor shall be demand in writing from the Engineer in charge, specifically the work / materials or articles complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, will rectify or remove and reconstruct the work, so specified, in whole or in part, has the case may be, remove the materials or articles, so specialties and provide other proper and suitable materials or articles at his own cost and in the event of his failing to do so, within a period to be specified by the Engineer-in-charge in his demand, as aforesaid, then the contractor shall be liable to pay compensation, at the rate of one percent on the bided amount of work for every week not exceeding ten percent, while his failure to do so shall continue, and in the case of any such failure, the Engineer - in - Charge may rectify or remove and re-execute the work or remove and replace within others, the materials or articles or articles complained of as the case may be, at the risk and expense, in all respects of the contractor.

Clause 15: Work to be open to inspection: Contractor or his responsible agent to be present.

All work, under or in course of execution or executed in pursuance of the contract, shall at all times, be open to inspection and supervisor of the Engineer-in-charge and his superior officers e.g. Superintending Engineer, Additional JDA, Chief Technical Engineer, JDA, and his subordinates and any other authorized agency of the Jaipur Development Authority and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer in charge in or his subordinate and any other authorized agency of Jaipur Development Authority or committee of retired officers / officers appointed by the Jaipur Development Authority for the purpose to visit the works shall have been given to the Contractor, either himself be present to receive orders and instructions or have a reasonable agent, duly accredited in writing, present for the purpose. Orders given to the Contractor agent shall be considered to have the same force as if they had been given to the contractor himself.



Clause 16: Notice to be given before any work is covered up:

The Contractor shall give not less than 7 days notice, in writing, to the Engineer-in-Charge of the work, before covering up or otherwise placing beyond the reach of measurement, any work in order that they may be measured and correct dimensions thereof, be taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge of the work and if, any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at the Contractor's expenses or in default, thereof, no payment or allowance shall be made for such work, or for the materials, with which the same was executed.

Clause 17: Contractor liable for damage done and for imperfections:

If the Contractor or his work people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any building, road, fence, enclosure or cultivated ground continuous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work. While in progress, from any cause, whatsoever, or any imperfections become apparent in it, within a period specified in clause 37, after a certificate, final or otherwise of its completion, shall have been given by the Engineer-in-charge, may cause the same to be made good by other workmen and deduct the expense (of which the certificate of the Engineer-in-charge shall be final) from any sums that may be then, or at any time thereafter, may become due to the contractor, or from his security deposit, or the proceeds of sale thereof, or of a sufficient portion thereof.

Clause 18: Contractor to supply Plant, Ladders, Scaffolding etc.

The contractor shall arrange and supply, at his own cost, all material (except such special materials, if any, as may, in accordance with the contract, be supplied from the Engineer-in-charge's stores), plants, tools, appliances, implements, ladders, cordage, tackle, scaffolding and temporary works requisite or proper for the proper execution of the work, whether original, altered, or substituted, and whether included in the specification or other documents, forming part of the contract, or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge, as to any matter as to which, under the conditions, he is entitled to be satisfied of which he is entitled to require, together with carriage thereof, to and from the work. The contractor shall also arrange and supply, without charge, the requisite number of persons with the means and material necessary of the purpose of setting out work and counting, weighing and assisting, in the measurement or examination at any time and from time to time of the work, or materials. Failing his so doing, the same may be provided by the Engineer-in-charge at the expenses of the Contractor, and the expenses may be deducted from any money due to the Contractor under the contract, or from his performance Guarantee and / or security deposit or the proceeds of sale



thereof, or a sufficient portion thereof. The contractor shall also provide all necessary fencing and lights required to protect the public from accident and shall be bound to bear the expenses of difference of every suit, action or other proceeding at law, that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay any damages and costs, which may be awarded in any such suit, action proceedings to any such person or which may, with the consent of the Contractor be paid to compromise any claim by any such person.

Clause 19: Work not to be sub-let contract may be rescinded and security deposit and performance forfeited for sub-letting, bribing or if contractor becomes insolvent.

The contract shall not be assigned or sublet without the written approval of the JDA, and if the contractor shall assign or sublet his contract or attempt so to do, or become insolvent, or commence any insolvency proceedings or make any composition with his creditors, or attempt to so to do, or if any bribe, gratuity, gift, loan, requisite reward or advantage, pecuniary or otherwise, shall either, directly or indirectly, be given promised or offered by the Contractor or any of his servants or agents, to any public officer or person, in the employ of Government, in any way relating to his office or employment, or if any such officer or person shall become, in any way, directly or indirectly interested in the contract, the JDA may thereupon, by notice, in writing rescind the contract and the performance guarantee and security deposit of the contractor shall, thereupon, stand forfeited and be absolutely at the disposal of Jaipur Development Authority and the same consequences shall ensue as, if the contract had been rescinded under clause 3 thereof, and in addition the contractor shall not be entitled to recover or be paid for any work therefore, actually performed under the contract.

Clause 20: Sums payable by way of compensation to be considered as reasonable compensation without reference to actual loss:

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Jaipur Development Authority without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

Clause 21: Changes in Constitution of firm:

Where the Contractor is partnership firm, the previous approval, in writing, of the Engineer-in-charge shall be obtained before business any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval, as aforesaid, shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the work thereby undertaken by the contractor. If, previous approval, as aforesaid, is not obtained, the contract shall be deemed to have been assigned in contravention of clause 19 thereof, and the



same action may be taken and the same consequence shall ensure, as provided in the said clause 19.

Clause 22: Work to be under direction of Engineer-in-charge

All the works, to be executed under the contract, shall be executed under the direction and subject to the approval. In all respect, of the Engineer-in-charge of the Jaipur Development Authority for the time being, who shall be entitled to direct, of what point or points and in what manner, they are to be commenced and from time to time carried on.

Clause 23: Standing committee for Settlement of disputes:

If any question, difference or objection, whatsoever shall arise in any way, in connection with or arising out of this instrument, or the meaning of operation of any part thereof, or the rights, duties or liabilities of either party then, save in so far, as the decision of any such matter, as herein before provided for, and been so decided, every such matter constituting a total claim of Rs.50000/- or above, whether its decision has been otherwise provided for an whether it has been finally decided accordingly, or whether the contract should be terminated or has been rightly terminated and as regards the rights or obligations of the parties, as the result of such termination, shall be referred for decision to the Empowered Standing Committee, which would consist of the followings:-

1. Jaipur Development Commissioner, JDA, Jaipur -Chairman
2. Director (Engineering)-II, JDA, Jaipur
3. Director (Finance), JDA, Jaipur
4. Director (Law), JDA, Jaipur
5. Superintending Engineer, JDA, Jaipur - Member Secretary

The Engineer-in-charge, on receipt of application along with nonrefundable prescribed fee, (the fee would be two percent of the amount in dispute, not exceeding Rs. one lac) from the contractor, shall refer the disputes to the committee within a period of three months from the date of receipt of application.

The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications. Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the Bid Documents. None of these documents shall be used for any purpose other than that of this contract.

Procedure and application form referring cases for settlement by the Standing Committee shall be, as given in form RPWA 90.



Clause 23 A: Contractor to indemnify for infringement of Patent or design.

Contractor shall fully indemnify the Jaipur Development Authority against any action, claim or proceeding, relating to infringement or use of any patent or design or any alleged patent or design, rights, and shall pay any royalties, which may be payable in respect of any articles or part thereof included in the contract, in the event of any, claims made under or action brought against Government. In respect of any such matters, as aforesaid, the contractor shall be immediately, noticed thereof, and the contractor shall be at liberty at his own expense, to settle any dispute or to conduct any litigation, that may arise there from provided that the contractor shall not be liable to indemnify the Jaipur Development Authority, if the infringement of the patent or design or any alleged patent, or design, right is the direct result of an order passed by the Engineer-in-charge in his behalf.

Clause 24: Imported Store articles to be obtained from Government:

The contractor shall obtain from the stores of the Engineer-in-charge, all imported store articles, which may be required for the work or any part thereof, or in making up articles required thereof, or in connection therewith, unless he has obtained permission in writing, from the Engineer-in-charge, to obtain such stores and articles from elsewhere. The value of such stores and articles, as may be supplied to the contractor by the Engineer-in-charge, will be debited to the contractor, in his account, at the rates shown in the schedule attached to the contract, and if they are not entered in the schedule, they will be debited at cost price, which for the purposes of this contract, shall include the cost of carriage and all other expenses, whatsoever, which shall have been incurred in obtaining delivery of the same at the stores aforesaid plus storage charges.

Clause 25: Lump sums in estimates:

When the estimate on which a bid is made includes lump sums, in respect of parts of the work, the contractor shall be entitled to payment in respect of the item of work involved, or the part of the work in question at the same rates, as are payable under the contract for such items or if the part of the work in question is not, in the opinion of the Engineer-in-charge capable of measurement, in Engineer-in-charge may at his discretion pay the lump sum amount entered in the estimate and the certificate in writing of the Engineer-in-charge shall be final and conclusive with regard to any sum or sums payable to him under the provisions of this clause.

Clause 26: Action where no Specification:

In case of any class of work for which there is no such specification as is mentioned in rule 1, such work shall be carried out in accordance with the detailed specification of the department and also in accordance with the instructions and requirement of the Engineer-in-charge.



Clause 27: Definition of work;

The expression "Work" or "Works" where used in these conditions, shall unless there be something either in subject or context, repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed, whether temporary or permanent, and whether original, altered, substituted or additional.

Clause 27 A: Definition of Engineer-in-charge.

The term :Engineer-in-charge" means the Executive Engineer, who shall supervise, and be in charge of the work, and who shall sign the contract on behalf of the Jaipur Development Commissioner of Jaipur Development Authority.

Clause 28:

It cannot be guaranteed that the work will be started immediately after the bids have been received. No claims for increase of rate will be entered, if the bids for starting work are delayed.

Clause 29: Payments at reduced rates on account of items of work not accepted and not completed to be at the discretion of the Engineer-in-charge.

The rates for several items of works, estimated to cost more than Rs.1000/- agreed within, will be valid only when the item concerned is accepted, as having been completed fully in accordance with the sanctioned specifications. In cases, where the items of work are not accepted, as so completed, the Engineer-in-charge may make payment on account of such items, at such reduced rates as he considers reasonable, in the preparation of final or on account bills, and his decision in the matter shall be final and binding.

Clause 29A: Payments at part rates:

The rates for several items of works may be paid at his rates provisionally in running bills in proportion to the quantum of items executed at the discretion of Engineer-in-charge. In case of item rates, if the rate quoted for certain items are very high in comparison to the average / overall bid premium, then the payment at running stages shall not be made more than the average sanctioned premium. The deferred payment, will however be released after successful completion of the work.



Clause 30: Contractor's percentage, whether applied to net or gross amount of bills:

The percentage referred to in the "Bid of Works" will be deducted / added from / to the gross amount of the bill before deducting the value of any stock issued.

Clause 31: Contractor to adhere to labour laws / regulation:

The contractor shall adhere to the requirements of the Workmen's Compensation Act and Labour Legislation in force from time to time and be responsible for and shall pay any compensation to his workmen which would be payable for injuries under the workmen Compensation Act, hereinafter called the said Act. If such compensation to his workmen which would be payable for injuries under the Workmen's Compensation Act, hereinafter called the said Act. If such compensation is paid by the State as Principal employer under sub Section (1) of section 12 of the said Act, on behalf of the contractor it shall be recoverable by the State from the Contractor under sub section (2) of the said section. Such compensation shall be recovered in the manner laid down in clause I of the conditions of contract.

Note: All Contractors with Government shall require registration of workers under the Building & other Construction Workers (Regulation of Employment & Conditions of Services) Act, 1996 and extension of benefit to such workers under the Act.

Clause 32: Withdrawal of work from the Contractor:

If the Engineer-in-charge shall at any time and for any reasons, whatsoever, including inability to maintain prorate progress, think any portion of the work should not be executed or should be withdrawn from the contractor, he may, by notice in writing to that effect require the contractor not to execute the portion of the work specified in the notice or may withdraw from the contractor for the portion of work, so specified, and the contractor shall not be entitled to any compensation, by reason of such portion of work having been withdraw from him. The Engineer-in-charge may supplement the work by engaging another agency to execute such portion of the work at the cost of the original contractor, without prejudice to his rights under Clause 2. He shall also be competent to levy compensation for delay in progress. The recovery of excess cost shall be made from next available running bill or any other claim and shall not be deferred.

Clause 33: The contractor includes clearance, leveling and dressing of site within a distance of 15 meters of the structure / building on all sides except where the building adjoins another building.



Clause 34: Project Works:

The contractor shall arrange to protect, at his own cost, in an adequate manner, all cut stone work and other work requiring protection and to maintain such protection, as long as work is in progress. He shall remove and replace this protection, as required by the Engineer-in-charge, from time to time. Any damage to the work, so protected, no matter how it may be caused, shall be made good by the contractor free of cost.

All templates, forms, moulds, centering, false works and models, which in the opinion of the Engineer-in-charge are necessary for the proper and workman like execution of the work, shall be provided by the Contractor free of cost.

Clause 35: Contractor liable for settlement of claims caused by his delays:

If the progress of the work has fallen so much in arrears as to prevent other contractors on the work, from carrying out their part of the work within the stipulated time, he will be liable for settlement of any claim, put in by any of these contractors for the expenses of keeping their labour unemployed, to the extent considered reasonable by the Engineer-in-charge.

Clause 36A: The liability, if any, on account of quarry fees, royalties, octroi and any other taxes and duties in respect of materials actually consumed on public work, shall be borne by the Contractor.

Clause 36B:

The cost of all water connections, necessary for execution of work, and the cost of water consumed and hire charges of meters and the cost of electricity consumed in connection the execution of work, shall be paid by the Contractor except where other specifically indicated.

Clause 36C: Payment of Sales Tax and any other Taxes:

Royalty or other tax on materials, issued in the process of fulfilling contract payable to the Jaipur Development Authority under rules in force will be paid by the Contractor himself.

Clause 36D:

In respect of goods and materials procured by the Contractor for use in works under the contract, sales tax will be paid by the contractor, himself. But in respect of all such goods manufactured and supplied by the Contractor and works executed under the contract, the responsibility of payment of Sales tax would be that of the Engineer-in-charge.



Clause 37: Refund of Performance Guarantee and Security Deposit:

The performance Guarantee and / or security deposit will be refunded after the expiry of the period, as prescribed below:-

- (a) In case of contracts relating to hiring of trucks and other 'T' & 'P' transportation including loading, unloading of materials, the amount of performance guarantee / security deposit is refundable along with the final bill.
- (b) Supplies of material: As per provision of the G.F. & A.R.
- (c) Ordinary repair: 3 months after completion of the work provided the final bill has been paid.
- (d) Original works / special repairs / renewal works: Six months after completion except in case of works, such as building works, bridge works, cross drainage work, Dams, canals water supply and sewerage schemes (except where provided otherwise in any specified case) etc., the Performance Guarantee / Security Deposit will be refunded 6 months after completion or expiry of one full rainy season, or after expiry of defect liability period as defined in the special condition of agreement whichever is later, provided the final bill has been paid.

(Regarding "refund of performance guarantee and security deposit").

"In case of road, bridge and CD works (original/special, repairs/renewals). The defect Liability period shall be three years after completion of works".

- (e) In case of JDA original works/special repairs works costing more than 10.00 lacs, partial amount of Security Deposit will be refunded during the defect liability period @ 10% of SD amount after lapse of one year of completion and thereafter 10% of original amount of SD at the end of each subsequent year. The remaining amount of SD be refunded after the expiry of defect liability period.

Clause 38: Fair Wage Clause:

- (a) The Contractor shall pay not less than fair wages / minimum wages to laborious engaged by him on the work as revised from time to time by the Jaipur Development Authority but the Jaipur Development Authority shall not be liable to pay anything extra for it except as stipulated escalation clause (clause 45) of the agreement.



Explanation: Fair wage means minimum wages for time or piece work, fixed or revised, by the State Govt. the Minimum Wages Act. 1948.

- (b) The Contractor shall, notwithstanding the provisions of any contract to the country, cause to be paid fair wages to labourers indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work as if the labourers have been immediately or directly employed by him.
- (c) In respect of all labourers immediately or directly employed on the work, for the purpose of the contractor's part of this agreement, the Contractor shall comply with or cause to be complied with the Public Works Department Contractors Labour Regulations made, or that may be made by the Government, from time to time. With regard to payment of wages, wages period, deductions from wages, recovery of wages not paid, and unauthorized deductions, maintenance of wages register, wages card, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and other matters of a like nature.
- (d) The Engineer-in-charge shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers, by reasons of non-fulfillment of the conditions of the contract, for the benefit of the worker or workers, non-payment of wages or of deductions made therefrom, which are not justified by the terms of the contract, or as a result of non - observance of the aforesaid regulations.
- (e) Vis-à-vis the Jaipur Development Authority of Rajasthan, the Contractor shall be primarily liable for all payments to be made and for the observance of the regulations aforesaid, without prejudice to his right to claim indemnify from his sub-contractors.
- (f) The regulations, aforesaid, shall be deemed to be part of this contract and any breach, thereof, shall be deemed to be breach of the contract.

Clause 39: Contractor to engage technical staff:

The contractor shall engage the technical staff as follows, on the contract works.

- a) Project manager/Bridge Engineer- He should be a graduate engineer having overall experience of not less than 15 years out of which 10 years' experience should be of Bridge works. If the contractor fails to appoint such project manager, Rs. 1,00,000/- (Rupees One Lakh only) per month will be deducted.



- b) Senior Site Engineer- One graduate engineer having experience of 10 years out of which 5 years experience should be of Bridge works. If the contractor fails to appoint senior site engineer, Rs. 50,000/- (Rupees Fifty Thousand) per month will be deducted.
- c) Site Engineer- One graduate/diploma engineer having experience of 05 years. If the contractor fails to appoint such site engineer, Rs. 25,000/- (Rupees Twenty Five Thousand) per month will be deducted.
- d) Quantity Surveyor- One diploma engineer having experience of 02 years. If the contractor fails to appoint such quantity surveyor, Rs. 20,000/- (Rupees Twenty Thousand) per month will be deducted.
- e) However, in the event of non appointment of such technical personnel's, JDA may engaged such technical personnel and actual salary will be deducted in addition to the deductible amount mentioned in clause 39 (a), (b), (c) & (d). The contractor, before appointing these technical personnel will have to got the CV approved by the JDA.

The technical staff should be available at site, whenever required by Engineer-in-charge to take instructions.

Clause 39A: The contractor shall comply with the provisions of the Apprenticeship Act, 1961, and the Rules and orders issued, there-under, from time to time. If he fails to do so, his failure will be a breach of contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of said Act.

Clause 40: Safety of Works: The Contractor shall follow the safety code. The contractor shall be fully responsible for safety of works at site taking note of all the necessary provisions as per Employer's conditions of contract for Safety, Health and Environment Manual (SHE Manual) available at Section 7, which shall be binding on the contractor. The contractor's price shall be inclusive of all the necessary costs to meet the prescribed safety standards. In the case the contractor fails in the above, the Employer may provide necessary arrangements and recover the cost from contractor.

Clause 41: Near Relatives barred from tendering: The contractor shall not be permitted to bid for works, in same Circle, in which his near relative is posted as Accountant or as an officer in any capacity between the grades of the Superintending Engineer and Assistant Engineer (both inclusive). He shall also intimate the names of persons, who are working with him in any capacity or are subsequently employed by him and who are near relative to any gazetted officer in the organization / Department. Any breach of this condition by the contractor would render him liable to be removed from the approval list of contractors of the Department. If such facts is noticed (a) before sanction of bid, his offer shall be declared invalid and earnest money shall be forfeited, (b) after sanction of the bid then bid sanctioning authority may at his discretion forfeit



his earnest money, performance guarantee, security deposit and enlistment deposit and the work / remaining work may allot to any registered contractor on the same rates as per rules.

Note : By the term 'near relative' is meant wife, husband, parents and grandparents, children and grand children, brothers and sisters, uncles and cousins and their corresponding in laws.

Clause 42: Retired Gazetted Officers barred for 2 years: No Engineer of Gazetted rank or other Gazetted officer, employed in Engineering or Administrative duties in an Engineering Department of the Jaipur Development Authority, is allowed to work as a contractor for a period of 2 years, of his retirement from Jaipur Development Authority Service without the previous permission of Jaipur Development Authority. The contract is liable to be cancelled, if either the contractor or any of his employee found, at any time, to be such a person, who had not obtained the permission from as aforesaid before submission of the bid or engagement in the contractors service as the case may be.

Clause 43: Quality Control

The Jaipur Development Authority shall have right to exercise proper quality Control measures.

Clause 43A :

The work whether fully constructed or not and all materials machinery tools and plant scaffolding temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer in charge and a certificate from him to effect obtained.

Clause 44: death of Contractor:

Without prejudice to any of the rights or remedies under the contract, if the contractor dies, the legal heirs of the contractor or the JDA or duly authorized Engineer shall have the option of terminating the contract without any compensation.

Clause 45: Price variations Clause:

If during the progress of the contract of value exceeding Rs. 50.00 lacs (accepted tendered amount minus cost of material supplied by the department) and where stipulated completion period is more than 3 months (both the conditions should be fulfilled). The price of any materials/ bitumen / diesel / petrol / cement and steel incorporated in the works (not being materials to be supplied by the department) and / or wages of labour increases or decreases, as compared to the price and / or wages prevailing at the last date of submission of bid. The amount



payable to contractors for the work shall be adjusted for increase or decrease in the rates of materials (excepting those materials supplied by the department)/ labour / bitumen diesel / petrol / cement and steel.

Increase or decrease in the cost of labour / material / bitumen / cement / diesel and petrol shall be calculated and petrol shall be calculated quarterly in accordance with the following formula.

(a) Labour :

$$V_L = 0.75 \times \frac{P_L}{100} \times R \frac{(I_{L1} - I_{L0})}{I_{L0}}$$

V_L = Increase or decrease in the cost of work during the quarter under consideration due to change in rates for labour.

R = The value of the work done in rupees during the quarter under consideration excluding the cost of materials supplied by the department and excluding other items as mentioned in the clause.

I_{i0} = The average consumer price index for industrial workers (whole-sale prices) for the quarter in which the last date of bid submission falls (as published in Reserve Bank of India Journal / labour Bureau Shimla, for the area).

L_{i1} = The average consumer price index for industrial workers (whole-sales-price) for the quarter of calendar year under consideration (as published in Reserve Bank of India Journal / labour Bureau Shimla, for the area).

P_L = Percent of Labour components.

Note :In case of revision of minimum wages by the Jaipur Development Authority or other competent authority, nothing extra would be payable except the price escalation permissible under this clause.

(B) Material (excluding material supplied by the department)

$$V_M = 0.75 \times \frac{P_M}{100} \times R \frac{(L_{LM1} - L_{M0})}{L_{M0}}$$

V_M = Increase or decrease in the cost during the quarter under consideration due to change in the rates of material.

R = The value of the work done in rupees during the quarter under consideration excluding the cost of materials supplied by the department and excluding other items as mentioned in this clause.



L_{MO} = The average wholesale price index (all commodities) for the quarter in which last date of bid submission falls (as published in Reserve Bank of India Journal / Economic Advisor to Government of India, Ministry of Industries, for the area).

L_{M1} = The average wholesale price index (all commodities) for the quarter under consideration (as published in Reserve Bank of India Journal / Economic Adviser to Government of India. Ministry of Industries, for the area).

P_M = Percentage of material component (excluding materials supplied for the Department).

(c) Bitumen

$$V_b = \frac{0.85 \times P_b \times R (B_1 - B_0)}{100 B_0}$$

V_b = Increase or decrease in the cost of the work during the month under consideration due to changes in the rate for bitumen.

R = The value of the work done in rupees during the quarter under consideration excluding the cost of material supplied by the department and excluding other items as mentioned in this clause.

B_0 = The official retail price of bitumen at the IOC depot it nearest center on the day 28 days prior to last date of submission of Bid.

B_1 = The official retail price of bitumen of IOC depot it nearest center for the 15 day of the month under consideration.

P_b = Percentage of bitumen component of the work.

(D) Petroleum

$$V_1 = \frac{0.75 \times P_1 \times R (F_1 - F_0)}{100 F_0}$$

V_1 = Increase or decrease in the cost of work during the month under consideration due to change in the rate for fuel and lubricants.

R = The value of the work done in rupees during the quarter under consideration excluding the cost of materials supplied by the department and excluding other items as mentioned in this clause.



F_0 = The average wholesale price index of high speed diesel (HSD) as published by the Economic Advisor to the Government of India, Ministry of Industry on the last day of submission of bid.

F_1 = The average wholesale price index HSD for the quarter under consideration as published weekly by the Economic Advisor to the Govt. of India, Ministry of Industry for the quarter under consideration.

P_1 = Percentage of fuel and lubricants component excluding fuel and lubricants supplied by the Department (Specified in the sanctioned estimate for the work).

P = Percentage of fuel and lubricants component excluding fuel and lubricants supplied by the Department (Specified in the sanctioned estimate for the work).

R = Total work done during the quarter as prescribed under this clause.

Note: For application of this clause price of HSD is chosen to indicate fuel and lubricant component.

(e) Cement

$$V_c = \frac{0.75 \times P_c \times R (L_{CI} - L_{CO})}{100 L_{CO}}$$

V_c = Increase or decrease in the cost of the work during the quarter under consideration due to change in the rates of cement.

R = The value of the work done in rupees during the quarter under consideration excluding the cost of cement supplied by the department and excluding other items as mentioned in this clause.

L_{CO} = The average wholesale price index for the quarter in which last date of bid submission falls (as published by the Economic Adviser to Government of India, Ministry of Industries).

L_{CI} = The average wholesale price index for the quarter under consideration (as published by the Economic Adviser to Government of India, Ministry of Industries).

P_c = Percentage of cement components (excluding cement supplied by the Department).



(F) Steel

$$V_s = 0.75 \times \frac{P_c \times R (L_{S1} - L_{SO})}{100 L_{SO}}$$

V_s = Increase or decrease in the cost of the work during the quarter under consideration due to change in the rates of steel.

R = The Value of the work done in rupees during the quarter under consideration excluding the cost of steel supplied by the department and excluding other items as mentioned in this clause.

L_{SO} = The average wholesale price index for the quarter in which last date of bid submission falls (as published by the Economic Adviser to Government of India, Ministry of Industries).-For steel Rods

L_{S1} = The average wholesale price index for the quarter under consideration (as published by the Economic Adviser to Government of India, Ministry of Industries).- For steel Rods

Clause 45A: Price Variation in installation of elevators supply/installation of Centrally Air Conditioning and Central Evaporation Cooling Works.

In all cases of contracts for installation of elevators, supply/installation of Central Air Conditioning and Central Evaporation Cooling Works, the Price quoted shall be based on the Indian Electrical and Electronic Manufacturers Association (IEEMA) price variation clause based on the cost of raw materials/components and labour cost as on the date of quotation/bid and the same is decided to be related to wholesale price index number of metal products and All India Average consumer price index number of industrial workers as specified below. In case of any variation in these index numbers the prices shall be adjustment up or down in accordance with following formula:

$$P = \frac{P_0}{100} \{ 15 + 55 \frac{MP}{MP_0} + \frac{W_o(D)}{W_o} + 15 \frac{W_o(I)}{W_o} \}$$

Where :

P = Price payable as adjusted in accordance with the price variation formula.

P_0 = Price quoted/confirmed

MP_0 = Wholesale Price Index Number for metal products as published by the office of the Economic Adviser, Ministry of Industry, Government of India, in their weekly bulleting, Revised Index Number of Wholesale Price (Base 1981-82 =100 for the week ending first



Saturday of the relevant calendar month). The relevant month shall be that in which price was offered or negotiated whichever is later.

W_0 = All India Average Consumer Price Index Number for Industrial Workers (Base : 1982 = 100), as published by Labour Bureau, Ministry of Labour, Government of India, for relevant calendar Month. The relevant Month shall be that in which price was offered or negotiated whichever is later.

M_p = Wholesale Price Index Number of Metal Products as published by the office of Economic Adviser, Ministry of Industry, Government of India, in their weekly bulletin Revised index Number of wholesale price (Base : 1981-82 = 100). The applicable wholesale Price Index Number for Metal Products as pre-availing on 1st Saturday of the Month covering the date FOUR months price to the date of delivery and would be as published by IEEMA.

$W_{O(1)}$ = All India Average Consumer Price Index Number for Industrial workers (Base : 1982 = 100) as published by Labour Bureau, Ministry of Labour, Government of India. The applicable All India Consumer Price Index Number of Industrial workers prevailing for the FOUR months prior to the date of completion of installation/Progress parts of installation and would be as published by IEEMA. The date of delivery shall be the date on which the manufactured material is actually supplied at site. The data of completion of installation (or progress part of installation shall be the date on which the work is notified as being completed and is available for inspection/duly tested). In the absence of such notification, the date of completion is not intimated, such completion shall be considered by the Engineer-in-charge which shall be final.

Note-1 The wholesale price index number for metal products is published weekly by the office of the Economic Adviser, but if there are any changes, the same are incorporated in the issue appearing in the following week. For the purpose of this price variation clause, the final index figures shall apply.

Note- 2 The sole purpose of the above stipulation is to arrive at the entire contract under the various situations. The above stipulation does not indicate any intentions to sell materials under this contact as movables.

Note- 3 The indices MP & Work are regularly published by IEEMA in monthly basic price circulars based on information bulletins from the authorities mentioned. These will be used for determining price variation and only IEEMA circulars will be shown as evidence, if required.



GENERAL CONDITIONS FOR ADMISSIBILITY OF ESCALATION

1. The exact percentage of labour/material (excluding materials to be supplied by the department /battements/diesel and petrol compensate and labour component for the work shall be approved by the authority while sanctioning the detailed estimates.
2. The breakup of components of labour/materials (excluding materials to be supplied by the department) bitumen/diesel and petrol as indicated in clause 45 have been pre-determined as bellows:

(a)	Labour	-	13.72%
(b)	Other Material	-	56.11%
(c)	Bitumen	-	0.89%
(d)	POL-P	-	1.87%
(e)	Cement	-	6.29%
(f)	Steel	-	21.12%
	Total	-	100.00%

3. While allowing price escalation the following shall be deducted from the value of the of work done ® (a) cost of material supplied by the department (b) cost of services rendered as per clause 34 (c) of secured Advance/any advance added earlier but deducted agreed rates. Now after work is measured (d) cost of extra items, the rates for which have been worked out based on market rates/ mutually agreed rates.
4. The first statement escalation shall be prepared at the end of three months in which the work was awarded and the work done from the date of start to the end of this period shall be taken into account. For subsequent statement cost of work done during every quarter shall be taken into account. At the completion of work the work done during the last quarter of fraction there of shall be taken into account.
5. For the purpose of reckoning the work done during any period the bills prepared during the period shall be considered. The dates of recording measurements in the Measurement book by the Assistant Engineer shall be the guiding factor to decide the bills relevant to any period. The date of completion as finally recorded by the competent authority in the measurement Book shall be the criterion.
6. The index relevant to any quarter for which such compensation is paid shall be the arithmetical average of the indices relevant of the calendar month.



7. Price adjustment clause shall be applicable only the work that is carried out with the stipulated time or extension thereof as are not attributable to the contractor.
8. If during the progress in respect of contract works stipulated to cost Rs. 50 lac or less the value of work actually done excluding cost of Material supplied by the Department exceeds Rs. 50 lac and completion period is more than 3 months then escalation would be payable only in respect of value of work in excess over Rs. 50 lac from the date of satisfying both the conditions.
9. Where originally stipulated period is 3 months or less but actual period of extension exceeds beyond 3 months on account of reasons not attributable to contractor escalation amount would be payable only in respect of extended period if amount of work is more than Rs. 50 lac.
10. In case the contractor does not make prorate progress in the first or another time span and the short fall in progress is covered up by him during subsequent time span within original stipulated period then the price escalation of such work expected to be done in the previous time span shall be notionally given based upon the price index of that quarter in which such work was required to be done.
11. No claims for price adjustment other than those provided herein shall be entertained.
12. If the period of completion including extended period attributable to Jaipur Development Authority exceeds twelve months but cost does not exceeds more than Rs. 50 lacs no escalation is admissible.
13. Similarly if cost of works increases more than Rs. 50 lac but completion period including extended period attributable to Jaipur Development Authority is less than 3 months no escalation is admissible.
14. No provisional escalation is payable on the basis of indices of the previous quarter in absence of non pub location of indices in concede quarter by the RBI.
15. Escalation is always payable quarterly and no provisional escalation is payable monthly or fortnightly.
16. In case at the time of executing agreement both the conditions (completion period 3 months and amount of work Rs. 50 lac for admissibility of price escalation are not fulfilled and subsequently due to additional work and extension of time attributable to Jaipur Development Authority both the conditions become fulfilled in that case the escalation shall be payable from the date of satisfying both the conditions and only for work done beyond Rs. 50 lacs and in period of work beyond 3 months.
17. The contractor shall for the purpose of this conditions keep such books of account and other documents as are necessary to show the amount of any increase climbed or



reduction available and shall allow inspection of the same by a duly authorized representative of Jaipur Development Authority and further shall at the request of the Engineer in charge furnish verified in such a manner as the Engineer in charge may require any documents so kept and such other information as the Engineer in charge may require.

Clause 46 Force Majeure:

Neither party shall be liable to each other for any loss or damage occasioned by or arising out of acts of God such as unprecedented floods volcanic eruptions earthquake or other invasion of nature and other acts.

Clause 47: General discrepancies and errors:

In case of percentage rate bids if there is any typographical or clerical error in the rates shown by the Department in the “G” schedule the rates as given in the basic schedule of Rates of the Department of the area shall be taken as correct.

Clause 48: Post payment audit & technical examination:

The Jaipur Development Authority shall have right to cause an audit and technical examination of the works, and the final bills of the contractor, including all supporting vouches, abstracts etc., to be made within 2 years after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been over paid in respect of any work done by the contractor under the contract or any work claimed by him to have been done by him under the contract and found not to have been executed below specifications, the contractor shall be liable to refund the amount of over payment and it shall be lawful for Department in recover the same from him in the manner prescribed in clause 50 or in any other manner legally permissible and if it is found that the contract was paid less than what due to him under the contract in respect of any work executed by him under it the amount of such under payment shall be duly paid by the Jaipur Development Authority to the contractor.

Clause 48A: Pre check or post check of Bills:

The Jaipur Development Authority shall have right to provide a system of pre-check of contractor bills by specified organization and payment by an Engineer or an accounts officer/Sr. Accounts Officer/Chief Accounts Officer/ Financial advisor as the Jaipur Development Authority may in its absolute discretion prescribe any overpayments/excess payments detected as a result of such pre-check or post check of contractor's bills can be recovered from the contractor's bills in the manner herein before provided and the contractor will refund such over/excess payments.



Clause 48 B: Check Measurements:

The department reserves to itself the right to prescribe a scale of check measurement of work in general or specific scale for specific works or by other special orders (about which the decision of the department shall be final) checking of measurement by superior officer shall supersede measurements by the subordinate officer and the former will become the basis of the payment. Any over/excess payment detected as a result of such check measurement or otherwise at any stage upto the date completion and the defect removal period specified elsewhere in this contract shall be recoverable from the contractor as any other dues payable to the government.

Clause 49: Dismantled Materials:

The Contractor in course of the work should understand that all materials e.g. bricks still and other obtainable in the work by dismantling etc. will be considered as the property of the Jaipur Development Authority and will be disposed off to the best advantage of the Jaipur Development Authority as per directions of the Engineer in-charge.

Clause 50: Recovery from contractors:

Whenever any claim against the contractor for the payment of a sum of money arises out of or under the contract the Department shall be entitled to recover such sum by appropriating in part or whole of the performance guarantee and/or security deposit. Security Deposit at the time of enlistment of the contractor. In the event of the security being insufficient or if no security has been taken then the balance or the total sum recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the contractor, under this or any other contract with the Jaipur Development Commissioner of Jaipur Development Authority of Rajasthan should this sum be not sufficient to cover the full amount recoverable the contractor shall pay to the department on demand the balance remaining dues.

The department shall further have the right to affect such recoveries under public Demands recovery Act.

Clause 51: Jurisdiction Court:

In the event of any dispute arising between the parties hereto in respect of any of the matters comprised in this agreement the same shall be settled by a competent court having jurisdiction over the place where agreement is executed and by no other court after completion of proceeding under clause 23 of this contract.



Schedule of Material to be supplied by the Department if available

(Referred is in Clause 10)

S.No.	Particulars	Quantity	Rates		Place of Delivery
			Unit	Rupees	
1	NIL	NIL		NIL	

Schedule of Machinery /T&P to be supplied by the Department:

The following Machinery/ T & P shall be supplied by the Department if available to the contractor on hire as per rules of the Department for supply for machinery /T& P to the contractors on hire charges (Referred to in Clause 10 C)

S.No.	Item	Rate (Rs.)	Place of Delivery Return
1	NIL	NIL	

Progress Statements referred to in clause 2 of conditions of contract.

Name of work	Date from which the work should be commenced	Date by which the work should be completed	Monthly rate of progress
1	2	3	4

The contractor has been informed that his bid has been accepted.

DatedSignature Dated.....Signature of Contractor



Notes: For Filling in the Progress Statement Form

1. Columns 2, 3 and 4 must be initialed and dated by the contractor.
2. Column 4 must be initialed and dated by the JDA or other duly authorized Engineer also.
3. The date in column 2 correspond to the date on which the order to commence work is given to the contractor read with clause 2 of the conditions of contract.
4. The date in column 3 must correspond to the period stated in sub clause (e) of the Memorandum below bid for works:
5. Column 4 this will ordinarily be worked out proportionately thus for example if ` 240000/- is the cost of whole or portion of work bided for and six months period of completion then the monthly rate of progress should be Rs. 4000. If necessary quantities may also be specified in this column at the discretion of the JDA.
6. The certificate as to intimation of acceptance of bid printed at the foot of the form must be signed and dated both by the Director (Engineering)-II or other duly authorized Engineer and the contractor.



ANNEXURE TO APPENDIX XI
RAJASTHAN PUBLIC WORKS DEPARTMENT CONTRACTORS
LABOUR REGULATIONS

1. **Short Title:** These Regulations may be called "The Rajasthan Public Works Department Contractor's-Labour Regulations."
2. **Definition :** In these Regulations unless otherwise expressed or indicated, the following works and expressions shall have the meaning hereby assigned to them respectively, that is to say -
 - (i) **"Labour"** means works employed by a Rajasthan P.W. Department contractor directly or indirectly through a sub-contractor or other person by an agent on his behalf.
 - (ii) **"Fair Wage"** means minimum wages for time or piece work fixed or revised by the State Government under the Minimum Wages Act, 1948.
 - (iii) **"Contractor"** shall include every person whether sub-contractor or headman or Agent employing labour on the work taken on contract.
 - (iv) **"Wages"** shall have the same meaning as defined in the Payment of Wages Act and includes time and piece, rate wages.
3. **Display of Notice regarding wages etc.:** The contractor shall (a) before he commences his work on contract, display and in conspicuous place on the work notices in English and the correctly maintain in Hindi by the majority of the workers giving the rate of wages which have been certified by the Executive, Engineer, the Superintending Engineer, the Chief Engineer or Labour Commissioner as fair wages and the hours of works for which such wages are earned, and (b) such a copy of such notices to the Certifying Officers.
4. **Payment of Wages :**
 - (i) Wages due to every worker shall be paid to him direct.
 - (ii) All wages shall be paid in current coin or currency or in both.
5. **Fixation of wage periods :**
 - (i) The contractor shall fix the wage periods in respect of which the wages shall be payable.
 - (ii) No wage period shall exceed one month.
 - (iii) Wages of every workman employed on the contract shall be paid before the expiry of ten days after the last day of the wage period in respect of which the wages are payable.
 - (iv) When the employment of any worker is terminated by or on behalf of the contractor, the wages earned by him shall be paid before the expiry of the day succeeding the one on which his employment is terminated.



- (v) All payments of the wages shall be made on a working day except when the work is completed before the expiry of the wage period, in which case, final payments shall be made within 48 hours of the last working day.

Note: The term "working day" means a day on which labour is employed in progress.

6. Wage Book and Wage Slips etc.

- (i) The contractor shall maintain a Wage Book of each worker in such form as may be convenient but the same shall include the following particulars :-
- (a) Rate of daily or monthly wages.
 - (b) Nature of work on which employed.
 - (c) Total number of days worked during each wage period.
 - (d) Total amount payable for the work during each wage period.
 - (e) All deductions made from the wages with an indication in each case of the ground for which the deduction is made.
 - (f) Wages actually paid for each wage period.
- (ii) The contractor shall also maintain a wage slip for each worker employed on the work.
- (iii) The Executive Engineer may grant an exemption from the maintenance of the wage books and wages slips to a contractor who, in his opinion, may not directly or indirectly employ more than 50 persons on the work.

7. Fines and deductions which may be made from wages:

- (i) The wages of a worker shall be paid to him without any deductions of any kind except those authorized, namely the following:
- (a) Fines
 - (b) Deductions for absence from duty i.e. from the place or places where, by the terms of his employment, he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
 - (c) Deductions for damages to or loss of goods expressly entrusted to the employed person for custody or for loss or any other deductions of money, which he is required to account where such damages or losses are directly attributable to his neglect or default.
- (i) The Rajasthan Government may, from time to time, allow deductions other than those specified in clause I above.



-
- (ii) No fines shall be imposed on a worker and on deduction for damage or loss shall be made until worker has been given an opportunity or showing cause against each fine or deductions.
- (i) The total amount of fines, which may be imposed in any one wage period on a worker, shall not exceed an amount equal to three paise in rupee of the wage payable to him in respect of that wage period.
- (ii) No fine imposed on any worker shall be recovered from him by installments or after expiry of 60 days from the date on which it was imposed.
8. **Register of fines etc.:** The contractor shall maintain a register of fines and of all deductions for damage or loss. Such register shall mention the reasons for which fine was imposed or deduction for damage or loss was made. The Contractor shall maintain both in English and local Indian Language a list approved by the labour Commissioner clearly stating the acts and omission for which penalty or fine may be imposed on a workman and display it in a good condition in conspicuous place on the work.
9. **Preservation of Register:** The wage register, the wage card and the register of fines deduction required to be maintained under these regulations, shall be preserved for 12 months after the date or the 1st entry made in them.
10. **Powers of Labour Welfare Officer to make investigation of enquiry:** The Labour Welfare Officer or any other person, authorized by the State Government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of the fair wage clauses and provisions of the regulations. He shall investigate into any complaint regarding default made by the Contractor or Sub-Contractor in regard to such provisions.
11. **Report of Labour Welfare Officer:** The Labour Welfare Officer or other person, authorized as aforesaid, shall submit a report of the result of his investigation or enquiry to the Executive Engineer concerned indicating the extent, if any to which the defaults has been committed with a note that necessary deductions from the contractors bill be made and the wage and other dues be paid to the labour concerned in case an appeal is made by contractor under clause 12 of these regulations, actual payment to Labours will be made by the Executive Engineer after the Labour Commissioner had give decision on such appeal.
12. **Appeal against the decision of labour Welfare Officers:** Any person aggrieved by the decision and recommendation of the Labour Officer or other persons, so authorised, and may appeal against. Such decision to the Labour Commissioner within 30 days from the date do decision forwarding simultaneously a copy of his appeal to Executive Engineer



concerned but subject to such appeal the decision of the Officer shall be final and binding upon the contractor.

- 12-A.** No Party shall be allowed to be represented by a lawyer during any investigation enquiry appeal or any other proceedings
- 13. Inspection of Wage Books and Slips:** The contractor shall allow inspection of the wage books and wage slips and register of fines and deductions to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Welfare Officer or any other person authorized by the State Government on his behalf.
- 14. Submission of Returns:** The contractor shall submit periodical returns as may be specified from time to time.
- 15. Amendments:** The Jaipur Development Authority may from time to time add to or amend these regulations and on any questions as to the application interpretation effect of these regulations the decision of the Labour commissioner to the Jaipur Development Authority or any other person authorized by the State Jaipur Development Authority in that behalf shall be final. Progress Statement referred to in Clause 3 of Conditions of Contract.

Name of works	Date from which the work should be commenced	Date by which the work should be completed	Monthly rate of progress
1	2	3	4

The contractor has been informed that this bid has been accepted.

Date :

Sig.Engineer in charge

Date:

Sig.Contractor



**NOTES FOR FILLING IN THE PROGRESS STATEMENT FROM THE LAST
PAGE**

1. Columns 2,3 and 4 must be signed and dated by the contractor,
2. Column 4 must be signed and dated by the Director (Engineering) or other duly authorized Engineer also.
3. The date in column 2 should correspond to the date on which the order to commence works is given to the contractor specified in line 3 clause 2 page 3 of the conditions or contract.
4. The date in column 3 must correspond to the period stated in clause (f) page 2 of the bid.
5. Column 4. This will ordinarily be worked out proportionately thus ,for example, if 240000/- is the cost of the whole or portion of work bided for and six months period of completion then the monthly rate of progress should be Rs. 4000. If necessary, quantities may also be specified in this column at the discretion of the JDA.
6. The certificate as to intimation acceptance of bid printed at the foot of the form must be signed and dated both by the JDA or other duly authorized Engineer and the Contractor.



**SCHEDULE OF FAIR WAGE TO BE GIVEN BY EXECUTIVE ENGINEER LIST OF
ACTS AND COMMISSION FOR WHICH FINE CAN BE IMPOSED**

- (1) Without insubordination or disobediences whether alone or combination with another.
- (2) The fraud or dishonesty in connection with the contractors business or property of the Rajasthan P.W.D. / JDA.
- (3) Taking or giving bribes or any illegal gratification
- (4) Labour late attendance
- (5) Drunkenness fighting not or disorderly or indecent behavior
- (6) Habitual negligence
- (7) Smoking near or around the area where combustible or other materials are stocked
- (8) Habitual indiscipline
- (9) Causing damage work in progress or to property of the Rajasthan P.W.D./ JDA or the contractor
- (10) Sleeping on duty
- (11) Malingering or sowing down work.
- (12) Giving of information regarding name age father's name
- (13) Habitual loss of wage cards supplied by the employers
- (14) Un-authorized use of employer's property or manufacturing or making of unauthorized articles at the work place.
- (15) Bad workmanship in construction and maintenance by skilled workers is not approved by the department and for which contractors are compelled to undertake rectification.
- (16) Making false complains and/or misleading statement
- (17) Engaging in trade within the premises of the establishment
- (18) Any delinquency of business affairs of the employers
- (19) Collection or canvassing for the collection of any money within the premises of an establishment unless authorized by the employer.
- (20) Holding meeting inside the premises without previous sanction have the employer
- (21) Threatening or intimidating any workman or employee during the working hours within the premises.

(Signature of contractor)

(Signature of Engineer)



STATEMENT OF PAYMENT & RECOVERIES TO BE ATTACHED WITH THE AGREEMENT OF WORKS

S.No.	Gross amt. of Bill	Progressive total amt. of Bills	Recoveries									Net Amt.	C.B.Vr. No. & Date	Date rates of	
			Materials T&P	Quantity Hours	Amount	S.D.	Income tax deduction	Sales Tax	Roya lty	Other Recoveries	Total Recoveri es			D.A. O	E.E.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Signature of Bidder



SECTION – 3

(OTHER CONDITIONS OF CONTRACT)



SECTION - 3

OTHER CONDITIONS OF CONTRACT

3.1 GENERAL

3.1.1 THESE OTHER CONDITIONS OF CONTRACT' (OCC) SHALL BE APPLICABLE TO THIS BID IN AMPLIFICATION/MODIFICATION OF THE 'GENERAL CONDITIONS OF CONTRACT'(GCC).

3.1.2 In case any clause provided in GCC is modified/amplified in OCC, then provision in OCC will be binding and will prevail over the corresponding provisions in GCC.

3.1.3 The Contractor shall carry out the Works based on the following:

- (i) Rajasthan PWD Standard Specifications (Civil works)
- (ii) MORT&H/IRC Specifications (latest revision) wherever applicable
- (iii) Indian Electric Rules 1956, Indian Electric Act 1910 and Rajasthan PWD specifications for electrical works or as specified in this document as directed by employer/engineer.

Any item not covered by the aforementioned documents shall be covered by CPWD specifications.

The attention of the contractor is drawn to those clauses of codes, which require supporting specification either by the engineer or by mutual agreement between the Contractor and Employer. In such cases, it is the responsibility of the Contractor to seek clarification on any uncertainty and obtain prior approval of the Engineer before taking up the supply/construction. In absence of such prior clarification, the Engineer's choice/design will be final and binding on the Contractor without involving separately any additional payment.

The latest edition of all Specifications / Standards till 30 (Thirty) days before the final date of submission of the bid, shall be adopted.

3.2 SCOPE OF WORK AND DEVIATIONS

3.2.1 Scope of work would be as specified under Instructions to Bidders (Section- 1 of Bid Documents).

3.2.2 The Contractor is not to vary or deviate from the drawings/specifications/stipulations as submitted by contractor and finally approved by Jaipur Development Authority(JDA) for execution, conditions of bid documents or instructions to execute work of any kind, whatsoever, unless so authorized by the Engineer-in-charge (E.I.C.) in writing. If, compliance with the E.I.C's aforesaid order involves extra work and/or expense beyond that is involved in the execution of the contract work, then unless the same were issued in consequence of some breach of this contract on part of the Contractor(s), the latter



shall be entitled to be paid the price of the said work to be valued as provided in 'GCC'.

- 3.2.3 The several documents forming the contract are to be taken as mutually explanatory to one another, detailed drawings being followed in preference to small scale drawings and figured dimensions in preference to the measured ones.
- 3.2.4 The right to carry out the work either in conformity with or in a manner entirely different from the terms of these Bid Documents that may be considered the most suitable before or subsequent to the receipt of bids due to exigencies of work is reserved with the EIC.
- 3.2.5 It shall be the responsibility of the Contractor to promptly bring to the notice of E.I.C. any error or discrepancy in the Contract Documents and obtain his orders thereon. Only stated dimensions are to be taken and not those obtained by scaling drawings. In case any feature of the work is not fully described and set forth in the drawings and specifications, the Contractor shall forthwith apply to the EIC for further instructions, drawings and specifications.
- 3.2.6 In case of errors, omission and/or disagreement between written and scaled dimension in the drawings and between the drawings and specifications, the following principles shall be followed.
 - a) As between the written description or written dimension in the drawing and the corresponding one in the specification, the former shall apply.
 - b) The drawing on a large scale shall take precedence over that on a smaller scale, and
 - c) Drawing approved as construction drawing from time to time shall supersede corresponding drawing previously approved.

3.3 RATES AND OTHER FINANCIAL CONDITIONS

- 3.3.1 The rate quoted in the bid must be for the finished work as per the drawings and specifications and unless clearly specified otherwise, shall be inclusive of all expenses for the proper and entire completion of work and shall be inclusive of all labour, material and other inputs, taxes, duties and levies including GST, sales tax, municipal taxes, local taxes, octroi, all royalties, patent rights, other incidental charges etc. The rate offered shall be final and no claim whatsoever on any account shall be entertained.

3.3.2 Sales Tax Clearance Certificate-Deleted

Reffer clause No- 2-a-iii of special condition of the contract for pre-qualification of contractors.



3.3.3 Insurance

3.3.3.1 Requirements

Before commencing execution of works, it shall be mandatory for the contractor to obtain at his own cost insurance cover to meet the cost of compensation to be paid by the contractor for any accidents/incidents pertaining to J.D.A staff, site execution staff, labour, materials, plant and third party damages etc., under the following requirements:

- a. Contractor's all risk and Third Party Cover.
- b. Liability under the Workmen's Compensation Act, 1923, Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act 1970.
- c. Accidents to staff, Engineer, Supervisors and others who are not governed by Workmen's Compensation Act.
- d. Damage to Material, Machinery and works due to fire, theft etc.
- e. Any other risk may be specified in the Special Conditions of Contract.

3.3.3.2 Insurance policy in joint names of Contractor and Employer

The policy referred to under sub-clause 3.3.3.1 above shall be obtained in the joint names of the contractor and the employer and shall inter-alia provide coverage against the following, arising out or in connection with execution of works, their maintenance and performance of the contract.

- Loss of life or injury involving public, employee of the contractor, or that of Employer or Engineer, labour etc.
- Injury, loss or damages to works or property belonging to public, Government Bodies, Local Authorities, utility organizations, contractors, employers or others etc.

3.3.3.3 Currency of Insurance Policy

The policies shall remain in force throughout the period of execution of the works and till the expiry of the maintenance period. The contractor shall, submit to the Engineer or his representative the copies of various insurance policies obtained by him as also the rates of premium and the receipts for premium paid by him to ensure that the policies indeed continue to be in force.

3.3.3.4 Deduction of Income Tax (TDS)

Deduction towards income tax and any other tax shall be made at source from each on account bill by the employer as per rules of Central Govt./ State Govt.

3.3.4 Release of Security Deposit

Release of Security Deposit shall be affected as follows:



The Security Deposit amount shall become due and shall be paid to the contractor after expiry of Defect Liability Period of work as per the special condition of contract regarding defect liability period (DLP).

Provided always that, no 'Security Deposit' amount shall become due nor payable to the contractor unless all the stipulations of the contract have been fulfilled by the contractor and all claims and demands made by the employer for and in respect of damage or loss by, from or in consequence of the works have been finally satisfied.

3.4 SETTING OUT

3.4.1 The Contractor(s) is/are to set out the whole of the work in conjunction with an officer to be deputed by the EIC and during the progress of the work to amend on the requisition of the EIC any errors which may arise therein and provide all the necessary labour materials and equipments for so doing. The contractor(s) is/are to provide all tools, plant, machinery, labour and materials (with the exceptions noted in the relevant clauses for issue of departmental materials as per schedule attached) which may be necessary and required for the work. All materials and workmanship shall conform to the relevant specifications mentioned in the bid documents.

3.5 SITE AND CONTRACTOR'S OFFICE

3.5.1 The Contractor shall set up an office in Jaipur in case he does not have one already, for planning and co-ordination of the present bid/contract. He shall furnish to the Employer postal address of the same.

3.5.1.1 The Contractor shall also have an office at site and shall furnish to the Employer/E.I.C. the postal address of his site office.

3.5.1.2 The contractor shall provide and maintain at the work site, an air conditioned site office for Employer's engineering staff, of floor area not less than 35 Sq M with two rooms of adequate size reasonably furnished with furniture, computer with operating system software and latest (authenticated) working software like Auto Cad, Primavera / MS project MS word, MS Excel, etc, and coloured multi-functional printer (MFP) A-3size printer. The site office shall also be equipped with broadband connection (speed not less than 2.0 mbps), with attached toilet and wash and ward and one attendant. The contractor shall also arrange all necessary IRC codes, IS codes MoRTH Specifications and other technical literature, etc as directed by EIC of latest version in soft copies as well as hard copies in the site office. The contractor shall bear the monthly cost of electricity, water consumption, broadband, stationary and other consumables of the site office. Nothing extra shall be payable on this account and the bided cost of contract shall be deemed to include in the cost for the main works. In case of non-satisfaction of the services being provided or maintained a maximum deduction of Rs. 25,000.00 per month will be made by the EIC.

3.5.1.3 Any notice or instructions to be given to the Contractor under the terms of the contract shall be deemed to have been served on him if it has been delivered to his



authorized agent or representative at site, or if it has been sent by registered post to the site office or to the address of the firm last provided by the Contractor.

3.5.1.4 a) The Bidder should have integrate Network Operating Centre (NOC) at JDA, Control Room at Yadgar and Abhay Command Centre. No extra payment shall be made for this work.

b) The bidder should have to integrate the PA & BGM system to JDA Network Operating Centre (NOC). No extra payment shall be made for this work.

3.5.2 Use and Care of Site

3.5.2.1 The Contractor shall not demolish, remove or alter structure or other facilities on the site without prior approval of the EIC.

3.5.2.2 All garbage shall be burnt or removed from the site as it accumulates. All surface and sub soil drains shall be maintained in clean, sound and satisfactory state of performance.

3.5.3 Materials, tools and plants.

3.5.3.1 The Contractor shall supply at his own cost all materials, plants, tools, appliances, implements, ladders, tackle, scaffolding and temporary works or any other item required for the proper execution of the work, whether original, altered or substituted and whether included in the specification or other documents forming part of the contract referred to in these conditions or not, which may be necessary for the purpose of satisfying or complying with the requirements of the EIC to any matter as to which under these conditions he is entitled to be satisfied or which he is entitled to require together with carriage thereof to and from the work. Materials so supplied shall have the approval of EIC before being used on the works. All the rejected materials shall be removed at once from the site of work at the Contractor's own cost.

3.5.4 Storage of Materials

3.5.4.1 Materials required for the work whether purchased by the contractor or supplied by the Employer shall be stored by the Contractor only at places, in standard profiles and in the manner approved by the EIC. The Contractor shall construct suitable go downs at the site of work for safety against damage due to sun, rain, dampness, fire, theft etc. Storage of cement at site of work shall be at Contractor's expense and risk. In the event of any damage occurring to cement due to faulty storage in Contractor's sheds, or on account of negligence on his part, such damage shall be the liability of the Contractor.

3.5.4.2 Safety of materials

Storage and safe custody of materials shall be the responsibility of the Contractor. He shall employ necessary watch and ward establishment for that purpose and no extra claim whatsoever shall be entertained on this account.



3.5.5 Supply of water and electric power

3.5.5.1 The contractor shall have to make his own arrangement for water supply and electric power necessary for the work. Any recommendatory letters to the concerned department shall be issued by the JDA for this purpose if requested by the contractor. However, JDA shall not be responsible for any delay in getting the required supply and no claim on this account will be acceptable by JDA.

3.5.5.2 Electric supply, charges and precautions

The electric connections shall be obtained by the contractor for use for the work under the contract subject to the following conditions:-

- a) The charges pertaining to electric supply including installation of temporary connection including the cost of making electric sub-station if needed, laying cables wherever necessary upto the meter from the relevant electricity supply authority pole and from meter upto actual consumption point and the cost of electricity shall be borne by the Contractor. The Contractor shall also bear the entire cost of connection charges in case electric connection is discontinued by the electric supply authority.
- b) It will be the responsibility of the Contractor to make necessary arrangements for the illumination to be provided on the main road in the work area. The Contractor shall make his own arrangement for any further requirements in respect of illumination at site of work. No claim whatsoever on this ground shall be entertained and the Contractor shall bear the full expenses in respect of the same.
- c) The Contractor shall at all times observe the Indian Electricity Rules and any other rules/bye laws applicable at the time and any damage/penalty on account of violation of any of the rules/bye laws shall be responsibility of the Contractor.
- d) The Employer shall in no way be responsible for any delay in getting the electric connection and no claim on this account whatsoever, shall be entertained. It should be clearly understood that the Contractor has to make his own arrangement for use before the electric connection is made available and also to be used as a stand-by arrangement in case of power failure etc. or in the case of disconnection of electric supply by electric supply authority for any reason.
- e) It shall be mandatory for contractor to provide safety light during night for safe movement of traffic and provide follow safety instruction provided in IRC code for safety in construction zone.



3.6 ACCESS ROADS AND HAUL ROADS

- 3.6.1 Existing public roads may be used by the Contractor to carry out construction activities with prior approval of the competent authority. The Contractor shall pay all statutory vehicle licenses and permit fees for the use of public roads.
- 3.6.2 The Contractor shall indemnify the Employer against all claims for damage to any road or bridge caused by movement of his traffic, including such claims as may be made directly against the Employer and shall negotiate and pay all claims arising out of such damage.
- 3.6.3 No extra payment will be made for construction and maintenance of any temporary haul roads including any special protection or strengthening required and all cost of such works shall be deemed to have been included in the cost quoted by the Contractor.

3.7.1 SAFETY, LIGHTING AND FIRE PREVENTION

Safety of Workers

- 3.7.1 The Safety Code annexed to the General Conditions of Contract supplemented by the other instructions by the EIC and Conditions of Contract for Safety, Health and Environment (SHE) as per Section 7, shall be strictly followed. All the safety procedures as per law of the land shall be binding on the Contractor.
- 3.7.2 Over and above the provisions made in Safety Code included in GCC and Conditions of Contract for Safety, Health and Environment (SHE), the following will also be applicable.
- 3.7.3 In respect of all workmen directly employed on the work for the performance of the Contractor's part of this agreement, the Contractor shall at his expense arrange for the safety provisions as per Indian Standard Safety Codes given below and shall at his own expense provide for all facilities in connection therewith. In case the Contractor fails to make arrangements, and provide necessary facilities as aforesaid, he shall be liable to pay penalty prescribed under relevant clauses of these bid documents for each default and in addition the EIC shall be at liberty to make arrangement and provide facilities as aforesaid and recover the cost incurred on that account from the contractor and no claims whatsoever shall be entertained.
 - 1. IS 3696 (Part I); Safety Code for Scaffolds and Ladders.
 - 2. IS 3696 (Part II); Safety Code for Scaffolds and Ladders Part II.
 - 3. IS 3764, Safety Code for excavation work.
 - 4. IS 4081, Safety Code for blasting and drilling operations
 - 5. IS 4138, Safety Code for working in compressed air.
 - 6. IS 5121; Safety Code for piling and other deep foundations.
 - 7. IS 5121, Safety Code construction involving use of hot bituminous materials.
 - 8. IS 7293, Safety Code for working with construction machinery.
 - 9. IS 7969, Safety Code for storage and handling of building materials.



10. IRC safety code for construction zone IRC(SP) 55 2001
11. Any other code and/or as per directions of EIC.
12. The contractor shall be responsible for providing following services/ measures for which no extra payment shall be made as per directions of Engineer In charge.
 - (a) The contractor shall take all necessary precautions for excavation of required depth up to 6.0 m for construction and simultaneously to maintain the service road carriageway uninterrupted for all direction traffic throughout construction period. He should also give his methodology of carrying out the construction, list of equipment and procedure to be followed without delaying the project. The methodology shall only be adopted after approval from Engineer In charge. The contractor should cover all the expenses due to methodology adopted and construction difficulties in the quoted rates.
 - (b) Contractor has to divert and manage traffic by deploying marshals with reflective shirts, torch/reflective sticks. In the absence of marshals JDA shall deploy the marshals at market rate and recovery from the contractor will be done at double the rate paid from his running payments. The open excavation shall be done taking proper care for land sliding as per IS Code 3764 and other. Slope shall be limited to space available at site at least 2 lanes should be available for either side traffic such arrangement as approved by Engineer In charge shall be done by contractor at his own cost.
 - (c) In case of any lapse , if found in barricading the site of work then, agency will be liable for penalty @ Rs. 5000/-per day (Rs. Five Thousand per day) till the rectification of the same as per directions of Engineer In charge in construction area. The contractor shall enclose the area completely. The steel plates should have the Name of Agency, Name of Client and “Construction in Progress” duly written as approved by Engineer In charge.
 - (d) The contractor shall construct and maintain the 2 lane diversion road with bituminous surface road for bridge work for smooth movement of all traffic during construction period. No cost will be payable for this diversion work.
 - (e) The contractor shall be responsible for immediately removing the accident vehicle/ material by mobile crane for least hindrance to the traffic in construction area and to arrange the ambulance as per requirement immediately.
 - (f) The contractor shall take all necessary measures for the safety of traffic and the workers during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagmen as necessary, all around the excavation/construction area and at such intermediate points, as directed by the EIC including the proper identification of the construction areas. He shall be responsible for all damages and accidents on account of



construction and other relevant activities. Nothing extra shall be paid on account of above.

The temporary warning signs/lamps shall be installed at all barricades during the hours of darkness and kept lit there at all times during these hours and nothing shall be paid extra on this account. However, traffic police signals shall not be the responsibility of the contractor.

(g) The contractor will be responsible for following all the norms, instructions mentioned in Safety Codes of IS/ BS or other for every construction activity, heavy machines including operator and technical staff. In case of any casualty JDA will not be responsible for negligence of contractor. He will appoint safety induction officer having minimum qualification, Diploma in such field with minimum 5 years experience in similar nature of works.

(h) Nothing extra will be paid on account of Dewatering.

3.7.4 a. NIGHT WORK

- i. For completing the work in time, the Contractor might be required to work in two or more shifts (including night work) and no claim whatsoever shall be entertained on this account, notwithstanding the fact that the Contractor will have to pay to the labor and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amounts for any other reason.
- ii. Night working shall be resorted to only with prior approval of the EIC. Sufficient lighting and safety arrangements shall be made by the Contractor at no extra cost.
- iii. The Contractor shall provide and maintain adequate firefighting equipment and take adequate fire protection measures for the safety to all personnel and temporary and permanent workers and shall take action to prevent damage or destruction by fire of trees, shrubs and grass. All existing rules and laws of land in respect of fire prevention shall be binding on the Contractor.
- iv. No extra payment shall be made for the provision of temporary lighting and fire prevention measures and entire cost of all such works shall be deemed to have been included in cost tendered by the Contractor as accepted by JDA.

b. SECURITY MEASURES

Security arrangement for the work shall be adequate conforming to IS Codes, applicable rules and laws of the land. The contractor shall be held responsible for the action or inaction on the part of his staff and employees and also those of any approved sub-contractor. The Contractor shall also provide and maintain adequate security personnel on continuous basis for ensuring security of the works for duration of contract.

The requirement of security measures to be taken by the Contractor shall include, but not be limited to maintenance of law and order at site, provision of all lighting,



guards, flagmen and all other measures necessary for protection of works within the colonies, camps and elsewhere at site, all materials delivered to the site and all persons employed in connection with the work continuously throughout working and non-working periods including nights, Sundays and holidays for the duration of the contract. In close proximity of traffic corridors where public are likely to come close to the work area, suitable barriers/fencing as directed by EIC shall be provided.

c. ANCILLARY AND TEMPORARY WORKS

- i. The contractor's proposals for execution of all ancillary and temporary works shall be in conformity with the proposals submitted along with the Tender and modification thereto as approved by the EIC.
- ii. The Contractor shall submit drawings, supporting design calculations when called for by the EIC and other relevant details of all such work to the EIC for approval well before he desires to commence such works. Approval by the EIC of any such proposal shall not relieve the Contractor of his responsibility.
- iii. No extra payment shall be made for complying with the provisions of this clause. The cost of the same shall be deemed to be included in the Tendered Cost as accepted by the Employer.

d. ECOLOGICAL BALANCE

- i. The Contractor shall maintain the ecological balance by preventing deforestation, water pollution and defacing of natural landscape. The Contractor shall so conduct his construction operations as to prevent any destruction, scarring or defacing of natural surroundings in the vicinity of work or damage to any tree, shrub or water course unless any of the same is specifically required to be cleared or removed for construction purposes. Such removal shall only be done with prior approval of EIC who may require the contractor to do compensatory plantation at his cost.
- ii. No separate payment shall be made for complying with provisions of this clause and all costs shall be deemed to have been included in the Tendered Cost as accepted by the Employer.
- iii. The Contractor shall make his own arrangement for the disposal of the spoils from the works to such place where the same shall not cause nuisance and shall be acceptable to the authorities concerned.

e. SERVICES

- i. Underground and overhead services are likely to be met with during construction. These are to be protected against damage by the Contractor at his own cost.
- ii. The contractor shall not have any claim in case of delay in shifting of services or removal of obstructions. However, suitable extension of time shall be granted by Engineer-in-charge for such delays proportionately. Shifting charges shall be met by the Employer.
- iii. No extra payment will be made to the contractor for damage caused by rains, floods, earthquake, fire, accidents and other natural calamities during the execution of work.



f. PROGRESS & PROJECT MONITORING
(Amplification of clause 2 of GCC)

- i. After the work order issued by JDA, the contractor shall submit within 7 days the complete detailed work programme mentioning Key Dates for the mile stones defined in section 3.12.2.2. and get it approved by JDA, failing which JDA may fix key dates at its own which shall be binding to the contractor and shall be applicable for deduction of liquidated damages as mentioned in clause 3.12.2.2. The contractor shall also submit monthly programme in the first week of every month to the EIC an up to date primavera/ MS project hard copy detail showing changes and covering backlog of previous month, if any, in planning or scheduling and reflecting the project status as at the end of previous month. If the contractor fails to submit the proper work program within first week of the month, penal deduction of Rs. 5,000.00 (Rupees Five Thousand) per day will be made.
- ii. Whenever the contractor proposes to change the construction programme he shall immediately advise the EIC in writing and, if the EIC considers the change a major one, the contractor shall submit a revised programme for approval.
- iii. If the contractor falls behind the approved construction programme, he shall, within fourteen days of the date of such default, submit for approval a revision of the construction programme showing the proposed measures, including augmentation of plant, labour and material resources to complete the works on time.
- iv. Whenever required by the Engineer, the contractor shall also prepare and submit system-wise network in a similar manner after award of the work. These networks will be computerized to generate the following reports :-
 - System-wise Activity List for the next two months.
 - Criticality report.
 - Hold up and Slippage Report.

a) i) Master Control Network

Master Control Network shall give details of broad scheduling, major milestones, and critical path and provide a control for the overall project implementation. This network plan shall be used for joint monitoring of the project schedule by the EIC and the Contractor.

Detailed Network Plan shall be prepared by the Contractor for each and every activity within the same time frame and in the same sequence as indicated in the master work plan.

- b) If so required by the EIC, the Contractor shall select PC-based broad planning and control software on which the two networks shall be implemented. Software selected shall be such that it should be possible to monitor the



project programme continuously and obtain periodical reports in the form of GANTT chart and/or PERT chart. The contractor shall supply one licensed copy of the software selected along with the Master Control Network and Detailed Network Plan free of cost and load it on the PC system of the EIC so that uniform monitoring of the project is done and any slippages are identified well in time and corrective action taken.

- v. The following reports in agreed formats and frequency shall be submitted by the Contractor at his own cost.
 - Progress Reports.
 - Material Status Reports
 - Equipment and Manpower Deployment Reports.
 - Any other reports desired by the Employer or the Engineer
- vi. The EIC's monitoring team will have access to all the data/information of the contractor, required for the assessment of the progress and monitoring. If necessary, the monitoring team will visit the Contractor's works in order to assess the details of critical activities.
- vii. The Employer or the EIC will hold periodical Progress Status Review Meeting. The Contractor shall depute his Engineers/Managers at appropriate level as decided by the EIC to attend the Review Meeting.
- viii. Progress photographs of the major events shall be submitted by the Contractor along with the Progress Reports. No extra payment will be made for supply of progress photographs. Video recording of the progress of works shall be maintained from beginning till completion of work as directly by the EIC and two copies of Video Cassettes shall be submitted at no extra cost to the Employer.
- ix. Contractor shall provide additional inputs whenever the PERT-CPM diagram indicates a possible slippage in the completion schedule. Such additional inputs may require supplementing of equipment, personnel, work in excess of the normal work per day, work in excess of the normal work per week or other resources.
- x. No separate payment shall be made for the requirement under this clause and the same shall be deemed to be included in the Tendered Cost as accepted by the Employer.

g. RIGHT OF WAY

- i. Right of way to the work site will be provided to the contractor. The contractor shall prepare at his own cost approach road to the site of work. The Employer reserves the right to make use of the service road for themselves, all other connected agencies in the area as and when necessary without any payment to the contractor. If the contractor wishes to use the existing roads, he may do so after taking permission from competent



- authority and after due strengthening of such roads to take any anticipated heaviest traffic at their own cost as may be required by the authority.
- ii. The contractor shall plan transportation of construction materials, components and equipment's over public roads in accordance with traffic regulations as applicable at the time and without causing any obstruction to other traffic or causing accident. No claim whatsoever will be entertained on this account.
 - iii. All arrangements for maintenance of traffic diversion including traffic signals/regulations during construction and maintenance period shall be considered as incidental to the work and contractor's responsibility and nothing extra shall be payable in this respect.
 - iv. The contractor shall take all necessary measures for the safety of traffic and the workers during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagmen as necessary, all around the excavation/construction area and at such intermediate points, as directed by the EIC including the proper identification of the construction areas. He shall be responsible for all damages and accidents on account of construction and other relevant activities. Nothing extra shall be paid on account of above.
 - v. The temporary warning signs/lamps shall be installed at all barricades during the hours of darkness and kept lit there at all times during these hours and nothing shall be paid extra on this account. However, traffic police signals shall not be the responsibility of the contractor.

3.8 TIME MANAGEMENT

3.8.1 Commencement of Work

The Contractor shall commence the Works on the date specified in the work order. Thereafter the Contractor shall proceed with due diligence, without delay, and in accordance with the programme or any revised or modified programme of the Works. Time will be the essence of Contract and time for Completion shall run from the date the Contractor is to commence the Works under this Clause.

3.8.2 Programme of Work

For this, Clause 3.7.4.f may be referred.

3.8.3 Handing over, Possession and Use of Site

3.8.3.1 No land belonging to or in the possession of the Employer shall be occupied by the Contractor without the permission of the Engineer or the Employer. The Contractor shall not use, or allow the Site to be used for any purpose other than that of executing the Works.

3.8.3.2 The Employer shall give the Contractor, right to or right of access to or possession of all or parts of Site as the case may be from time to time as stated to in the Contract and as conforming with the requirement of the programme of the Work.



3.8.3.3 If the Contractor suffers delay or incur extra cost due to failure by the Employer to give such possession within such time, then the Contractor shall be entitled to extension of time if Completion will be delayed due to this. No extra payment shall be payable to the Contractor in this regard.

3.8.4 Access To Site of Work

3.8.4.1 Access for Engineer

The Contractor shall allow the Engineer or the Engineer's Representative, at all times access to the Site, and to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where Materials or plant are being manufactured, fabricated and/or assembled for the Works. The Contractor shall ensure that sub Contracts if any shall contain provisions entitling the Engineer or any person authorized by him to have such access.

3.8.4.2 Access Road and Way Leaves

Providing access roads/ way leaves to the Site will be Contractor's responsibility.

3.9 Time for Completion

Time is the essence of Contract and will remain so at all times during the pendency of the Contract including the extended period of Contract. The Contractor shall ensure defect free completion of the whole of the Works and/or parts thereof before the same is taken over by the Employer.

3.10 Delay

3.10.1 Failure or delay by the Employer or the Engineer, to hand over to the Contractor the Site necessary for execution of Works, or any part of the Works, or to give necessary notice to commence the Works, or to provide necessary Drawings or instructions or clarifications or to supply any material, plant or machinery, which under the Contract, is the responsibility of the Employer, shall in no way affect or vitiate the Contract or alter the character thereof; or entitle the Contractor to damages or compensation thereof but in any such case, the Engineer shall extend the time period for the completion of the Contract, as in his opinion is / are reasonable.

3.10.2 In case of delay on the part of the Contractor, the Contractor shall be liable to pay liquidated damages in addition to any other compensation for the damages suffered by the Employer. This is without prejudice to the right of the Employer to rescind the Contract.

3.11 Extension of Time for Completion not on Contractor's fault

The time within which, the Works or any phase or part of the work is to be completed, may be extended by the Engineer by such further period of time as may reasonably reflect delay in completion of Works notwithstanding due



diligence and the taking of all reasonable steps by the Contractor to avoid or reduce such delay, caused by any of the following events

- i. “Force Majeure” referred to in **Clause 46.0**
- ii. The issue of any instruction or major Variation by the Engineer
- iii. The Contractor not being given possession of or access to the Site or any part thereof in accordance with the Contract
- iv. Instruction of the Engineer to suspend the Works and the Contractor not being in default as to reasons of suspension.
- v. Acts or omissions of Other Contractors in executing work not forming part of this Contract and on whose performance, the performance of the Contractor necessarily depends.
- vi. Any act of prevention or Breach of Contract by the Employer and not mentioned in this Clause
- vii. Any order of Court restraining the performance of the Contract in full or in any part thereof
- viii. Any other event or occurrence which, according to the Employer is not due to the Contractor’s failure or fault, and is beyond his control

However, the Contractor shall not be entitled to any extension of time where the instructions or acts of the Employer or the Engineer are necessitated by or intended to cure any default of or breach of Contract by the Contractor. If the Contractor considers himself to be entitled to an extension of time for Completion, he shall give notice to the Engineer of such intention as soon as possible and in any event within 28 days of the start of the event giving rise to the delay, together with any notice required by the Contract and relevant to such Clause.

3.12 Extension of Time for Delay due to Contractor and Liquidated Damage

3.12.1 Extension of Time for Delays due to Contractor

If the delay in the completion of the whole Works or a portion of the Works, for which an earlier completion period is stipulated, is due to the Contractor’s failure or fault, and the Engineer is of the view that the remaining Works or the portions of Works can be completed by the Contractor in a reasonable and acceptable short time, then, the Engineer may allow the Contractor extension or further extension of time at its discretion with or without liquidated damages, for completion, as he may decide.

3.12.2 Liquidated Damages

3.12.2.1 In case the Engineer decides to extend the Contract with liquidated damages for delays due to Contractor, in that case without prejudice to any other right or remedy available to the Employer, the liquidated damages shall be levied as per clause 3.12.2.2.



The decision of the Engineer as to the Liquidated Damages payable by the Contractor under this Clause shall be final and binding. For submission of detailed work programme, key dates etc, Clause 3.7.4.f. may be referred.

3.12.2.2 The intermediate mile stones are identified as below.

1. Subway
2. Monument & Chattri Work
3. Road and Cycle Track.

Liquidated damages for not achieving key dates, then the action will taken as per the prevailing rules.

These liquidated damages shall not relieve the contractor from his obligation to complete the works or from any other of his obligations and liabilities under this contract.

These liquidated damages levied shall be in addition to all other penalties/ compensations/ liquidated damages. The contractor shall coordinate his programme to the extent feasible with other activities engaged at site so that project may be completed in time as per programme.

3.13 Rate of Progress

If for any reason which does not entitle the Contractor to an extension of time, the rate of progress of the Works is at any time, in the opinion of the Engineer too slow to ensure timely completion of the Works or any part thereof, the Engineer may so notify the Contractor in writing. The Contractor shall there upon take such steps as are necessary or in default of taking such steps, shall take such steps as the Engineer may reasonably instruct to expedite progress so as to complete the Works or any part thereof within date of Completion. The Contractor shall not be entitled to any additional payment for taking such steps.

If any step taken by the Contractor in meeting his obligations under this Sub clause cause the Employer to incur additional costs, such costs shall be recoverable from the Contractor and shall be deducted by the Employer from any monies due, or become to the Contractor.

3.14 Suspension

3.14 .1 Suspension of Work

The Engineer may at any time instruct the Contractor to suspend progress of part or all of the Works. During suspension, the Contractor will protect, store and secure such part or whole of the Works against any deterioration, loss or damage. The Contractor shall not be entitled to extra cost

3.14.2 Consequences of Suspension

The Contractor shall not be entitled to extra cost (if any), incurred by him, during the period of suspension of work, if such suspension is



- a. provided for in the Contract, or
- b. necessary for proper execution of Works or by reasons of weather condition or by some default on the part of the Contractor, or
- c. necessary for the safety of Works or any part thereof or
- d. necessary for the safety of adjoining public or other property or safety of the public or workmen or those who have to be at the Site or
- e. to ensure safety and to avoid disruption of traffic and utilities, as also to permit fast repairs and restoration of any damaged utilities,

3.15 TERMINATION OF CONTRACT

3.15.1 Termination for Employer's Convenience

- (i) The Employer may terminate the Contract by giving notice to the Contractor with effect from the date stated in the notice, for its convenience and without need to give reasons.
- (ii) The Contractor must comply with the instructions of the Employer to wind down and stop work and the Contractor must leave the Site by the date stated in the termination notice and remove all Temporary Works it has brought on to the Site except for those items identified in the termination notice as to be retained on the Site.
- (iii) The Contractor shall not be entitled to extra cost.

3.15.2 Termination for Default of Employer- Deleted

3.15.3 Rescission Of Contract Due To Death of Contractor / Partner

If the Contractor is an individual or a sole proprietary concern, and the Contractor dies, or if the Contractor is a partnership concern and one of the partners dies, in that case unless the Employer is satisfied that the legal representative of the individual Contractor or of the sole proprietor, , or in the case of a partnership firm, all surviving partners, are capable of carrying out and completing the Contract, the Employer shall be entitled to rescind the Contract as to its incomplete part. The Engineer's decision in this regard will be final and binding on the parties. In that event, the Employer shall not be liable to pay any compensation to the legal heirs of the deceased Contractor and / or to the surviving partners of the Contractor's firm, on account of such cancellation of Contract. Provided further that the legal representatives of the Deceased Contractor the surviving partners, shall also not be liable to pay any damages, to the Employer, in respect of incomplete part of the Contract. Any liability incurred by the deceased Contractor, or by the deceased partner of the Contracting firm, shall be recovered from the legal representatives of the deceased Contractor or from the surviving partners of the said Contracting firm as the case may be



3.15.4 Termination of Contract Due To Contractor's Default

3.15.4.1 Notice to Correct

If the Contractor fails to carry out any obligation under the Contract, the Engineer may by notice require the Contractor to make good the failure and remedy it within a specified reasonable time as the Engineer may deem reasonable.

3.15.4.2 Conditions Leading To termination Of Contract.

The Employer shall be entitled to terminate the Contract if the Contractor or any one of its constituents,

- a) fails to comply with a notice under Sub clause 3.15.4.1
- b) abandons or repudiates the Contract
- c) without reasonable excuse fails to commence the Works in accordance with the Contract
- d) sub Contracts the whole of the Works or assigns the Contract without Approval of the Employer
- e) becomes bankrupt or insolvent or goes into liquidation except voluntary liquidation for the purpose of amalgamation or reconstruction
- f) persistently disregards instructions of the Engineer or contravenes any provisions of the Contract, or
- g) fails to adhere to the agreed programme of work by margin of 10% of the stipulated period or 21 days, whichever is earlier, or fails to complete the Works or parts of the Works within the stipulated or extended period of completion, or is unlikely to complete the whole Work or part thereof within time because of poor record of progress; or
- h) fails to remove Materials from the Site, or pull down and replace work, after receiving notice from the Engineer to the effect that the said Materials or Works have been condemned or rejected, or
- i) fails to take steps to employ competent and/or additional staff and labour, or
- j) fails to afford the Engineer or his representative proper facilities for inspecting the Works or any part thereof, or
- k) indulges in corrupt or fraudulent practices as explained in Clause 3.16.1 (a) (ii)

In any one these events or circumstances, the Employer may upon giving 14 days notice to the Contractor, terminate the Contract and expel the Contractor from the Site. The Employer shall give a 2 days notice to the Contractor towards the end of this 14 day period following which the Contractor shall remove all his plants and Machinery from the Site within these two days failing which Liquidated Damages shall be levied on the Contractor. However, in case of sub-paragraph (e) or (i), the Employer may by notice terminate the Contract immediately.

The Employer's election to terminate the Contract shall not prejudice any other rights of the Employer under the Contract.

After termination, the Employer may complete the Works and/ arrange for any other entities to do so at the risk and cost of the Contractor. The Employer and his entities may then use, the roads, the Contractor's documents and his design document made by or on behalf of the Contractor.



On termination of Contract due to Contractor's default, the Employer shall be entitled to

- a. forfeit the whole or such portion of the Performance Security amount as he may consider fit, and
- b. recover from the Contractor the cost of carrying out the balance work in excess of the sum which he would have been paid according to the certificate of the Engineer, if the Works had been carried out and completed by the Contractor under the terms of Contract. Such certificate shall be final and binding upon the Contractor. The amount to be recovered may be deducted by the Employer from any monies then due or which, at any time thereafter, may become due to the Contractor alone or jointly under this or any other Contract or otherwise.

3.15.4.3 Non-exercise of power not to constitute waiver

Provided always that in case any of the powers conferred upon the Employer by **Sub-clause 3.15.4.1** and **Sub-clause 3.15.4.2** above, shall have become exercisable, and the same may not have been exercised, the non-exercise thereof shall not constitute waiver of any of the conditions thereof.

3.16 CORRUPT OR FRAUDULENT PRACTICES

3.16.1 The Employer requires that the Bidders/Contractors observe the highest standards of ethics during

Tendering and execution of this Contract. In pursuance with this policy, the Employer:

- a. defines, for the purpose of these provisions, the terms set forth below as follows:
 - (ii) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to Employer, Engineer or any of their employees, influence in the procurement process or in Contract execution; and
 - (iii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Employer, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- b. Will reject the Tender for the work or rescinds the Contract if the Employer determines that the Bidder/Contractor has engaged in corrupt or fraudulent practices.
- c. Will declare a Contractor ineligible, either indefinitely or for a stated period of time, to be awarded a Contract/s if he at any time determines that the Contractor has engaged in corrupt or fraudulent practices in competing for, or in executing the Contract.



SECTION – 4

TECHNICAL SPECIFICATIONS

PREAMBLE



TECHNICAL SPECIFICATIONS.

PREAMBLE

The Technical Specification (Appendix-“A”) shall be read with the other volumes of the Bid Document (Volumes I & II)

1.1.1 General

The Technical specifications covering the materials and the workmanship aspects as well as method of measurements and payments are included in this section. These specifications cover the items of civil and non-civil works coming under scope of this document. All work shall be carried out in conformity with the same. These specifications are not intended to cover the minute details. The works shall be executed in accordance with good practices followed for achieving high standards of workmanship, thus ensuring safety and durability of the construction. All codes and standards referred to in these specifications shall be the latest thereof, unless otherwise stated.

1.1.2 Inclusive Documents

The provisions of special conditions of contract, those specified elsewhere in the bid document, as well as execution drawings and notes, or other specifications issued in writing by the Engineer shall form part of the technical specifications of this project.

The attention of the contractor is drawn to those clauses of codes which require supporting specification by the Engineer. In such cases, it is the responsibility of the bidder /contractor to seek clarification on any uncertainty and obtain prior approval of the Engineer before taking up the supply/construction. In absence of such prior clarification, the Engineer's choice/design will be final and binding on the contractor without involving separately any additional payment.

1.1.3 Measurement and Payment

The methods of measurement and payment shall be as described under various items and in the Bill of Quantities. Where specific definitions are not given, the methods described in B.I.S. Code/MoRTH/IRC will be followed. Should there be any detail of construction or materials which has not been referred to in the Specification or in the Bill of Quantities and Drawings but the necessity for which may be implied or inferred therefrom, or which is usual or essential to the completion of the work in the trades, the same shall be deemed to be included in the rates and prices entered by the contractor in the Bill of Quantities.



1.1.4 Defective Works

All defective works are liable to be demolished, rebuilt and defective materials replaced by the contractor at his own cost. In the event of such works being accepted by carrying out repairs etc., as specified by the Engineer, the cost of repairs will be borne by the contractor.

In the event of the work being accepted by a given 'Design Concession' arising out of but not limited by a given under sizing, under strength, shift in location and alignment etc., and accepting design stress in members which are higher than those provided for in the original design or by accepting materials not fully meeting the specifications etc., the bidder will be paid for the works actually carried out by him at suitably reduced rate of the bid rates for the portion of the work thus accepted.

2 Summary of Work

The work under construction package involves, **“Traffic Solution and Beautification Work at Jawahar Circle, Jaipur, Rajasthan”** including its approaches, and other ancillary works.

2.1 Scope of Work

The work under this contract shall be carried out in accordance with the document constituting the contract and shall consist of various salient items as described below.

2.1.1 Driveway / Cycle Track / Rubberized Jogger Track Work

The roadwork to be carried out under the contract consists of the Following:

- Site Clearance
- True and proper setting out and layout of the works, providing location marks, benchmarks, preparation of report and plans.
- Construction of road including scarifying, construction of carriage way, service road, shoulders and medians, provision of drainage.
- Preparation and laying of Road work in Cobble Stone at Driveway, Concrete Road at Cycle Track as per the specification laid down in the detailed site drawings/ Estimate.
- Providing and laying of rubberized Jogger's Track as per drawing and specification.
- Slope of the Proposed driveway and subway should be appropriately maintain as per site.
- Providing bituminous wearing coat for Repair Work.



- Dismantling of existing Walkway and construction of new walkway of granite paving as shown in drawings.
- Construction of Median as per approved drawings and specification.
- Improvements of existing junctions and construction of new junctions, if any, as per drawings.
- Provision of road signs, markings, delineators, railings, median marker etc. on road.
- Provision of road markings with Thermoplastic paint as shown in drawings.
- Maintenance of existing Works.
- Providing suitable drainage in service roads.
- Any other item of work as may be required for completing the road works including all incidental works in all respects in accordance with the provisions of the contract.

2.1.2 SUBWAY WORK

- Site clearance
- Removal of Existing Bituminous and Granular Surface.
- True and proper setting out and layout of the work, providing location marks, bench marks, preparation of reports and plans.
- Excavation of Earth up to the required depth as per drawing & Specification
- RCC foundation with RCC wall, column & slab as per drawing & Specification.
- Construction of approaches with required slope as per drawing & Specification.
- Brick work, plaster & painting for shops and other works as per drawing & Specification.
- Carved & decorative Jodhpur sandstones for all the cladding works for the Subway work including motifs, friezes, panels, brackets, sculptures, etc. all cut to shape & sizes as per the designs & drawings.
- Polished and flame finished colored granite stones for flooring, cladding, copings, moldings, planters, bollards etc., all cut to shape & sizes as per the patterns, designs & drawings for landscaped/ external areas.
- All the stone cladding works are to be executed with wet/ dry cladding system to be decided at site.
- Providing necessary notches/ grooves/ holes/ keys etc. in stones for joints/ dowels/ clamps, as required for fixing the same at site.
- Furnishing necessary samples and getting their approval from the Engineer In-charge and Architect before executing the work.
- All the designs, shapes, sizes, patterns, depths of carvings etc. for the crafted items shall be as per the designs and directions given by the Architect. However, the Architect/ Employer reserves the right to change/ vary the same before bulk production i.e. up to the sample approval stage, for which no extra



cost shall be paid to the Contractor.

- Road work to run the traffic.
- Any other item of work as may be required to be carried out for completing the works including all incidental works in all respects in accordance with the provisions of the contract.

Brief information included in contract Package is given below.

- The work shall be executed based on BOQ given in tender.
- Dewatering if any.
- Other Miscellaneous works as per site requirement.
- The contractor has to get necessary permission/ NOC from road and other concerned regulatory authorities for block and working in such locations.
- Day to day cleaning of worksite and adjacent roads throughout the execution period. Nothing extra shall be paid on this account.
- Clearing of site and handing over of all the works, as specified or as directed.
- All aspects of quality assurance, including testing of materials and other components of the work, as specified or as directed.
- Maintenance of the completed work during the period as specified.
- Any other item of work as may be required to be carried out for completing the construction of subway of specified length including all necessary interfaces works with system-wide Contractors in all respects in accordance with the provisions of the Contract and/or to ensure the structural stability and safety during and after construction.
- Works to be performed shall also include all general works preparatory to the construction and works of any kind necessary for the due and satisfactory construction, completion and maintenance of the works to the intent and meaning of the drawings adopted and technical specifications, to best Engineering standards and orders that may be issued by the Engineer from time to time.
- Compliance by the agency with all Conditions of Contract, supply of all materials, apparatus, plants, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop, staff, labour and the provision of proper and sufficient protective works, diversion, temporary fencing, lighting and watching required for the safety of the public and protection of works on adjoining land; first-aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties, duties or the other charges arising out of the execution of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion.



Notes:-

- 1) Back filling of area to be done with proper compaction with earth/sand up to plinth level wherever required.
- 2) There is possibility of some of the items not getting mentioned in the above list of works of subway. Contractors are requested to go through the tender drawings also in details as the works mentioned above as well as indicated in the tender drawings would be considered inclusive in the scope of work. Some of the major utilities cannot be diverted. Contractor shall take into consideration the existence of these utilities and work at these locations accordingly shall be planned.
- 3) The work is to be designed constructed and maintained as per relevant codes, specifications, Special Specifications and drawings and/or as directed by the Engineer In charge.
- 4) The work content shall also include but not limited to the following:
 - The construction of structures will have to be planned in such a manner that they do not obstruct or interfere with the existing roads and other utilities. Where work is required to be carried out at locations adjacent to such roads, utilities, structures, monuments etc. suitable safety and protection arrangements will have to be ensured for which nothing extra will be payable. It should be ensured that no damage is caused to any such element and Engineer/ Employer shall be indemnified against such damage at no extra cost.
 - The Contractor has to ensure cleanliness of the roads and footpaths by deploying man power for the same. The Contractor shall have to ensure proper booming, cleaning and washing of roads and walkways at regular interval or as and when required or directed throughout the entire stretch. Nothing extra shall be payable on this account.
 - **Barricading:** The contractor shall have to provide temporary boundary wall/ barricading as per tender drawing at all the land to be used for Construction Subway, store, site office, casting yard etc. The barricading of same will be paid as per BOQ. Other requirements of Safety, Health & Environment as specified in condition of contract on SHE version is included in quoted price.
 - Tree cutting & transplanting, after getting permission of forest department / nodal agencies. The payment of the same shall be made as per schedule.



2.1.3 STONE WORK- MONUMENT, CHATTRI, RAILING AND BENCH

- A miniature of the monument should be approved by the Architect/ Engineer –in-charge before execution at site.
- Earthwork including excavation and leveling
- Casting of R.C.C. foundations and Framed Structure including necessary formwork and scaffolding.
- Construction of Special Architectural Design elements.
- Procurement of first class export quality of stone for the work as per Drawing and specification. Furnishing necessary samples and getting their approval from the Engineer In-charge and Architect before executing the work.
- Carved & decorative Marble stone for all the cladding works for the Monument including motifs, friezes, panels, brackets, sculptures, etc. all cut to shape & sizes as per the designs & drawings
- Polished and flame finished colored granite stones for flooring, cladding, copings, moldings, planters, bollards etc., all cut to shape & sizes as per the patterns, designs & drawings for landscaped/ external areas
- All the stone cladding works are to be executed with wet/ dry cladding system to be decided at site by the Engineer In-charge and Architect
- Providing necessary notches/ grooves/ holes/ keys etc. in stones for joints/ dowels/ clamps, as required for fixing the same at site.
- Carrying out treatment with deep penetration of approved water based waterproofing chemicals prior to packaging of the stones.
- Fixing will be done with proper chemical, fastener of make like lilti, fischer etc.
- Packing, loading, unloading, etc. of all the stones and any other stone accessories and related equipment including transportation from mines to his factory/ workshop.
- Packing, crating, preparation of inventory & coding/ marking, loading, unloading and transportation of all the stones by rail, road, sea, etc. from his factory/ workshop up to the site. The Contractor shall ensure that all the items are packed suitably so that the same are not damaged during transportation.
- All the designs, shapes, sizes, patterns, depths of carvings etc. for the crafted items shall be as per the designs and directions given by the Engineer In-charge/ Architect. However, the Engineer In-



charge/ Architect reserves the right to change/ vary the same before bulk production i.e. up to the sample approval stage, for which no extra cost shall be paid to the Contractor.

2.1.4 ELECTRICAL WORK

The work to be carried out under this contract comprises of internal and external electrical Installation of the project as called in the tender documents. The Electrical Contractor shall include for the supply of the whole of the materials in accordance with the Specifications and the whole of the work of fixing necessary for the complete installation as set out in these Specifications and with the accompanying schedule and drawings, commencing from the supply authority's terminals. This also include any material, appliances, equipment not specifically mentioned herein or noted on the drawings as being furnished or installed but which are necessary and customary to make the installation complete in all respects. In general the work to be performed under this contract shall comprise supply, installation, testing & commissioning of the following-

- All conduit works including junction boxes, outlet boxes, ceiling hook boxes, wiring & earthing for lighting & power.
- All conduit works including junction boxes, outlet boxes & wiring for Low current Services (LV services) such as Telephone, data, voice, fire alarm, Access control and any other I.T. related works, C.C.T.V works, P A System and Parking management system.
- Switches, plug sockets, cover plates and wiring accessories are all of modular type.
- Earthing System comprising of Earth pits & earth strip and SWG wire for earthing the body of the equipment's complete in all respect.
- External and Façade lighting works.
- All HV & MV cabling work.
- Distribution Boards, Panels, feeder pillars, meter boards & local DB's.
- Lightning protection works (if any).
- Installation, testing & commissioning of all above said work as per I.E rules as framed by the governing agencies (PWD/CPWD/JVVNL/JDA).
- All internal wiring shall be of 1.1KV grade ISI marked and as per IS: 694 and also approved makes shall be used. As approved by the Engineer in charge.

2.1.5 PLUMBING WORK

- Proper provision has to be developed by the contractor for dewatering of subway. And ensure proper mechanism to stop flooding in subways during rain.
- New drainage system should be properly connected to the existing system
- High quality pumps and stand by pumps should be powered by generator in



case of electric cut-out

2.1.6 HORTICULTURE WORK

- Horticultural operations shall be started on ground previously leveled and dressed to required formation levels and slopes. In case where unsuitable soil is met with, it shall be either removed or, replaced or it shall be covered over to a thickness decided by the Engineer-in-charge with good earth. In the course of excavation or trenching during horticultural operations, any walls, foundations, etc. met with shall not be dismantled without pre-measurement and prior to the written permission of the Engineer-in-charge.
- Trenching in ordinary soil.
- Supply and stacking of sludge and Manure.
- Spreading and mixing good earth, sludge and manure.
- Grassing with select grass no. 1 as per landscaping drawing.
- Excavation and trenching for preparation of beds for hedge, shrubbery and trees
- Supplying and Planting of hedge, shrubbery and trees as per drawing.

2.1.7 OTHERS - GENERAL

- All aspects of quality control and quality assurance of Works including documentation.
- Providing measures for prevention or mitigation of negative environmental impacts due to construction activities.
- Provision and maintenance of fully furnished and equipped site offices for Engineer; Employer and their staff as per provisions of Contract.
- Provision of laboratory for testing, including the supply of equipment and consumables;
- Supply of colour record photographs and video cassettes of important activities of the work;
- Handing over of the works on completion after due site clearance
- Submission of as built drawings and other related documents in six copies (hard and soft).
- Rectification of the defects in the completed works during the defect liability period;
- Execution of any other item of work for the construction and completion of the Works in accordance with the provisions of Contract including all incidental items as well as preparation and submittal of reports, plans as required.



- During the period of the contract the right of way and all existing roads shall be kept open for traffic and maintained in a safe and usable condition. Residents along and adjacent to the works are to be provided with safe convenient access to their properties at all times.
- Traffic control and traffic diversions shall be used as necessary to protect the works and maintenance will be carried out as directed by the Engineer and provided in the contract.
- Construction of service roads improvement junction, electrification and shifting of utilities, provision of signal and sign boards.
- Construction of diversion and its maintenance of the diversion as per the direction of the Engineer in Charge at the cost of the contractor.

2.2 Site Information

2.2.1 Location

The project site is located in the city of Jaipur, Rajasthan. The proposed **Traffic Solution and Beautification Work at Jawahar Circle, JDA, Jaipur, Rajasthan**

2.2.2 Geotechnical Information

More detailed information can be referred in the offices of Engineer/Employer

2.2.3 Seismic Zone

Project area is in the seismic zone II as per IRC:6.

2.2.4 Climate

Maximum temperature is 47 degree centigrade in summer season while minimum temperature is around 8 degrees centigrade in winter season. Site information given above and provided elsewhere is given in good faith by the employer. The contractor shall satisfy himself regarding all aspects of site conditions and collect all site information necessary for the construction and completion of the works.

2.3 Survey and Investigations

As part of the planning and design carried out in connection with production of these bid documents comprehensive topographical field surveys and geotechnical investigations were carried out.

The geotechnical investigations report will provide information about the existing soil conditions.

The topographic survey report and geotechnical report can be referred to in the office of the executive engineer.



Any additional survey and soil investigation required for any purpose shall be done without any extra cost.

2.4 Land for Contractor's facilities

The employer shall provide the right of way of the road works and other appurtenant works to the contractor. However, the contractor shall have to make his own arrangements for the land required by him for borrow areas, quarries, site offices, testing labs, labour camps, stores, plant and casting yards etc.

2.5 Safety of the existing structure and water supply/drainage work/ electric/ telephone line/ sewerage lines.

The contractor shall have the full responsibility to ensure the safety of the existing structures. Contractor shall be fully responsible and liable to repair any damaged caused to the existing structures during the execution of construction work at his own cost and no amount shall be paid extra. The rates quoted by the contractor shall be deemed included in the unit price of the respective items.

List of suppliers as submitted to the engineer shall be approved by the Engineer Incharge after award of work. However, the supplier may be liable to be changed if engineer feels necessary at any later stage.

The contractor shall submit the work methodology to the Engineer Incharge. Contractor shall not be allowed to change construction methodology as suggested in the contract drawing. However, if contractor feels or like to change the construction methodology, it shall be done by the contractor at his own cost.

3 GENERAL REQUIREMENTS

The specification for works shall be in two parts, Technical Specifications and Supplementary Technical Specifications, which shall be read together: In the absence of any definite provision on any particular issue in the Specifications, the work shall be carried out in accordance with Special Specifications to be prepared by Contractor and approved by Engineer. Such Special Specification shall be based on technical literature comprising national MoRTH/(IRC and IS) and international specifications and good engineering practice. In case of any dispute, the decision of the Engineer Incharge shall be final and binding on the Contractor.



3.1 GENERAL TECHNICAL SPECIFICATIONS

This part shall comprise the “Specifications for Road and Bridge Works” (Fifth Revision), 2013 along with other addendum Corrigendum issued up to 28 days before the final dated of submission of the bid, issued by the Ministry of Road Transport & Highways, Government of India, and published by the Indian Road Congress (IRC), Jamnagar House, New Delhi - 110 011, with a cross reference to relevant Bureau of Indian Standards (BIS) for materials for other aspects not covered by the IRC, all deemed to be bound into this document.

Part II - Supplementary Technical Specifications

The Supplementary Technical Specifications shall comprise various Amendments/ Modification/ Additions to the “SPECIFICATION FOR ROAD AND BRIDGE WORKS” referred to in Part I above and additional specifications for particular items of work not already covered in Part I.

If a particular clause or a part thereof in "SPECIFICATION FOR ROAD AND BRIDGE WORKS" referred to under Part I above, is amended/modified/ substituted/added upon, and incorporated under Part II, referred to above, the Amendment/Modification/ Substitution/Addition to the relevant Clause or part of the Clause shall prevail.

When an amended/modified/substituted/added clause supersedes a Clause or part thereof in the said Specifications, then any reference to the Clause shall be deemed to refer to the amended/modified/substituted/added Clause or part thereof.

Insofar as amended/modified/substituted/added Clause may come in conflict or be inconsistent with any of the provisions of the said Specifications under reference, the amended/modified/ substituted/added Clause shall always prevail.

The Additional Specifications shall comprise specifications for particular item of works not already covered in Part I.

Amendments, modifications, substitutions, additions have been made to the following clauses of specifications for Road and Bridge Works (Fourth Revision).

3.2 Specifications for Road & Bridge Works by Ministry of Surface Transport (MOST), Govt. of India

Unless specifically mentioned otherwise hereafter or/and directed by the Engineer-in-charge to do so, all the civil engineering works shall be



carried out in accordance with the provisions of the "Specifications for Road and Bridge Works (Fifth Revision), called MOST Specifications hereinafter published at New Delhi in 2013, or the latest version available, by Indian Roads Congress on behalf of MOST.

3.3.1 MATERIALS AND TEST STANDARDS

3.3.1 Testing

The Contractor shall set up a field laboratory with necessary equipment's for testing of water, aggregates, cement and concrete used in the construction as per requirements of the relevant specifications. The testing of all materials shall be carried out by the Engineer-in-charge or his representative for which the contractor shall make all the necessary arrangements and bear the entire cost.

Tests which cannot be carried out in the field laboratory shall be sent for testing by the contractor to any NABL accredited or recognized laboratory/testing establishment approved by the Engineer-in-charge.

The cost of making any and all the Tests shall be borne by the Contractor if such Test is clearly intended by or provided for in the Contract.

The following instruments / apparatus (but not the least), are required in the field laboratory.

1. Digital Compression testing Machine 2000 KN Capacity electrically operated.
2. Vicat Needle Apparatus with dashpot.
3. Concrete soundness test hammer.
4. Cement autoclave.
5. Cube Moulds (ISI Marked) of different sizes.
6. Aggregate Crushing Value.
7. Aggregate impact value test apparatus.
8. Sieve Shaker.
9. Sieves of different sizes (ISI Marked).
10. Flakiness index test apparatus.
11. Proctor Compaction Apparatus.
12. Bitumen extraction test.

However, as per the site requirement EIC may direct the contractor to arrange some additional testing apparatus required in the field laboratory which are not included in the above mentioned list, at his own cost.



The contractor shall appoint separate engineer (Degree holder) of experience not less than 5 years for quality control and site laboratory who shall provide all assistance to JDA to conduct such tests. The salary/ wage of such engineer shall be deemed to be included in the cost of work and no extra payment shall be made on this account. In case of not appointing separate engineer by the contractor the JDA may appoint such engineer at its own and actual wages/ salary be deducted from the due payments of contractor

3.3.2 Sampling of Materials

Samples provided to the Engineer-in-charge for retention are to be in labeled boxes suitable for storage. Materials or workmanship not corresponding in character and quality with the approved samples will be rejected by the Engineer-in-charge or his representative and shall be removed from site as directed by the Engineer-in-charge or his representative at the contractor's cost.

Samples required for approval and testing must be supplied well in advance to allow for testing and approval. Delay to works arising from the late submission of samples will not be acceptable as a reason for delay in the completion of the work.

3.4 CONSTRUCTION EQUIPMENT

3.4.1 Tolerance

The contractor shall ensure that the major plant and equipment proposed to be deployed on the work shall meet the performance criteria specified herein. The contractor shall be required to give trial runs of these equipments for establishing their capabilities to achieve the laid down specification and tolerance to the satisfaction of the Engineer-in-charge before commencement of the work. All these equipments provided shall be of proven efficiency and shall be maintained at all time.

3.4.2 Batching Equipment

For individual batches the following tolerances shall apply based on the required weight of material.

	Percentage
Cement	: ± 1
Aggregate	: ± 2
Water	: ± 1



Notwithstanding above tolerances the construction and accuracy of equipment shall conform to IS: 2722, except that an accuracy off 0.4% over the entire range of equipment will be required.

3.4.3 Batch Type Concrete Mixer

The mixer shall be tested under normal working conditions in accordance with the method specified in IS: 4634 with a view to checking its ability to mix the ingredients to obtain a concrete of desired uniformity. The conformity of mixed concrete shall be evaluated by fixing the percentage variation in quantity of cement, fine aggregate and coarse aggregate in a freshly mixed batch of concrete.

The percentage variation between the quantities of cement, fine aggregate and coarse aggregates (as found by weighing in water) in the two halves of a batch and the average of the two halves of the batch shall not be more than the following limits:

Cement	:	8%
Fine Aggregate	:	6%
Coarse aggregate	:	5%

3.4.4 Concrete Transit Mixers

The mixer shall conform to IS: 5892 and be tested under normal working condition in accordance with the method specified in IS:4634. The tolerance limits for the variation between quantities of cement, fine aggregate and coarse aggregates shall be same as for batch type concrete mixer.

Competent authority shall have the right to determine whether all or any of the materials offered or delivered for use in the works are suitable for the purpose.

3.5 SETTING OUT

The works unless otherwise specified, shall be set symmetrical to the centre line of the bridge as shown on the drawings and design.

Reference pillars shall be established by the contractor at his own cost after carrying out the necessary survey with reference to the said drawings.

The centre line of the subway shall be extended on both ends to at least 60.0 m and the centre line pillars located not less than 3.0 m from the two ends of the bridge. These shall be so located that they are in no way disturbed during flood or during the period of construction.

The reference pillars shall be connected with some permanent features on the site that they can be correctly relocated in case they get disturbed during the construction period.



For the layout work and establishing the centre line of the subway, only steel tape shall be utilized throughout the work and where work is done by traversing, the traverse shall be closed. In case of minor errors these shall be corrected by interpolation of the layout and the centre line pillars got approved by the Engineer-in-charge.

3.6 MATERIALS FOR STRUCTURE

General

All the basic construction materials viz. cement, aggregates (coarse and fine both), reinforcement and water to be used in works shall be procured from sources approved by the Engineer-in-charge. Unless otherwise mentioned in these specifications the contractor shall identify the sources of basic materials and propose the same for approval after satisfying himself about the quality and quantity required for the work.

3.6.2 Cement

Ordinary Portland Cement (OPC) 43 grade conforming to IS: 8112 shall be used throughout construction. Cement shall be procured from reputed manufacturers who have requisite infrastructure for conducting various tests for the conformance to chemical and physical requirements specified in IS: 269. The frequency of such tests in manufacturer's laboratory shall be as per IS: 3535. Since a very good degree of quality control is desired at works, fresh cement from a single source shall be procured unless alternative source is approved by the Engineer-in-charge in writing. The make and quality of cement to be used in the work shall be subject to the approval of Engineer-in-Charge. Along with each lot of cement delivered to site a certificate from the manufacturer shall be forwarded, to the effect that the cement was tested and analyzed in accordance with the methods given in IS:4031 and IS:4032. The test results shall be included in the manufacturer's certificate.

Notwithstanding manufacturer's certificate the Engineer-in-charge if so desired may ask for retesting of cement at site or through any other recognized and approved laboratory. The cost of additional tests and samples shall be borne by the contractor.

3.6.3 Coarse Aggregate

Coarse aggregates shall consist of naturally occurring crushed stones. The aggregates shall be hard, strong, dense, durable, clear and free from veins and adherent coating, and free from injurious amounts of disintegrated pieces, alkali, vegetable matter and other deleterious substances. The presence of flaky, scoriaceous and elongated pieces shall be avoided. The coarse aggregates which



conform to the following requirement may only be considered for approval by the Engineer-in-charge:

Deleterious materials	Refer to Table 1 of IS:383
Aggregate Crushing Value	30%
Aggregate Abrasion Value	30%

Aggregate shall be supplied in single sizes. The nominal maximum size of aggregate to be used in work shall be 20mm. The other requirements for coarse aggregates shall be as per IS:383.

While submitting samples of aggregates for approval the contractor shall furnish following information pertaining to the aggregates:

Source of supply, that is, precise location of source from where the materials were procured.

Trade group of principal rock type present.

Presence of reactive minerals.

Physical characteristics.

Specific gravity.

Moisture content

Absorption value.

Aggregate crushing value.

Abrasion value

Presence of deleterious materials.

Potential reactivity of aggregate.

The tests carried out for the above shall be done in accordance with the methods specified in IS:2386.

The contractor shall satisfy himself that the material complies with the requirement of IS:383 and shall furnish a certificate to this effect to the Engineer-in-charge whenever asked for. In case the aggregates tested do not comply with any requirement of the IS standards the source for the same shall be rejected. No further samples from the rejected source shall be considered for approval. The Engineer-in-charge shall have full liberty of getting the material tested independently through recognized agency. The Contractor shall supply free of charge the material required for tests and bear all expenses for such tests.

3.6.4 Fine Aggregate

The quality, tests and acceptance criteria for fine aggregates shall be same as mentioned for the coarse aggregates. The fine aggregates shall conform to Zone II of Table 4 of IS:383.



3.7 STEEL

3.7.1 Steel reinforcement

Steel shall be procured from primary manufacturers only.

High strength deformed steel bars of TMT 500D grade shall be used and shall comply with the provisions of IS: 1786(Latest revision) For each batch of steel delivered to site the contractor shall supply the Engineer-in-charge with manufacturer's certificate stating the process of manufacture and also the test sheets signed by the manufacturer giving the result of each mechanical test and the chemical composition.

3.8 WATER

Water to be used for mixing and curing shall be clear and free from injurious amounts of oils, acids, alkalis, salts, sugar, organic materials or other substances that may be deleterious to concrete or steel. Potable water is generally considered satisfactory for mixing concrete. The maximum permissible limits for solids shall be as given below:

- Organic : 300 mg/l
- Inorganic : 3000 mg/l
- Sulphates (as SO₄) : 500 mg/l
- Chlorides (as Cl) : 1000 mg/l for reinforced concrete
250 mg/l for prestressed concrete
- Suspended matter : 2000 mg/l
- pH : < 6

3.9 STORAGE OF MATERIALS

All materials shall be placed at site in a proper way so as to prevent their deterioration or intrusion of foreign matter and to ensure their satisfactory quality and fitness for the work. The storage space must also permit easy inspection, removal and re-storage of the materials. Materials though stored in approved godown must be subjected to acceptance test prior to their immediate use.

The cement shall be stored in a suitable weather-tight building to protect it from dampness and minimize warehouse deterioration. Each consignment of cement shall be stored separately so that it may be readily identified and inspected. Cement shall be used in the sequence in which it is delivered at site.

The contractor shall prepare and maintain proper records on site in respect of the delivery, handling, storage and use of cement and shall be made available for inspection by Engineer-in-charge at any time.

The cement more than 3 to 4 months old shall invariably be tested at contractor's cost to ascertain that it satisfies the acceptability requirements.



3.10 FORMWORK AND SURFACE FINISH FOR STRUCTURES

3.10.1 Construction Operation

Only rigid steel forms shall be used unless otherwise approved by the Engineer-in-charge. Formwork shall include all temporary or permanent forms of moulds required for forming the concrete which is cast-in-situ, together with all temporary construction required for their support.

The chamfers, beveled edges and mouldings shall be made in the formwork itself. Opening for fixtures and other fittings connected with services shall be provided in the shuttering as directed by the Engineer-in-charge.

3.10.2 Formed surfaces and finish

The formwork shall be made as to produce a finished concrete true to shape, lines, levels, plumb and dimensions as shown on the drawings, subject to the following tolerances unless otherwise specified in these documents or drawings or as directed by the Engineer-in-charge.

- | | | |
|----|---------------------|---|
| a) | Sectional dimension | + 5 mm |
| b) | Plumb | + 1 in 1000 of height |
| c) | Levels | + 3 mm before any deflection has taken place. |

Tolerances given above are specified for local aberrations in the finished concrete surface and should not be taken as tolerance for the entire structure taken as a whole or for the setting and alignment of formwork, which should be as accurate as possible to the entire satisfaction of the Engineer-in-charge. Errors if noticed in any lift/tilt of the structure after stripping of forms, shall be corrected in the subsequent work to bring back the surface of the structure to its true alignment.

3.11 PREPARATION OF FORMWORK BEFORE CONCRETING

3.11.1 Special Provisions

Wherever the concreting in narrow members is required to be carried out within shutters of considerable depth, temporary openings in the sides of the shutters shall, if so directed by the Engineer-in-charge, be provided to facilitate the pouring and consolidation of the concrete. Small temporary openings shall be provided as necessary at the bottom of shutters of walls and deep beams to permit the expulsion of rubbish etc.

Formation of blotches and stains due to detachment of formwork panel from the concrete when adjacent portion in the same lift is still adhering, shall not be allowed to occur, and for this purpose, all shutters shall be struck off at the same time.



3.12 STEEL REINFORCEMENT FOR STRUCTURE

3.12.1 General

Steel reinforcement shall be stored in such a way as to avoid distortion and to prevent deterioration by corrosion. When directed by the Engineer-in-charge, the reinforcing bars shall be given a cement wash before stacking to prevent scales and rust.

The reinforcement bars bent and fixed in position shall be free from rust or scales, chloride contamination and other corrosion products. Effective methods of cleaning such as sand blasting will have to be used so that the steel is free from rust, scales and contamination.

3.12.2 Bending of Reinforcement

Bending of reinforcement shall be done as per Bar Bending Schedule to be prepared and got approved by the contractor prior to commencement of work.

3.12.3 Placing of reinforcement

Reinforcement left projecting from newly placed concrete shall be supported in such a way that there is no sag or risk or damage to the newly placed concrete. The projecting bars which are likely to be exposed for a long time shall be protected by a thick coat of neat cement grout. These shall be thoroughly cleaned and wire brushed before depositing fresh concrete around it.

3.13 CEMENT CONCRETE FOR STRUCTURES

3.13.1 Grade of concrete

Only design mix concrete shall be used in the work. The design mix concrete shall have the minimum compressive strength of 150 mm cubes at 28 days according to the denomination of the grade the concrete e.g. M 35 grade concrete shall have the minimum characteristic compressive strength of 35 Mpa.

3.13.2 Design mix concrete

The determination of the cement, aggregates and water to attain the strength specified in clause 5.11.1 above shall be made by designing the concrete mix in accordance with IS: 10262. The trial mixes for mix design shall be prepared with approved aggregates, cement and water.

Coarse aggregates of different sizes shall be combined in suitable proportion so as to result in an overall grading conforming to IS : 383.

Minimum six cubes shall be prepared from each trial mix for testing compressive strength at 28 days. Based upon the successful preliminary crushing and workability tests, the contractor shall submit mix proposals to the Engineer-in-charge who will have the right to accept any trial mix. The strength tests for concrete shall be done in accordance with IS : 516. All preliminary tests, approval, etc. shall be got done in advance by the contractor prior to



commencement of actual work at site. Failure on the part of the contractor to do so and consequent delay in completion of the works will not entitle him for any compensation whatsoever, either financially or by way of extension of time.

3.13.3 General

In proportioning concrete the quantity of both cement and aggregates shall be determined by weight. The cement shall be weighed separately from the aggregates. Water shall either be measured by volume in calibrated tanks or weighed. All measuring equipment shall be maintained in a clean and serviceable condition. The amount of mixing water shall be adjusted to compensate for moisture content in both coarse and fine aggregates. The moisture content in both coarse and fine aggregates shall be determined in accordance with IS : 2386(Part-III). Suitable adjustments shall also be made in the weights of aggregates to allow for the variation in weight of aggregates due to variation in moisture content.

3.13.4 Production of concrete

The concrete shall be produced in a central batching and mixing plant producing at least 30 cum mixed concrete per hour. The batching plant shall be either fully or semi-automatic type. A semi-automatic batcher shall be charged by devices which are separately actuated manually to allow the material to be weighed but which are actuated automatically when the designated weight of each material has been reached. Automatic batcher shall be charged by devices which, when actuated by a single starter switch will automatically started when the designated weight of each material has been reached inter locked. A batching plant essentially consists of the following components.

- Storage bins for different sizes of aggregates and cement.
- Batching equipment
- Mixers
- Central panels
- Material feeding and elevating arrangements.

The compartments of storage bins shall be approximately of equal size. The cement compartment shall be centrally located in the batching plant. It shall be water-tight and provided with necessary air vent, aeration fittings for proper flow of cement, emergency cement cut off gate. The aggregate and sand shall be charged by power operated centrally revolving chute. The entire plant from mixer floor upward shall be enclosed and insulated. The batch bins shall be constructed so as to be self cleansing during drawdown. The batch bins shall be general conform to the requirement of clause 4.0 of IS:4925.

The batching equipment shall be capable of determining and controlling the prescribed amounts of various constituent materials for concrete accurately i.e. water, cement, sand, individual size of coarse aggregates, etc.



3.13.5 Mixing concrete

The concrete shall be mixed in power driven free fall tilting type mixer fitted with abrasion resistant replaceable liners and blades. The concrete shall be mixed for 1½ to 2½ minutes in the mixer depending upon the capacity of mixer. These mixing periods are based on standard speed of rotation of mixer and of the introduction of materials including water into the mixer. Mixing time shall be increased if and when charging and mixing operations fail to produce a concrete batch of uniform composition and consistency. The mixer in the batching plant shall be so arranged that mixing action in the mixers can be observed from the operator's station. The mixer shall be equipped with a mechanically or electrically operated timing, signaling and metering device which will indicate and assure completion of the required mixing period. The mixer shall have all other components as specified in IS:4925.

3.13.6 Transportation, placing and compaction of concrete

Mixed concrete from the batching plant shall be transported to the point of placement by transit mixers or through concrete pumps. In case the concrete is proposed to be transported by transit mixer it shall not be less than 4 rev/min of the drum or greater than a speed resulting in a peripheral velocity of the drum 70 m/min at its largest diameter. The agitating speed of the agitator shall be not less than 2 rev/min nor more than 6 rev/min of the drum. The number of revolution of the mixing drum or blades at mixing speed shall be between 70 to 100 revolutions for a uniform mix, after all ingredients, have been charged into the drum. Unless tempering water is added, all rotation after 100 revolutions shall be at agitating speed of 2 to 6 rev/min and the number of such rotations shall not exceed 250. The general construction of transit mixer and other requirement shall conform to IS:5892.

In case concrete is to be transported by pumping, the conduit shall be primed by pumping a batch of mortar through the line to lubricate it. Once the pumping is started, it shall not be interrupted (if at all possible) as concrete standing idle in the line is liable to cause a plug. The operator shall ensure that some concrete is always there in the pump receiving hopper during operation. The lines shall always be maintained clean and shall be free of dents.

Except where otherwise agreed to by the Engineer-in-charge, concrete shall be deposited in horizontal layers to a compacted depth of not more than 450 mm. Unless agreed to by the Engineer, concrete shall not be dropped into place from a height exceeding 2 m. In order to avoid such situations chutes shall be used. The chutes shall be kept clean and used in such a way as to avoid segregation. Slope of the chute shall be so adjusted that concrete flows without the use of excessive quantity of water. The delivery end of chute shall be as close as possible to the point of deposit. The chute shall be thoroughly flushed with water before and after each working period and the water used for this purpose shall be discharged outside the formwork. The concrete shall be compacted by using immersion type



vibrators. When the concrete is being continuously deposited to a uniform depth along a member, vibrator shall not be operated within one meter of free end of the advancing concrete. Every effort shall be made to keep the surface of the previously placed layer of concrete alive so that the succeeding layer can be amalgamated with it by the vibration process. In case the concrete in underlying layer has hardened to such an extent that it cannot be penetrated by the vibrator but is still fresh (that is, just after initial set), an imposed bond shall be achieved between the top and underlying layer by first satisfying the lower layer before the new concrete is placed by systematically and thoroughly vibrating the new concrete. The points of insertion of vibrator in the concrete shall be so spaced that the range of action overlap to some extent and the freshly filled concrete is sufficiently consolidated at all locations. The spacing between the dipping positions of vibrator shall be maintained uniformly throughout the surface of concrete so that concrete is uniformly vibrated. The vibrating head shall be regularly and uniformly inserted in the concrete so that it penetrates of its own accord and shall be withdrawn slowly whilst running so as to allow redistribution of concrete in its way and allow the concrete to flow back into the hole behind the vibrator. The vibrator head shall be kept in one position till the concrete within its influence is completely consolidated. Vibration shall be continued until the coarse aggregate particles have blended into the surface but have not disappeared. The contractor shall keep one additional vibrator in serviceable condition to be used in the event of breakdowns.

The vibrator head shall not be brought more than 200 mm near to the formwork as this may cause formation of water stagnations. The formwork shall be strong and great care shall be exercised in its assembly. It shall be designed to take up increased pressure of concrete and pressure variations caused in the neighbourhood of vibrating head which may result in excessive local stress on the formwork. The joints of the formwork shall be made and maintained tight and close enough to prevent the squeezing out of grout or sucking in of air during vibration. The formwork to receive concrete shall be cleaned and made free from standing water, dust, etc.

In case the reinforcement has mild scales or dirt the same shall be cleaned by wire brushes. No concrete shall be placed in any part of the structure until the approval of Engineer-in-charge has been obtained. If concreting is not started within 24 hours of the approval being given, it shall have to be obtained again from the Engineer-in-charge. Concreting shall be done continuously over the area between construction joints. Fresh concrete shall not be placed against concrete which has been in position for more than 30 minutes unless a proper construction joint is formed. When concreting has to be resumed on a surface which has hardened, it shall be roughened, swept, clean, thoroughly wetted and covered with a 13 mm thick layer of mortar composed of cement and sand in same ratio as in the



concrete mix itself. This 13 mm layer of mortar shall be freshly mixed and placed immediately before placing of new concrete.

Where concrete has not fully hardened, all laitance shall be removed by scrubbing the net surface with wire or bristle brushes. Care shall be taken to avoid dislodgement of particles of coarse aggregate. The surface shall then be thoroughly wetted, all free water removed and then coated with neat cement grout. The first layer of concrete to be placed on this surface shall not exceed 150 mm in thickness and shall be well rammed against old work. Particular attention shall be given to corners and close spots.

3.14 : VARIOUS CLAUSES OF MoRTH

Sl. Nr.	Section Nr.	Section Title	Clause (Morth V TH Revision)
1.	100	General	102, 105, 106, 107, 108, 111, 112, 114, 115, 121, and 126
2.	200	Site Clearance	201 and 202
3.	300	Earthwork, Erosion Control and drainage.	301, 305, 306 and 309
4.	400	Granular Sub-Bases	401
5.	600	Concrete Pavement	601, 602 and 603.
6.	800	Traffic Signs, Markings and other Road Appurtenances	801, 803 and 804
7.	900	Quality Control for Road works	901, 903
8.	1000	Materials for Structures	1002, 1006, 1007, 1008, 1009, 1012, 1013, 1014 and 1015
9.	1100	Pile Foundations	1101, 1103, 1104, 1107, 1113, 1115, 1118 & 1119
10.	1500	Form work	1501, 1502, 1503, 1504, 1506, 1508, 1509, 1510 & 1513



Sl. Nr.	Section Nr.	Section Title	Clause (Morth V TH Revision)
11.	1600	Steel Reinforcement (un tensioned)	1602, 1604, 1605, 1606 & 1607
12.	1700	Structural Concrete	1703, 1704, 1705, 1707, 1709, 1710, 1712, 1713 & 1715
13.	2200	Substructure	2204, 2210
14.	2300	Superstructure	2305, 2306
15.	2600	Expansion Joints	2601, 2606 and 2609
16.	2700	Wearing Coat & Appurtenances	2702, 2703, 2706 and 2709
17.	3000	Maintenance of roads	3001, 3002, 3004 and 3005
18.	2000	Bearings	2005
19.	1800	Pre stressing	1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808

Additional Specifications _____

The Clauses A-1 to A-7 have been added to the "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" -2013.

CLAUSE A-1 PLANTATION OF TREES AND HEDGES

CLAUSE A-2 LEVELLING AND GRADING ROAD SIDE LAND

CLAUSE A-3 UTILITY DUCTS

CLAUSE A-4 SPECIFICATIONS FOR SCARIFICATION OF

EXISTING PAVEMENT AND PROVIDING

OVERLAY WITH GRANULAR BASE/DBM.

CLAUSE A-5 REFLECTIVE PAVEMENT MARKERS (ROAD STUDS)

CLAUSE A-6 CURING USING LIQUID MEMBRANE FORMING COMPOUND

CLAUSE A-7 PAVEMENT QUALITY CONCRETE

In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest codes and specifications of IRC and BIS in that order. Where even these are silent, the construction and



completion of the works shall conform to sound engineering practice as approved by the Engineer and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer shall be final and binding on the Contractor.

However, work shall be executed as per latest edition of MoRTH. Where any specification of MoRTH/ IRC/ BIS are silent then best international practice shall be followed including BRITISH / AASTHO Standards.



SECTION – 5

(FORM OF AGREEMENT)



SECTION -5

FORM OF AGREEMENT

This AGREEMENT is made on day of 2021 between (Name of Employer) (Mailing Address of Employer) hereinafter called "the Employer", of the one part (Name of Contractor) (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that certain works should be executed viz. (brief description work)..... and has by Letter of Acceptance dated (Date of letter of acceptance) accepted Bid by the Contractor for the execution completion and maintenance of such works. NOW THIS AGREEMENT WITNESSED AS FOLLOWS.

In this Agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to.

The following documents shall be deemed to form and be read and construed as parts of the agreement viz.:

- a) The Letter of Acceptance.
- b) NIT, Technical Bid, Bid declaration form, Other information, Special Conditions, RPPP Annexures.
- c) Instructions to Bidders (Section -1).
- d) General Conditions of Contract (Section – 2).
- e) Other Conditions of Contract (Section - 3).
- f) Technical Specification (Appendix-A) (Section – 4).
- g) Form of Agreement (Section – 5)
- h) Bank Guarantee (Section – 6)
- i) G-Schedule (Section – 7)
- j) Drawings (Section – 8)
3. The aforesaid documents shall be taken as complementary and mutually explanatory of one another.
4. In consideration of the payment to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute, complete and maintain the works in conformity in all respects with the provisions of the Contract.
5. The employer thereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the work of Contract Price at the time and in the manner prescribed by the Contract.



IN WITNESS whereof the parties have caused their respective Common Seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written, SIGNED SEALED AND DELIVERED by the.

Said
(Name)
on behalf of the Contractor

Said
(Name)
on behalf of the Contractor

In the presence of :

In the presence of :

Name:

Name:

Address

Address

This form is included in the bid documents only for the information of the bidders. Only the successful bids will in due course be required to complete the form.



SECTION – 6

(Form of Bank Guarantee)



Section - 6

Form of (Bank Guarantee) -En cashable at branch of the bank in Jaipur City.

To
Secretary,
Jaipur Development Authority,
Jaipur

Sub:

Bank Guarantee No. _____ dated _____ for [amount of Security in figures] [in words] on behalf of _____ [Name of the Bidder] against the Bid Security for Bid for **Traffic Improvement and Beautification work at Jawahar Circle, Jaipur, Rajasthan**

WHEREAS, _____ [name of Bidder with address] **(hereinafter called “the Bidder”)** has submitted his Bid dated for the work of **Traffic Improvement and Beautification work at Jawahar Circle, Jaipur, Rajasthan. (Name of Work)** (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that we _____
_____ (Name of Bank) of having our registered office at _____ [name of country] having our registered office at _____ (hereinafter called “the Bank”) are bound unto Secretary, Jaipur Development Authority. (Hereinafter called “the Employer”) in the sum of Rupees _____ **[Amount of Security in figures]** _____ (in words) only for which payment will and truly to be made to the said Employer, the Bank binds itself, its successors, and assigns by these presents.

That on demand of JDA, this Bank Guarantee is encashable at following branch in Jaipur City.

1. Name of Bank:
2. Name of the branch with branch code:
3. Address:
4. E-Mail Id:
5. Telephone No.
6. Fax No.:

SEALED with the Common Seal of the said Bank this _____ day of _____ of 20____.

THE CONDITIONS of this obligation are:



- (1) If the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- (2) If the Bidder refuses to accept the correction of errors in his bid;
- (3) If the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;
 - (a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, or
 - (b) Fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or more of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 30 days after the date of expiration of the Bid Validity, as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

The amount covered under the above Bank Guarantee shall be automatically be credited in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through **ISFC code No ICICI 006754. Bank Account No. 675401700518** on the date of expiry or its validity, unless the agencies get it re-validated well before its expiry date or produce NOC from JDA in written for its release.

Date _____ Signature _____ of _____ the
Bank _____

Witness _____ Seal _____
[Signature, Name and Address]

[Note: To be furnished on appropriate non-judicial stamps.]

SECTION – 7

**(SAFETY, HEALTH and
ENVIRONMENT MANAGEMENT
CLAUSE)**

LABOUR SAFETY PROVISIONS

- 1.0 Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical).
- 2.0 Scaffolding or staging more than 3.6m (12 feet) above the ground or floor, swung or suspended from an overhead support or erected with stationery support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3 feet) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 3.0 Working platforms, gangways, and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6m (12 feet) above ground level or floor level, they should be closely boarded, should have adequate width & should be suitable fastened as described in (2.0) above.
- 4.0 Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm (3 feet).
- 5.0 Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30 feet) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11.5") for ladder up to and including 3m (10 feet) in length. For longer ladders this width should be increased at least $\frac{1}{4}$ " for each additional 30 cm (1 ft.) of length. Uniform step spacing shall not exceed 30 cm (12"). Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of the work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident, and shall be bound to bear the expenses of defense of every suit, action or other proceeding at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person or which may, with the consent of the Contractor, be paid to compensate any claim by any such person.
- 6.0 **EXCAVATION AND TRENCHING**
All trenches, 1.2mts. (four feet) or more in depth, shall at all times be supplied with at least one ladder for each 30m. (100 feet) in length or fraction thereof, ladder shall be extended from bottom of the trench to at least 90cm (3feet) above the surface of the ground. The side of the trenches, which are 1.5 m. (5feet) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger or sides to collapsing. The excavated materials shall not be placed within 1.5m (5 feet) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.

- 7.0 Demolition - Before any demolition work is commenced and also during the progress of the work following precautions shall be observed:
- 7.1 All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- 7.2 No electric cable or apparatus which is likely to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
- 7.3 All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be overloaded with debris or materials as to render it unsafe.
- 8.0 All necessary personal safety equipments as considered adequate by the Engineer-in-charge should be kept available for the use of persons employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate step to ensure proper use of equipment by those concerned. The following safety equipment shall be invariably provided.
- 8.1 Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- 8.2 Those engaged in white washing and mixing or stacking of cement bags or any materials which are injurious to the eye shall be provided with protective goggles.
- 8.3 Those engaged in welding works shall be provided with welders protective eye shields.
- 8.4 Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe interval.
- 8.5 When workers are employed for works in sewers and manholes, which are in active use, the Contractors shall ensure that the manhole covers are opened and ventilated at-least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident the public. In addition, the contractor shall ensure that the following safety measures are adhered to:
- a. Entry for workers into the sewer line shall not be allowed except under supervision of the JE or any other higher officer.
 - b. At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manholes for working inside.
 - c. Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes color in the presence of such gases and gives indication of their presence.
 - d. Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.

- 8.6.2 Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
- 8.6.3 Overalls shall be supplied by the Contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.
- 8.6.4.1a) White lead, sulphate or lead work products containing those pigments shall not be used in painting operation except in the form of paste or of paints ready for use.
 - b) Measures shall be taken whenever required in order to prevent danger arising from the application of paint in the form of spray.
 - c) Measures shall be taken, whenever practicable to prevent danger arising out of dust caused by dry rubbing down and scrapping.
- 8.6.4.2a) adequate facilities shall be provided to enable working painter to wash during and on cessation of work.
 - b) Suitable arrangements shall be made to prevent clothing put off during working hours being spoiled by painting materials.
- 8.6.4.3a) Cases of lead poisoning and of suspected lead poisoning shall be notified and shall be subsequently verified by a medical man appointed by the competent authorities of J.D.A.
 - b) The J.D.A may require when necessary a medical examination of workers.
 - c) Instructions with regard to the special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
- 9.0 When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provisions should be made for prompt first aid treatment for all injuries likely to be sustained during the course of the work.
- 10.0 Use of hoisting machines and tackle including their attachment encourage and supports shall conform to the following standard of conditions.
- 10.1 a) these shall be of good mechanical construction, sound material and adequate strength and free from patent, defects and shall be kept in good working order.
 - b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- 10.2 Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in-charge of any hoisting machine including any scaffolding, winch or giving signals to operator.
- 10.3 In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each

safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this clause shall be loaded beyond the safe working load except for the purpose of testing.

- 10.4 In case of J.D.A machines, the safe working load shall be notified by the Engineer-in-Charge. As regards Contractor's machines the Contractor shall notify the safe working load of the machine to the Engineer-in-charge whenever he brings any machinery to site of work and get verified by the Engineer-in-Charge.
- 11.0 Motors gearing, transmission electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguard. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations, which are already energized, insulating mats, wearing apparel, such as gloves sleeves and boots as may be necessary be provided. The worker should not wear any rings, watches and carry keys or other materials, which are good conductors of electricity.
- 12.0 All scaffold, ladders, and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- 13.0 These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place of work spot. The person responsible for compliance of the safety codes shall be named therein by the contractor.
- 14.0 To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the Contractor shall be open to inspection by J.D.A Official or their representatives.
- 15.0 Notwithstanding the above Clauses from (i) to (xiv) there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS

1.0 APPLICATION

These rules shall apply to all building and construction works in which 20 (twenty) or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contractor work is in progress.

2.0 DEFINITION

Work place means a place where twenty or more workers are ordinarily employed or are proposed to be employed in connection with construction work on any day during the period during which the contract work is in progress.

3.0 FIRST-AID FACILITIES

3.1 At every work place first aid facilities shall be provided and maintained, so as to be easily accessible during working hours, First-Aid boxes at the rate of not less than one box per 150 contract labour or part thereof ordinarily employed.

3.2 The First-Aid boxes shall be distinctly marked with a red cross on white background and shall contain the following equipments:

3.2.1 a) For work places in which number of contract labour employed does not exceed 50, Each First-Aid box shall contain the following equipments:

- i. Small sterilized dressings.
- ii. Medium size sterilized dressings. iii.

Large size sterilized dressings.

iv. Large sterilized burn dressings.

v. 1 (30 ml) bottle containing a two percent alcoholic solution of iodine.

vi. 1 (30 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.

vii. 1 snakebite lancet.

viii. 1 (30 gms) bottle of potassium permanganate crystals. ix.

1 pair of scissors.

x. 1 copy of the First-Aid leaf-let issued by the Director General, Factory Advise Service & Labour Institute, Government of India.

xi. 1 bottle containing 100 tablets (each of 5 grams) of aspirin. xii.

Ointment for burns.

xiii. A bottle of suitable surgical antiseptic solution.

- 3.2.2 For work places in which the number of contract labour exceed 50. Each First-Aid box shall contain the following equipments:
- i) 12 small sterilized dressings.
 - ii) 6 medium size sterilized dressings.
 - iii) 6 large size sterilized dressings.
 - iv) 6 large size sterilized burn dressings.
 - v) 6 (15 gms) packet sterilized cotton wool.
 - vi) 1 (60 ml.) bottle containing a two percent iodine alcoholic solution.
 - vii) 1 (60 ml.) bottle containing salvolatile having the dose and mode of administration indicated on the label.
 - viii) 1 - roll of adhesive plaster.
 - ix) 1 snake - bite lancet.
 - x) 1 (30 gms.) Bottle of potassium permanganate crystals.
 - xi) 1 pair of scissors.
 - xii) 1 copy of the First-Aid leaf-let issued by the Director General, Factory Advice Service and Labour Institutes, Government of India.
 - xiii) A bottle containing 100 tablets (each of 5 grams) of aspirin.
 - xiv) Ointment for burns.
 - xv) A bottle of suitable surgical antiseptic solution.
- 3.3 Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- 3.4 Nothing except the prescribed contents shall be kept in the First Aid box.
- 3.5 The First Aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- 3.6 A person in charge of the First-Aid box shall be a person trained in First-Aid treatment in work places where the number of labour employed is 150 or more.
- 3.7 In work places where the number of labour employed is 500 or more and hospital facilities are not available within easy distance of the works, first-Aid Posts shall be established and run by a trained Compounder. The Compounder shall be on duty and shall be available at all hours when the workers are at work.
- 3.8 Where work places are situated in places, which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or persons suddenly taken ill to the nearest hospital.
- 4.0 **DRINKING WATER**
- 4.1 In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.

- 4.2 Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- 4.3 Every water supply of storage shall be at a distance of not less than 50 feet from any latrines drain or other source of pollution, where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap-door which shall be dust and water-proof.
- 4.4 A reliable pump shall be fitted to each covered well, trap-door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5.0 WASHING FACILITIES

- 5.1 In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of labour employed herein.
- 5.2 Separate and adequate screening facilities shall be provided for the use of male and female workers.
- 5.3 Such facilities shall be conveniently accessible and shall be kept clean and hygienic condition.

6.0 LATRINES AND URINALS

- 6.1 Latrines shall be provided in every work place on the following scale, namely:

- a) Where females are employed there shall be at least one latrine for every 25 females.
- b) Where males are employed, there shall be at least one latrine for every 25 males.

Provided that where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females, as the case may be, upto the first 100, and one for every 50 thereafter.

- 6.2 Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- 6.3 Construction of Latrines: The inside walls shall be constructed of masonry or some suitable heat resisting non-absorbent materials and shall be cement washed inside and outside at least once a year. Latrine shall not be a standard lower than bore-hole system.
- 6.4 (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women only" as the case may be.

(b) The notice shall also bear the figure of man or of a woman, as the case may be.
- 6.5 There shall be at least one urinal for male workers up to 50 and one for female workers up to 50 employed at a time. Provided that where the number of male or female workmen, as the case may be, exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females up to the first 500 and one for every 100 or part thereof, thereafter.

- 6.6 a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.

b) Latrines and urinals other than those connected with a flush sewerage system shall comply with the requirements of the Public Health Authorities.

- 6.7 Water shall be provided by means of a tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.

6.8 Disposal of Excreta

Unless otherwise arranged for by the local sanitary authority arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternatively, excreta may be disposed off by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm layer of waste or for refuse and then covering it with a layer of earth for fortnight (when it will turn into manure).

- 6.9 The Contractor shall, at his own expense, carry out all instruction issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the Contractor's workmen or employees on the site. The Contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such work on his behalf.

7.0 PROVISION OF SHELTER DURING REST

At every place, there shall be provided, free of cost, four suitable sheds, two for males and the other two for rest separately for the women labour. The height of each shelter shall not be less than 3 meters from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sqm. per head.

Provided that the Engineer-in-Charges may permit, subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8.0 CRECHES

- 8.1 A every work place, at which 20 or more women workers are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedrooms.

The rooms shall be constructed on standard not lower than the following:

- i) Thatched roof
- ii) Mud floor and walls.
- iii) Planks spread over the mud floor and covered with matting

- 8.2 The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.

- 8.3 The Contractor shall supply adequate number of toys and games in the playroom and sufficient number of cots and beddings in the bed-room.

- 8.4 The Contractor shall provide one Ayaa to look after the children in the crèche when the number of women workers does not exceed 50; and two when, the number of women workers exceed 50.
- 8.5 The use of the rooms/earmarked as creches shall be restricted to children, their attendant and mother of the children.

9.0 CANTEENS

- 9.1 In every work place where the work regarding the employment of contract labour is likely to continue for six months and wherein contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the Contractor for the use of such labour.
- 9.2 The canteen shall be maintained by the Contractor in an efficient manner.
- 9.3 The canteen shall consist of at least a dining hall, kitchen, and storeroom, pantry and washing places separately for workers and utensils.
- 9.4 The canteen shall be sufficiently lighted at all times when any person has access to it.
- 9.5 The floor shall be made of smooth and impervious material and inside walls shall be lime washed or colour washed at least once in each year.
- Provided that the inside walls of the kitchen shall be lime-washed every four months.
- 9.6 The premises of the canteen shall be maintained in a clean and sanitary condition.
- 9.7 Waste Water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- 9.8 Suitable arrangements shall be made for the collection and disposal of garbage.
- 9.9 The dining hall shall accommodate at a time 30 persons of the labour working at time.
- 9.10 The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chair shall not be less than one square metre per dinner to be accommodated.
- 9.11 a) A portion of the dining hall, and service counter shall be partitioned off and reserved for women workers in proportion to their number.
- b) Washing places for women shall be separate and screened to secure privacy.
- 9.12 Sufficient tables, stool, chairs or benches shall be available for the number of dinners to be accommodated.
- 9.13.1 a) There shall be provided and maintained sufficient utensils, crockery, furniture and any other equipment necessary for the efficient running of the canteen.
- b) The furniture, utensils and other equipment shall be maintained in a clean and hygienic condition.
- 9.13.2 a) Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
- b) A service counter, if provided, shall have top of smooth and impervious material.

- c) Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.
- 9.14 The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the labour.
- 9.15 The charge for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit' No loss' and shall be conspicuously displayed in the canteen.
- 9.16 In arriving at price of food stuffs, and other articles served in the canteen, the following items shall not be taken into consideration as expenditure, namely:
 - a) The rent of land building;
 - b) The depreciation and maintenance charges for the building and equipment provided for the canteen;
 - c) The cost of purchase, repair and replacement of equipment including furniture, crockery, cutlery and utensils;
 - d) The water charges and other charges incurred for lighting and ventilation;
 - e) The interest and amounts spent on the provision and maintenance and equipment provided for in the canteen;
- 9.17 The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

10.0 ANTI MALARIAL PRECAUTIONS

The Contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrows pits which may have been dug by him.

11.0 AMENDMENTS

J.D.A may from time to time, add to or amend these rules and issue such directions as it may consider necessary for the purpose of removing any difficulty which may arise in the administration hereof.

CONTRACTOR'S LABOUR REGULATIONS

1.0 SHORT TITLE

These regulations may be called the Contractor "Labour Regulations".

2.0 Definitions

2.1 "Workman" means any person employed by the J.D.A or its Contractor directly or indirectly through a sub-contractor, with or without the knowledge, of the J.D.A to do any skilled, semi-skilled, un-skilled, manual, supervisory, technical or clerical work for hire or reward, whether, the terms of employment are expressed or implied but does not include any person-

a)	Who is employed mainly in a managerial or administrative capacity; or
b)	Who being employed in a supervisory capacity draws wages exceeding Rupees Two Thousand Five hundred per person or exercises either by the nature of the duties attached to the office or by reason of powers vested to him, functions mainly of managerial nature.
c)	Who is an out worker, that is to say, a person to whom any articles or materials are given out by or on behalf of the principal employer to be made up cleaned, washed, altered, ornamental finished, repaired, adopted or otherwise processed for sale for the purpose of the trade or business of the principal employer and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.

2.2 "Fair Wages" means wages whether for time or piece work fixed and notified under the provisions of the minimum Wages Act from time to time.

2.3 "Contractor" shall include every person who undertake to produce a given result other than a mere supply of goods or articles of manufacture through labour or who supplies labour for any work and includes a sub-contractor.

2.4 "Wages" shall have the same meaning as defined in the Payment of Wages Act.

2.4.1 Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.

2.4.2 When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week he shall be paid overtime for the extra hours put in by him at double the ordinary rate of wages.

2.4.3.1 Every worker shall be given a weekly holiday on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time, irrespective of whether such worker is governed by the Minimum Wages Act or not.

2.4.3.2 Whether the Minimum Wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

- 2.4.3.3 Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substitute holiday to him for the whole day on one of the five days immediately before or after the normal weekly holidays and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

3.0 DISPLAY OF NOTICE REGARDING-WAGES, ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clean and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers, giving the minimum rates of wages fixed under the Minimum Wages Act, the actual wages being paid, the hours of work for which such wages are earned, wage period, dates of payment of wages and other relevant information as per Appendix 'A'.

4.0 PAYMENT OF WAGES

- 4.1 The contractor shall fix wage periods in respect of which wages shall be payable.
- 4.2 No wage period shall exceed one month.
- 4.3 The wages of every person employed as labour in an establishment or by a contractor where less than one thousand, such persons are employed shall be paid before the expiry of the seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- 4.4 Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- 4.5 All payments of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- 4.6 Wages due to every worker shall be paid to him direct or to other person authorized by him in this behalf.
- 4.7 All wages shall be paid in current coin or currency or in both.
- 4.8 Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- 4.9 A notice showing the wage period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.
- 4.10 It shall be the duty of the contractor to ensure the disbursement of wages in the presence of the Engineer or any other authorized representatives of the Engineer-in-Charge who will be required to be present at the place and time of disbursement of wages by the contractor to workmen.
- 4.11 The contractor shall obtain from the Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form:

"Certified that the amount shown in column No. 14(net Amount paid) has been paid to the workmen concerned in my presence on..... at"

5.0 FINES AND DEDUCTIONS, WHICH MAY BE MADE FROM WAGES

5.1 The wages of a worker shall be paid to him without any deduction of any kind except the following—

a)	Fines
b)	Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
c)	Deduction for damage to or loss of goods expressly entrusted to the employed persons for custody, or from loss of money or any other deduction which he is required to account where such damage or loss is directly attributable to his neglect or default.
d)	Deduction for recovery of advances or for adjustment of over payment of wages, advances granted shall be entered in a register.
e)	Any other deduction, which the Central Government may from time to time allow.

5.2 No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved by the Chief Labour Commissioner.

NOTE: An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-I.

5.3 No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.

5.4 The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a Rupee of the total wages, payable to him in respect of that wage period.

5.5 No fine imposed on any worker shall be recovered from him in installment, or after the expiry of sixty days from the date on which it was imposed.

5.6 Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

6.0 LABOUR RECORDS

6.1 The contractor shall maintain a "Register of persons employed" on work on contract in form XIII of the CL (R&A) Central Rules 1971 (Appendix-B).

6.2 The contractor shall maintain a "Muster Roll" register in respect of all workmen employed by him on the work under contract in from XVI of the CL (R&A) Rules 1971 (Appendix-C).

- 6.3 The contractor shall maintain a "Wage Register" in respect of all workmen employed by him on the work in form (Appendix-D).
- 6.4 Register of accidents - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
- a) Full particulars of the labourers who met with accident.
 - b) Rate of wages
 - c) Sex
 - d) Age
 - e) Nature of accident and cause of accident.
 - f) Time and date of accident.
 - g) Date and time when he/she admitted in Hospital
 - h) Date of discharge from the Hospital
 - i) Period of treatment and result of treatment
 - j) Percentage of loss of earning capacity and disability as assessed by Medical Officer.
 - k) Claim required to be paid under Workmen's Compensation Act.
 - l) Date of payment of compensation.
 - m) Amount paid with details of the person to whom the same was paid.
 - n) Authority by whom the compensation was assessed.
 - o) Remarks.
- 6.5 Register of Fines - The contractor shall maintain a "Register of Fines" in the form (Appendix-H).
- The contractor shall display in a good condition and in a conspicuous place of work the approved list of Acts and Omission for which fines can be imposed (Appendix-I).
- 6.6 Register of Deductions – The contractor shall maintain a "Register of Deductions" for damage or loss in form (Appendix-J).
- 6.7 Register of Advances – The contractor shall maintain a "Register of Advances" in form (Appendix-K).
- 6.8 Register of Overtime - The contractor shall maintain a "Register of Overtime" in form (Appendix-L).
- 7.0 ATTENDANCE CARD-CUM WAGE SLIP:**
- 7.1 The contractor shall issue an attendance card-cum-wage slip to each workman employed by him in the specimen form at (Appendix-E).
- 7.2 The card shall be valid for each wage period.
- 7.3 The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.

- 7.4 The card shall remain in possession of the worker during the wage period under reference.
- 7.5 The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- 7.6 The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

8.0 EMPLOYMENT CARD

The contractor shall issue an Employment Card in form to each worker within three days of the employment of the worker (Appendix-F).

9.0 SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a service certificate in form Appendix-G.

10.0 PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 and 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge, Labour Officer.

11.0 POWER OF LABOUR OFFICERS TO MAKE INVESTIGATIONS INQUIRY

The Labour Officer or any other person authorized by J.D.A on its behalf shall have power to make inquiry with a view to ascertaining and enforcing due and proper observance of the Fair Wage Clauses and the Provisions of Regulations. He shall investigate into any complaint regarding the default made by the contractor or sub-contractor in regard to such provision.

12.0 INSPECTION OF BOOK AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour officer or any other person, authorized by the Central Government on his behalf.

13.0 SUBMISSION OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

14.0 AMENDMENTS

The J.D.A may from time to time, add or amend the regulations and on any question as to the application, interpretation or effect of these regulations the decision of the Zonal Chief concerned shall be final.

PENALTY

1.0 Charges to be recovered from contractor for unsafe act or condition

- 1.1 JDA has built an image of safety conscious organisation meticulously over a period of many years. Any reportable accident (fatality / injury) results in loss of life and/or property damage. These accidents not only result in loss of life but also damage the reputation of JDA. Most of the accidents are avoidable and caused preliminary due to contractors' negligence. Hence JDA shall recover the cost of damages from the contractors for every reportable incident (fatality / injury).
- 1.2 In addition every JDA work site is exposed to public scrutiny as the work is executed just on the right-of-way. Any unsafe act / unsafe condition observed by public further damage our reputation. Because of the non-voluntary compliance of contractors to the condition of contract on SHE and project SHE manual, JDA has been forced to establish safety-enforcing organization. The cost of established such organization is to be recovered from contractors for all observed safety violations at sites.
- 1.3 The following table indicates the Safety, Health and Environment violation (unsafe act / unsafe condition) and charges to be recovered from contractors subject to a maximum limit @ 0.1% of the contract value in addition to all other penalties / compensation./ liquidated damages.

S.N.	TOPIC	UNSAFE ACT/UNSAFE CONDITION	DEDUCTABLE AMOUNT
1.	Injury and Incidence reporting	i) Fatal accidents ii) Injury accident iii) Abnormal delay in reporting accidents or will full suppression of information about any accidents / dangerous occurrence	i. Rs.1,00,000 for every fatality ii. Rs.15,000 for first grievously injured person and Rs.25,000 for every subsequent grievously injured person iii. Rs.75,000 for first violation and Rs.1,00,000 for subsequent violations
2.	Housekeeping	i) Housekeeping maintenance register not properly maintained up to date ii) Surrounding areas of drinking water tanks / taps not hygienically cleaned / maintained iii) Office, stores, toilet / urinals not properly cleaned and maintained. iv) Required dustbins at appropriate places not provided / not cleaned. v) Stairways, gangways, passageways blocked. vi) Lumber with protruding nails left as such vii) Openings unprotected	Rs.2,000 per single violation.

		viii) Excavated earth not removed within a reasonable time. ix) Truck carrying excavated earth not covered / tyres not cleaned. x) Vehicles / equipments parked / placed on roads obstructing free flow of traffic xi) Unused surplus cables / steel scraps lying scattered xii) Wooden scraps, empty wooden cable drums lying scattered xiii) Water stagnation leading to mosquito breeding	
3.	Working at Height / Ladders and Scaffolds	i) Not using or anchoring Safety Belt ii) Not using Safety Net iii) Absence of life line or anchorage point to anchor safety belt iv) Using Bamboo ladders v) Painting of ladders vi) Improper usage (less than 1m extension above landing point, not maintaining 1:4 ratio) vii) Aluminium ladders without base rubber bush viii) Usage of broken / weak ladders ix) Usage of re-bar welded ladders x) Improper guardrail, toe board, barriers and other means of collective protection xi) Improper working platform xii) Working at unprotected fragile surface xiii) Working at unprotected edges	Rs.5,000 per single violation.
4.	Lifting appliances and gear	i) Non availability of fitness certificate. ii) Documents not displayed on the machine or not available with the operator. iii) Maximum Safe Working Load not written on the machine. iv) Automatic safe load indicator not provided or not in working condition. v) Age of the operator less than 21 years or without any license. vi) Person riding on crane. vii) Creating more noise and smoke viii) Absence of portable fire extinguisher in driver cabin ix) Fail to guard hoist platform	Rs.5,000 per single violation.

		x) No fencing of hoist rope movement area. xi) Hoist platform not in the horizontal position.	
5.	Site Electrical safety	i) Exposed electric lines (fermentative damage) and circuits in the workplace. ii) Inserting of bare wires into the socket iii) Improper grounding for the electrical appliances iv) Electrical cables running on the ground	Rs.5,000 per single violation.
6.	Gas Cutting	i) Wrong colour coding of cylinder. ii) Cylinders not stored in upright position. iii) Fail to put cylinders in a cylinder trolley. iv) Damaged hose. v) Using domestic LPG cylinders vi) Fail to store cylinder 6.6m away from fire prone materials vii) Fail to use hose clamps viii) Fire extinguisher not placed in the vicinity during operation	Rs.5,000 per single violation.
7.	Welding	i) Voltmeter and Ammeter not working ii) Improper grounding and return path. iii) Damaged welding cable iv) Bare openings in the cable. v) Non-availability of separate switch in the transformer vi) Non-availability of main switch control to switch off power to the welding unit. vii) Usage of reinforcement rod as return conductor viii) Damaged holder ix) Fire extinguisher not placed in the vicinity during operation	Rs.5,000 per single violation.
8.	Fire precaution	i) Smoking and open flames in fire prone area ii) Using more than 24V portable electrical appliances in the fire prone area iii) Not proper ventilation in cylinder storage area. iv) Absence of fire extinguishers v) Fire extinguishers not refilled once in a year. vi) Fire extinguisher placed in a not easily	Rs.2,000 per single violation.

		accessible location	
9.	Traffic Management	a) Barricades i) Not Cleaned ii) Not in alignment iii) Not numbered iv) Not painted v) Red lights / reflectors not working vi) Damages not repaired vii) Not secured properly viii) Barricade inspector not employed ix) Protruding parts / portions repaired x) Barricades maintaining register not properly maintained up to date	Rs.2,000 per single violation.
		b) Contractor Vehicles i) Over loading of vehicles ii) Unfit drivers or operators iii) Unlicensed vehicles iv) Absence of traffic marshals v) Absence of reversing alarm vi) Absence of fog light (at winter) vii) Power / hand brakes not in working condition.	Rs.2000 per single violation.
10.	PPE	i) Not having ii) Not wearing (or) using and kept it elsewhere iii) Using damaged one iv) Using wrong type v) Using wrong color helmet or helmet without logo vi) Using for other operation (e.g. Using safety helmet for storing materials or carrying water from one place to other)	Rs.500 per single violation
11.	Occupational Health	i) Fail to conduct Medical examination to workers ii) Workers not having ID card iii) Inadequate number of toilets iv) Toilets not cleaned properly v) Absence of water facilities for toilets and washing places vi) Absence of drinking water vii) Absence of first-aid person in work site. viii) Absence or inadequacy of first-aid box. ix) Smoking inside the construction site	Rs.1,000 per single violation.

		x) Drink and drive or work	
		xi) Excessive noise and vibration	

Appendix - 'A'

LABOUR BOARD

Name of work

Name of Contractor

Address of Contractor

Name and Address of Unit

Name of Labour Enforcement Officer

Address of Labour Enforcement Officer

Date:

S. No.	Category	Minimum wage fixed	Actual wages paid	Number present	Remarks

Weekly Holiday

Wage Period

Date of Payment of wages

Working hours

Rest interval

Appendix - 'B'

FORM 13

See rule 75

REGISTER OF WORKMEN EMPLOYED BY CONTRACTOR

Name and Address of Contractor

Name and Address of Establishment in
under which contract is carried on

Nature and location of work

Name & Address of Principal Employer

Sl. No.	Name and surname of workman	Age & sex	Father's Husbands Name	Nature of employment / designation	Permanent home address of the workman (village and Tehsil Taluk and District)	Local address
1.	2.	3.	4.	5.	6.	7.

Date of commencement of Employment	Signature or thumb impression of the workman	Date of termination of employment	Reasons for termination	Remarks
1.	2.	3.	4.	5.

FORM XVI

(See Rule 78(2) (193)

MUSTER ROLL

Name and address of contractor

Name and address of establishment in/under
which contract is carried on

Nature and location of work

Name and Address of Principal Employer

For the month / fortnight

Appendix - 'C'

S. No.	Name of the workman	Sex	Father's/ Husband's Name	Dates					Remarks
1.	2.	3.	4.	5.					6.
				1	2	3	4	5	

Appendix - 'D'

FORM XVII (See Rule)

78(2) (03) REGISTER OF

WAGES

Name and address of contractor

Name and address of establishment in/under
which contract is carried on

Nature and location of work

Name and Address of Principal Employer

Wage period: per month/ fortnightly

S. No.	Name of Workman	Serial No. in the register of workman	Designation nature of work done	Nos. of days worked	Units of work done	Daily rate of wages/ piece rate	Basic Wages
1.	2.	3.	4.	5.	6.	7.	8.

Dearness allowance	Overtime	Other cash payments (Nature of payments to be indicated)	Total	Deduction if any (indicate nature)	Net Amt paid	Signature thumb impression of the workman	Initial contractor or his representative
9.	10.	11.	12.	13.	14.	15.	16.

Appendix - 'E'

FORM XIX

[SEE RULE 78 (2) (B)]

W A G E S L I P

Name and address of contractor

Name and Father's/Husband/s Name of workman

Nature and location of work

For the Week/Fortnight/Month ending

1. No. of days worked
2. No. of Units worked in case of piece rate workers
3. Rate of daily wags/piece rate
4. Amount of overtime wages
5. Gross wages payable
6. Deductions if any
7. Net amount of wages paid

Sign of the Contractor

Appendix - 'F'

WAGE CARD

Wage Card No.

Name and address of Contractor

Date of Issue

Nature of work with location

Designation

Name of workman

Month/Fortnight

Rate of Wages

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

26 27 28 29 30 31

Morning

Rate

Evening

Amount

Initial

Received from

the sum of Rs.

On account
of my wagon.

Signature

The wage card is valid for one month from the date of issue.

Appendix 'F'

FORM XIV

(See Rule 76)

EMPLOYMENT CARD

Name and address of contractor

Name and address of establishment under which
The contract is carried out

Nature and location of work

Name and address of Principal Employer

1. Name of the workman
2. S. Name in the register of workman employed
3. Nature of Employment/Designation
4. Wage rate (with
particulars of unit in
case of piece work)
5. Wage Period
6. Tenure of employment
7. Remarks

Signature of Contractor

Appendix - 'G'

Form XV
(See Rule 77)
(SERVICE CERTIFICATE)

Name and address of contractor Nature and

location of work Name and address of

workman Age or date of birth Identification

Marks Father's/Husbands Name

Name and address of establishment in under which contract is
carried on

Name and address of Principal Employer

	Total period of which employed				
S. No.	From	To	Nature of work	Rate of wages (with particular s of unit In case of piece work)	Remarks
1.	2.	3.	4.	5.	6.

Signature

Appendix 'H

Form XII

[See Rule 78 (2) (d)]

REGISTER OF FINES

Name and address of contractor

Name and address of establishment in/ under which contract is carried on

Nature and location of work

Name and address of workman

Name and address of Principal Employer

S. No.	Name of workman	Father's/Husband Name	Designation/nature of employment	Act/Omission for which fine imposed	Date of offence
1.	2.	3.	4.	5.	6.

Whether workman showed cause against fine	Name of person in whose presence employees explanation was heard	Wage period and wages payable	Amount of fine Imposed	Date on which fine realized	Remarks
7.	8.	9.	10.	11.	12.

APPENDIX-'I'

LIST OF ACTS AND OMISSIONS FOR WHICH FINES CAN BE IMPOSED

In accordance with rule of Labour Regulations, to be displayed prominently at the site of work both in English and local language.

1. Willful insubordination or disobedience, whether alone or in combination with other.
2. Theft, fraud or dishonestly in connection with contractors beside a business or property of J.D.A
3. Taking or giving bribes or any illegal gratifications
4. Habitual late attendance.
5. Drunk-ness fighting riotous or disorderly or indifferent behaviour.
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked.
8. Habitual indiscipline.
9. Causing damage to work in the progress or to property of the J.D.A or of the contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving the false information regarding name, age, fathers name etc.
13. Habitual loss of wage cards supplied by the employer.
14. Unauthorized use of employers property of manufacturing or making of unauthorized articles at the work place.
15. Bad workmanship in construction and maintenance by skilled workers, which is not approved by the J.D.A for which the contractors are compelled to undertake rectifications.
16. Making false complaints and/or misleading statements.
17. Engaging on trade within the premises of the establishment.
18. Any unauthorized divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorized by the employer.
20. Holding meeting inside the premises without previous sanction of the employers.
21. Threatening or intimidating any workman or employee during the working hours within the premises

REGESTER
OF
DEDUCTION
FOR

Appendix - 'J'

**Form
XX**

**[See Rule 78 (2)
(d)]**

REGISTER OF DEDUCTION FOR DAMAGES OR LOSS

Name and address of contractor

Name and address of establishment in/ under which
contract is carried on

Nature and location of work

Name and address of Principal Employer

S. No.	Name of workman	Father's/Husband Name	Designation/ nature of employment	Particulars of damage of loss	Date of damage/loss
1.	2.	3.	4.	5.	6.

Whether workman showed cause against deductions	Name of person in whose presence employees explanation was heard	Amount of deduction Imposed	No. of installment	Date of recovery		Remarks
				First insta- llment	Last Insta- llment	
7.	8.	9.	10.	11.	12.	13.

Appendix - 'K'

Form XXII

(See Rule 78(2))

REGISTER OF ADVANCES

Name and address of contractor

Name and address of establishment in/ under which contract
is carried on

Nature and location of work

Name and address of Principal Employer

S. No.	Name of workman	Father's/ Husband's Name	Designation/ nature of employment	Wages period and wages payable	Date and amount of advance given
1.	2.	3.	4.	5.	6.

Purpose / for which advance made	No. of installments by which advance is to be paid	Date and amount of each installment repaid	Date on which last installment was repaid	Remarks
7.	8.	9.	10.	11.

**Form XXIII [See Rule
78(2) (e)] REGISTER OF
OVERTIME**

Name and address of contractor

Name and address of establishment in/ under which
contract is carried on

Nature and location of work

Name and address of Principal Employer

S. No.	Name of workman	Father's/ Husband's Name	Sex	Designation/ nature of employment	Date on which overtime worked
1.	2.	3.	4.	5.	6.

Total overtime worked or production in case of piece rated	Normal rate of wages	Overtime rate of wages	Overtime earning	Rate on which overtime wages paid	Remarks
7	8	9	10	11	12

Special terms & Conditions for Electric, Electronic, Audio Speech, Fountain, IOT/ICT related works.

- (i) Fixture must be in compliance with BIS/CE standards and T.C. Certificate complete in all respect. OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) Certificate/ report with liable warranty of product/accessories from OEM shall be submitted. All as per pre-approved by Architect/ Engineer in-charge.
- (ii) Contractor should submit minimum five year manufacturing warranty certificate from OEM for all Electrical items Surveillance system, PA & BGM System & Other electric ICT/IOT based equipment, Poles and fountain work. Contractor should hand over the copy of these certificate to JDA prior to installation of the product, so that department can take advantage for the warranty period of the items.
- (iii) Items other than the specified in Annexure-AAA at S. No. 4 or less than specified quantity in above list, can be send for testing by Engineer-in-Charge in any NABL accredited/CPRI/ERDA Lab. The details of Sample size is given at Annexure-AAA. Contractor is liable to make all necessary arrangement to send the sample & get report from lab, no extra payment shall be made to contractor for this arrangements. The testing fees/ testing charges will be reimbursed by JDA to the contractor subject to the clearance of the test by the product.
- (iv) Testing lab for above must be selected after written consent of Engineer-in-Charge.
- (v) All items including Makes & Models must be approved by Engineer-in-Charge in writing and approval letter should be enclosed in work agreement file. Routine type test certificate from OEM lab shall also be submitted by contractor at the time of makes & models approval.
- (vi) Drawing of the poles attached at annexure-AA.
- (vii) All the luminaries/ lighting fixtures should have minimum IP: 66 class protection.
- (viii) Rates for the all the items should be quoted including SITC with minimum 5 years warranty from OEM.

Sample size for testing :-

Annexure -AAA

Sr. No.	Item Name	Tests Must be done through NABL accredited/CPRI/ERDA or other approved Labs or as specified with individual item :-
1	F/T accessories (Non-Modular all switch/ socket/ regulator etc.)	01 out of 300 Nos. (Total all switch/ socket/ regulator etc.)
2	Modular accessories (all switch/ socket/ regulator etc.)	01 out of 300 Nos. (Total all switch/ socket/ regulator etc.)
3	FR PVC Flexible Copper Conductor (Total of any Size)	01 out of 5000 Mtr. (Any size as per EE required)
4	PVC Conduit (Total of all sizes)	01 out of 500 Mtr. (Total of all sizes)
5	Steel Conduit (Total of all sizes)	01 out of 500 Mtr. (Total of all sizes)
6	Sheet Steel Box/ M.S. Box/ GI Box/ PVC Box (Total of all sizes)	01 out of 200 Nos. (Total of all sizes)
7	MCB (1 Pole to 4 Pole) (Total of all amp rating)	01 out of 100 Nos. (Total of all amp rating)
8	DB (SPN to all TPN)	01 out of 20 Nos. (SPN to all TPN)
9	Panel accessories meters/ switches/relays)	OEM test certificate required.
10	ACB & MCCB	01 out of 05 Nos. ACB (OEM type test certificate also required for each quantity.) & 01 out of 25 Nos MCCB (OEM type test certificate also required for each quantity.)
11	SFU (All Types)	01 out of 10 Nos. (OEM type test certificate also required.)
12	LT/ HT Cable (Total All sizes)	01 Sample for 500 Mtr.
13	Earthing (Gel)	01 out of 10 Nos. (factory visit)
14	Ceiling Fan/ Exhaust /fresh air/ wall mounting fan. (Total All sizes)	01 out of 100 Nos. (Total All sizes)
15	Storage water heater (Geyser)	01 out of 20 Nos. (OEM test certificate required.)
16	LED Lighting fixture & accessories (Indoor & Out door	01 out of 200 (Indoor)

	Total all types)	01 out of 50 (Outdoor)
17	LAN wiring	I.O. (LAN Point) - if Min. 80 Nos. (OEM 20 year's performance warranty certificate With penta scanner report required With no extra cost.)
18	LAN Accessories	Switch – OEM / Auth. Dealer genuineness Certificate required.
19	Motor & Pumps , submersible etc.(Total all types)	01 out of 10 Nos. (OEM Certificate for every Piece)
20	Lattice tower	Factory Inspection compulsory
21	Air Conditioner	AC- 01 out of 25 Nos. (Factory visit)
22	Air cooling machine/ Chillers	Factory Inspection / III party certificate must
23	Transformer	01 out of 01 Nos. (Engineer visit compulsory at manufacturing site)
24	Fire Pump / Engine	III party inspection must.
25	Street light pole	If more then 25 , Factory Inspection / III party certificate must
26	High mast pole	Factory Inspection / III party certificate must
27	DG set	Factory Inspection / III party certificate must
28	RMU	Factory Inspection / III party certificate must
29	Bus Bar Trucking	Factory Inspection / III party certificate must
30	Solar water heater	Factory Inspection / III party certificate must

The image displays four technical drawings of street lighting poles, labeled A, B, C, and D, showing their dimensions and base plate details.

Pole A: A tall pole with a total height of 9000. The top section has a width of 1550 and a height of 2045. The pole diameter is $\varnothing 60.3$. The base plate is 300 x 16 thick, with 4 elongated holes (48 x 24) for M20 bolts at CC 215 and a cable entry hole of $\varnothing 70$. The foundation bolt is 500 high, with 2 Nos. of M20 Nut and 2 Nos. of plain washer.

Pole B: A pole with a total height of 6000. The top section has a width of 1550 and a height of 1760. The pole diameter is $\varnothing 60.3$. The base plate is 300 x 16 thick, with 4 elongated holes (48 x 24) for M20 bolts at CC 215 and a cable entry hole of $\varnothing 70$. The foundation bolt is 500 high, with 2 Nos. of M20 Nut and 2 Nos. of plain washer.

Pole C: A pole with a total height of 4260. The top section has a width of 500 and a height of 1190. The pole diameter is $\varnothing 60.3$. The base plate is 300 x 16 thick, with 4 elongated holes (48 x 24) for M20 bolts at CC 215 and a cable entry hole of $\varnothing 70$. The foundation bolt is 500 high, with 2 Nos. of M20 Nut and 2 Nos. of plain washer.

Pole D: A pole with a total height of 4260. The top section has a width of 1100 and a height of 300. The pole diameter is $\varnothing 60.3$. The base plate is 300 x 16 thick, with 4 elongated holes (48 x 24) for M20 bolts at CC 215 and a cable entry hole of $\varnothing 70$. The foundation bolt is 500 high, with 2 Nos. of M20 Nut and 2 Nos. of plain washer.

Base plate details:

- Base plate $\square 300 \times 16 \text{ thk}$
- 4 Elongated holes 48×24 to suit M20 bolts at CC 215
- Cable entry hole $\varnothing 70$
- 2 Nos. of M20 Nut
- 2 Nos. of plain washer
- Foundation bolt Qty: 4 sets / pole

Base plate details:

- Base plate $\square 250 \times 12 \text{ thk}$
- 4 Elongated holes 38×19 to suit M16 bolts at CC 180
- Cable entry hole $\varnothing 70$
- 2 Nos. of M16 Nut
- 2 Nos. of plain washer
- Foundation bolt Qty: 4 sets / pole

KEY PLAN -

* THIS DRAWING IS THE PROPERTY OF SINCERE HOUSE AND IS NOT TO BE LOANED, COPIED, REPRODUCED, OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF SINCERE HOUSE.

[illegible]

PROJECT - DESIGNING OF MAJOR JUNCTIONS FOR TRAFFIC SOLUTION AND BEAUTIFICATION WORKS IN JAIPUR

CONC. TITLE - JAWAHAR CIRCLE-
PROPOSED LIGHTING POLE DESIGN

PROJ ARCH - ARCHANA DAS	DIRECTION -
M.O.D (ARCH) - SHASHANK JAIN	
DEALT BY - RIYA	
CHK BY - ARCHANA DAS	
PRINT - 1.730(A2)	
DESIGNED BY - ANOOP BARTARIA	

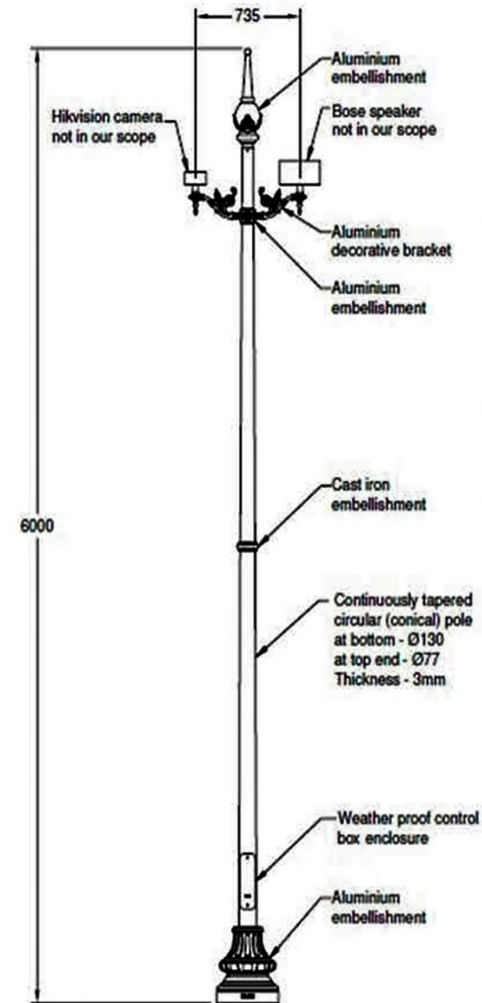
SINCERE ARCHITECTS ENGINEERS PVT. LTD.
ARCHITECTURE STRUCTURAL DESIGN INTERIORS LANDSCAPE B2C SERVICES
42, LAUGHING-HAZARD COLONY, TONG ROAD, JIAPPAI (KARAIKUDI)
PHONE: 91-944-250294, 272405. FAX: 91-944-272406
E-MAIL: sincerehous@gmail.com

ORG. NO. J/JC/UD/LP/0

ORIG. TITLE: JAWAHAR CIRCLE
PROPOSED LIGHTING POLE DESIGN

STATUS - FOR REVIEW	REV. NO - 00
------------------------	-----------------

DATE OF ISSUE:-	26/07/21
-----------------	----------



KEY PLAN:

* THIS DRAWING IS THE PROPERTY OF SINCERE HOUSE AND IS NOT TO BE USED OR REPRODUCED WITHOUT OUR PERMISSION

[illegible]

PROJECT - DESIGNING OF MAJOR JUNCTIONS FOR TRAFFIC SOLUTION AND BEAUTIFICATION WORKS IN JAIPUR

ORIG. TITLE: JAWAHAR CIRCLE-
PROPOSED LIGHTING POLE DESIGN

PROJ. ARCH. - ARCHANA DAS	DIRECTOR
---------------------------	----------

ROD (ARCH)-SHASHANK JAIN

DEALT BY: RMA	
---------------	--

CHK BY: ARCHANA DAS

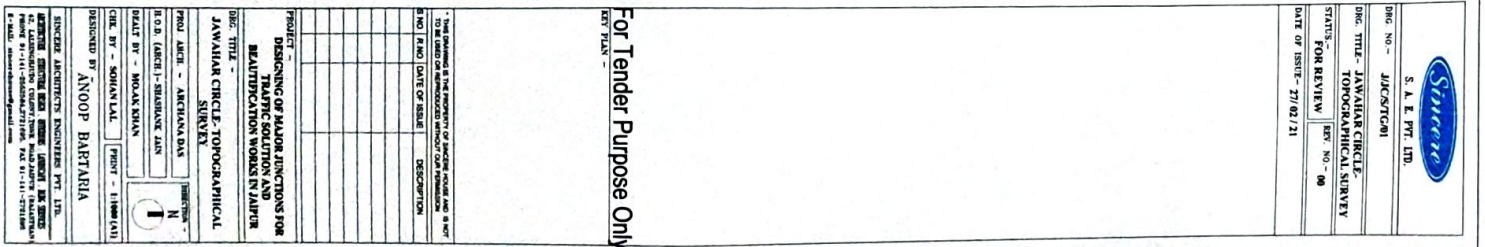
DESIGNED BY: **ANOOP BARTARIA**

SHARDE ARCHITECTS ENGINEERS INT. LTD.

ARCHITECTURE STRUCTURAL DESIGN INTERIORS LANDSCAPE BLM SERVICES

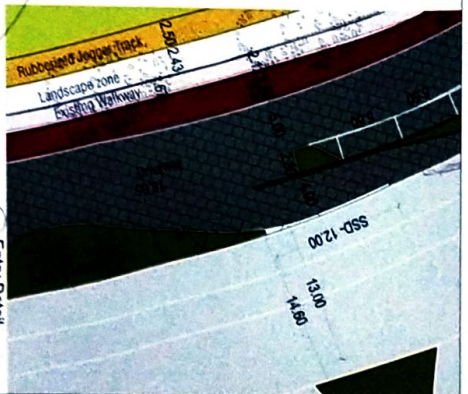
42, LALBAGHADO COLONY, 700016 JAPUR, RAJASTHAN
PHONE 91-141-252258x.2721695 FAX 91-141-2721695
E-MAIL: rajasthansales@yahoo.com

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

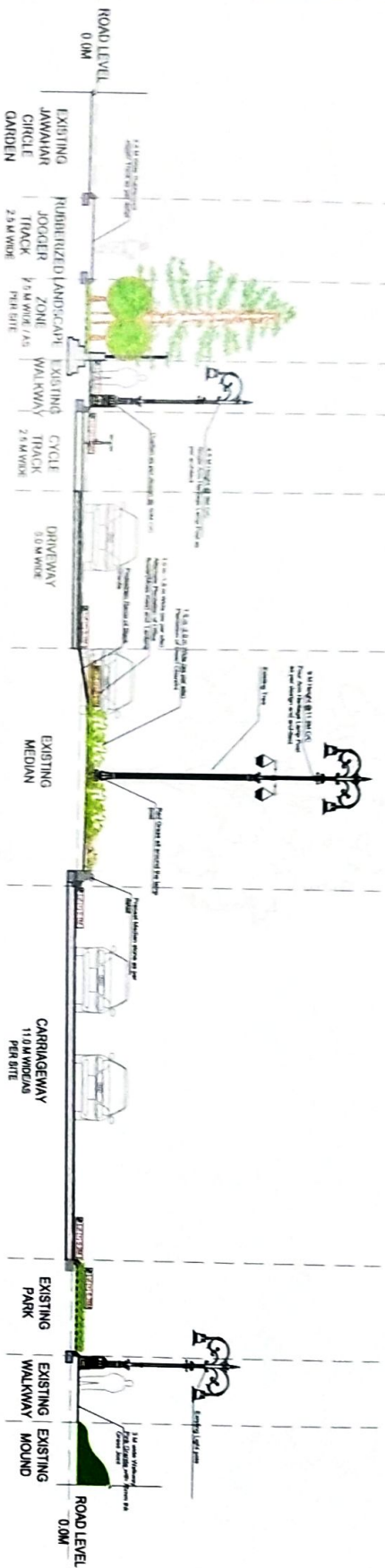


[illegible]

	
S A E PVT LTD.	
ORG NO.	JAC05AC02
ORG TITLE	JAWAHAR CIRCLE, UNDERGROUND SURVEY
STATUS	
FOR REVIEW	REV NO. 00
DATE OF ISSUE	27/02/21

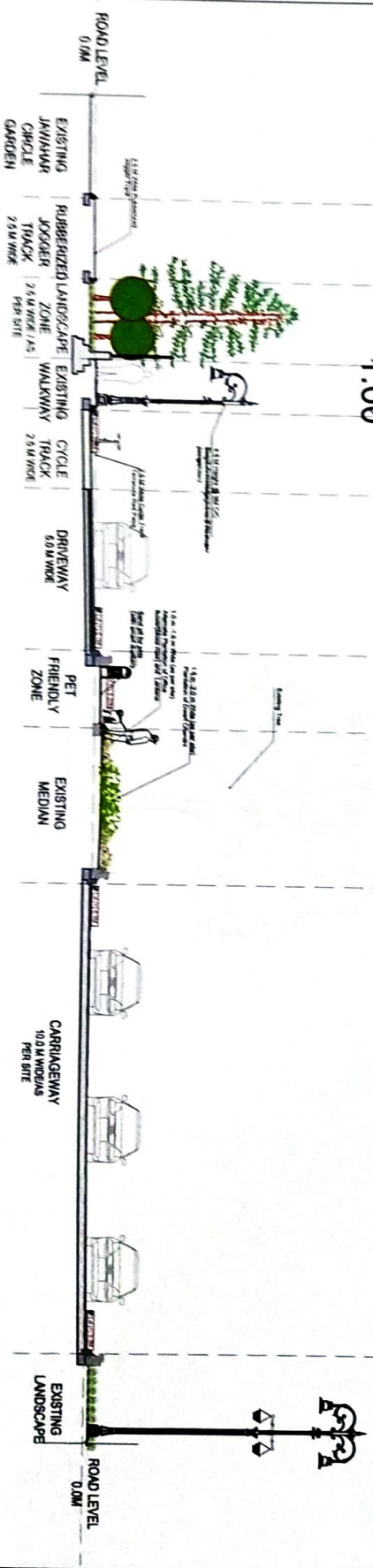
[illegible]

2.50 2.50 6.02 5.00 As per Site 12.00 (as per site) As per site 2.13



Street Section A-A'
Scale- 1:100

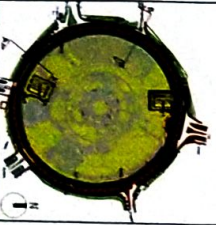
2.51 2.51 2.51 5.17 2.51 5.07 15.32



Street Section B-B'
Scale- 1:100

Shree
B & E PVT. LTD.
JAWAHAR CIRCLE
STREET SECTIONS-01
FOR REVIEW
08/09/21

NO.	REV.	DATE	DESCRIPTION



DESIGN OF MAJOR JUNCTION FOR TRAFFIC SIGNALIZATION
JAWAHAR CIRCLE
STREET SECTIONS-01

PROJECT NO. JAWAHAR CIRCLE
DRAWN BY: ANOOP BARTAKIA
CHECKED BY: ANOOP BARTAKIA
DATE: 08/09/21

ANOO ARCHITECTS
ANOO BARTAKIA
ANOO ARCHITECTS PVT. LTD.
ANOO ARCHITECTS PVT. LTD.
ANOO ARCHITECTS PVT. LTD.

6424 150 11000 200 200 5000 2500 150 230 230 230

Median stone as per design
2500 mm wide Parking for 4 wheeler
Chopped Cobble Stone on parking area (100x100/5) (NS-2)

Parking marking as per detail
5000 mm wide Driveway
Chopped Cobble Stone (100x100/5) (NS-2)

2.0 - 2.5 m Wide (as per site)
Parade of Dwarf Garden

1.0 - 1.5 m Wide (as per site)
Alternate Parade of Lantana and Moss Rose (Office Tower)

1.0 - 1.5 m Wide (as per site)
Alternate Parade of Lantana and Moss Rose (Office Tower)

Rad Grass around the Lamp post
9 M Height @ 11.2M C/C
Four Arm Heritage Lamp Post as per design (EP1)

10.5 m (as per site)
Existing Barrier Road
Existing Landscape (Mound)

Carriage Way

Existing Median

Driveway (Pattern 2)

Catch pit @ 30 m

Cycle Track

Lvl. ±0.00M

Walkway (Granite stone - Pattern 1)

Lvl. +0.15M

Lvl. +0.15M

Lvl. ±0.00M

Rubberized Jogger Track

Paving Pattern 1-
Grey Granite (NS-6), White Granite (NS-5) and Black Granite (NS-3) Stone paving of 30 mm thick



2.5 m Wide cycle track -
Tarmacoat paint on CC Road
1.8 - 1.8 m wide (as per site)
Walkway - Granite paving (Pattern 1)

2500 mm wide Rubberized Jogger track (NS-21)

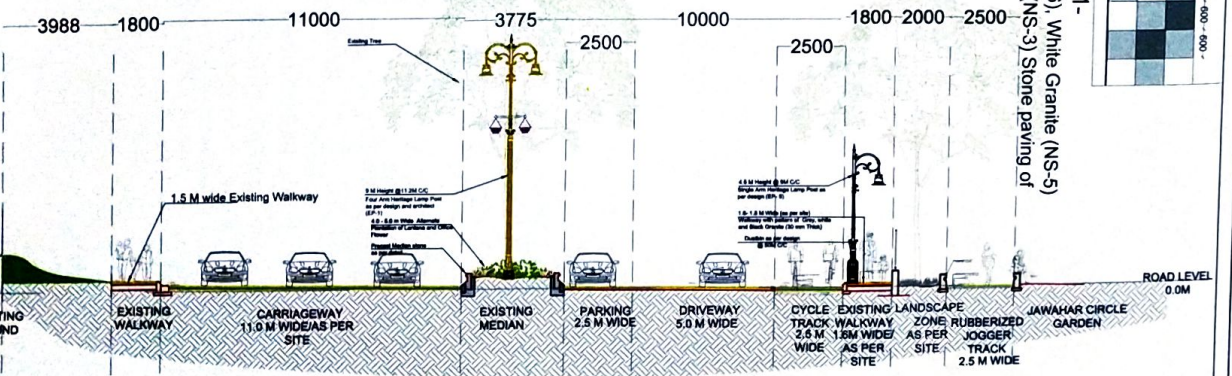
2500 mm wide
Landscape zone

220 mm thick Existing
Back wall
Jawahar Circle
Boundary Wall

SBR Base
Layer (9 mm)
100 mm thick PCC (M-15)
100 mm thick Soiling
Sub Base

Street Section X-X'
Scale-1:200

EPDM Granular top
coat (6mm thick)



S & E PVT. LTD.

DRG NO. JJC/UD/P/06

DRG TITLE: JAWAHAR CIRCLE

STATUS: TYPICAL STREET DETAIL

DATE OF ISSUE: 06/06/21

00

REVISIONS

KEY PLAN

PROJECT: DESIGN OF JAWAHAR CIRCLE FOR TRAFFIC SOLUTION AND LANDSCAPE WORKS IN JAWAHAR

DRG TITLE: JAWAHAR CIRCLE - TYPICAL STREET DETAIL

DRG NO. JJC/UD/P/06

STATUS: TYPICAL STREET DETAIL

DATE OF ISSUE: 06/06/21

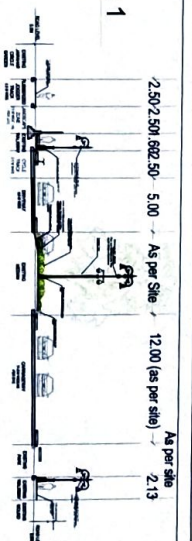
00

Typical Street Plan
Scale-1:200

Pedestrian
Subway 1



Phase 1



2.50/2.50/ 602.50- 5.00 As per Site 12.00 (as per site) 2.13

(01) Typical Section
Scale: NTS

Pedestrian
Subway 2

Pet Friendly
Station

Pet Friendly
Station

Parking

Parking

Phase 2
Inner Development

JDA STORE

Ticketing
Booth

Ticketing
Booth

Boom Barrier
with Bar Marking
(Thermoplastic paint - 6
strips of 300mm wide 5mm
high @ 600 mm apart)

Boom Barrier
with Bar Marking
(Thermoplastic paint - 6
strips of 300mm wide 5mm
high @ 600 mm apart)

Pedestrian
Subway 3

Monument
(Dwg No.-
J/C/AR/SP/08)

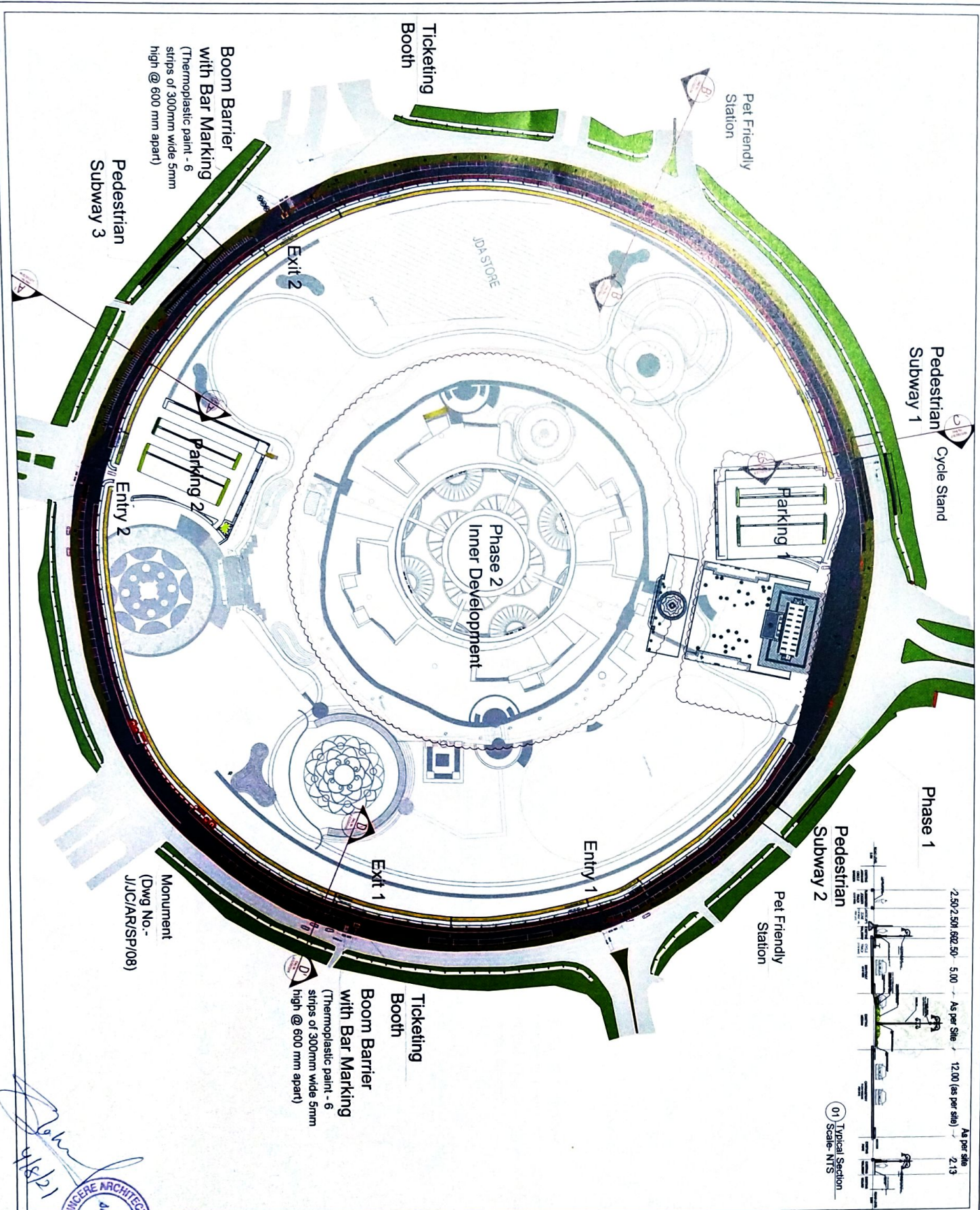
Entry 1

Exit 1

Exit 2

Entry 2

Parking 2



S.A.E. PVT. LTD.
JAWAHAR CIRCLE
STREET FURNITURE PLAN
FOR REVIEW
18/06/21

Phase 1-
Outer Ring Development
North side of Jawahar Circle-
Illumination
Elephant Fountain
Parkings

Legend

Existing Proposed Lane	Existing Proposed Lane
Jawahar Circle Outer Lane	Jawahar Circle Outer Lane
Jawahar Circle	Jawahar Circle
Jawahar Circle - Inner Lane	Jawahar Circle - Inner Lane
Proposed Cycle Track	Proposed Cycle Track
Proposed Subdivided Jogger Track	Proposed Subdivided Jogger Track
Existing Trees	Existing Trees
Trees to be cut or shaded	Trees to be cut or shaded
Area to be taken for Construction in Phase 2	Area to be taken for Construction in Phase 2
4 Arm Light pole at Median (18 m dia)	4 Arm Light pole at Median (18 m dia)
2 Arm Light pole at Outer Landscape (12 m dia) at Existing Median (18 m dia)	2 Arm Light pole at Outer Landscape (12 m dia) at Existing Median (18 m dia)
Single Arm Light pole at Existing Median (18 m dia)	Single Arm Light pole at Existing Median (18 m dia)
Median @ 25 m dia	Median @ 25 m dia

* This drawing is the property of S.A.E. PVT. LTD. and is not to be used for any other purpose without the written permission of S.A.E. PVT. LTD.

PROJECT -
DESIGNING OF MAJOR JUNCTION FOR
TRAFFIC SOLUTION AND BEAUTIFICATION
WORKS IN JAWAHAR

DATE: 18/06/21
DRAWN BY: ANOOP BARTARIA
CHECKED BY: ANOOP BARTARIA
APPROVED BY: ANOOP BARTARIA
S.A.E. PVT. LTD.

12/8/21

Jawahar Circle

Rubberized Jogger Track (NS-21)

Marble Arch as per detail

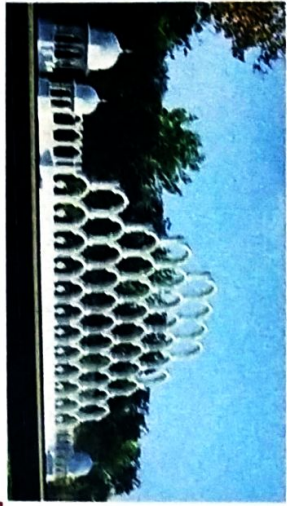
Stone Capital (NS-10)
Stone Cladding (NS-16)

Stone Railing as per detail (NS-14)

Carriage way

Fountain as per specifications
Stone Bench as per detail (NS-15)

Site Plan
Scale- 1:200



Column Capital (NS-11)
Column Pedestal (NS-11)

Column cladding 50mm thick Super White Marble (NS-12)
Small Kalash (NS-11)

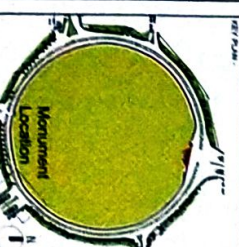
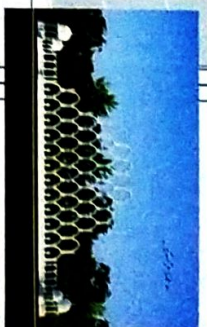
Arch cladding 50mm thick Super White Marble (NS-12)

Elevation
Scale- 1:200
40MM Thick Super White Marble Cladding (NS-13)

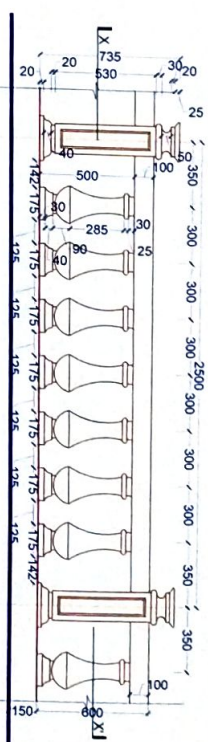
Large Kalash (NS-11)

40MM Thick Super White Marble Cladding (NS-13)

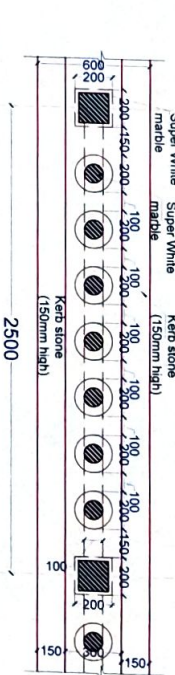
Note-
Monument stone- All work should be in Super white marble (Stone preferably form Rajasthan)



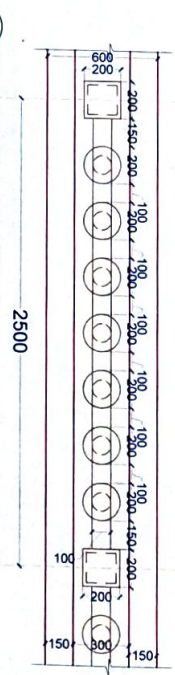
DESIGNED BY: ANOOP BARTARIA	CHECKED BY: ANOOP BARTARIA
DATE: 05/06/21	DATE: 05/06/21
SCALE: 1:200	SCALE: 1:200
PROJECT: JAWAHAR CIRCLE	PROJECT: JAWAHAR CIRCLE
CLIENT: SUREVA S A E PVT LTD	CLIENT: SUREVA S A E PVT LTD
LOCATION: JAWAHAR CIRCLE, NEW DELHI	LOCATION: JAWAHAR CIRCLE, NEW DELHI
DATE OF ISSUE: 05/06/21	DATE OF ISSUE: 05/06/21



Stone Railing (Elevation)
Scale- 1:20



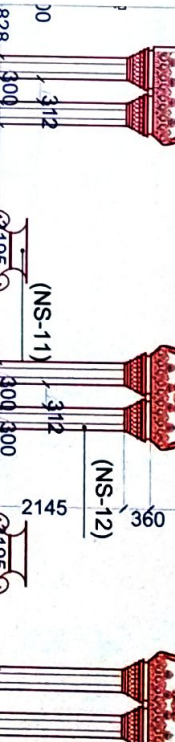
Stone Railing (Plan X-X)
Scale- 1:20



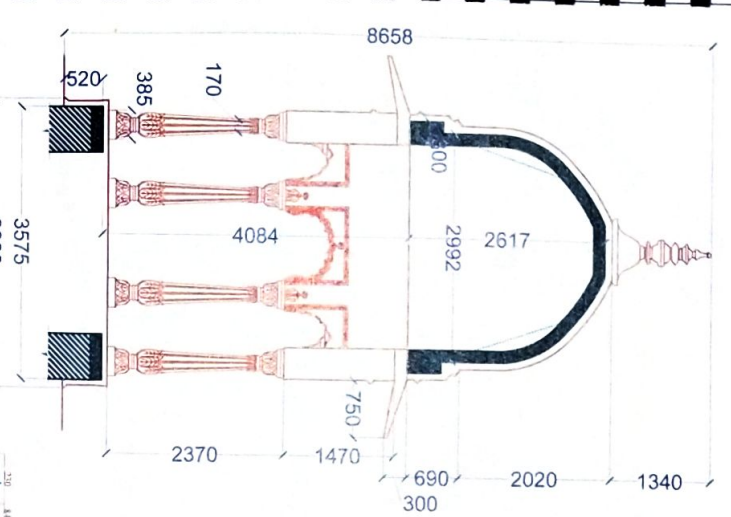
Stone Railing (Top View)
Scale- 1:20



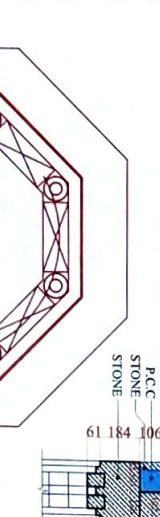
Column Pedestal
Scale- 1:20



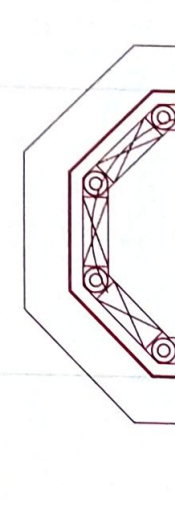
Arch Detail
Scale- 1:20



Section A-A' - Chatri 1
Scale- 1:50



Section B-B' - Chatri 2
Scale- 1:50



Plan - Chatri 1
Scale- 1:50

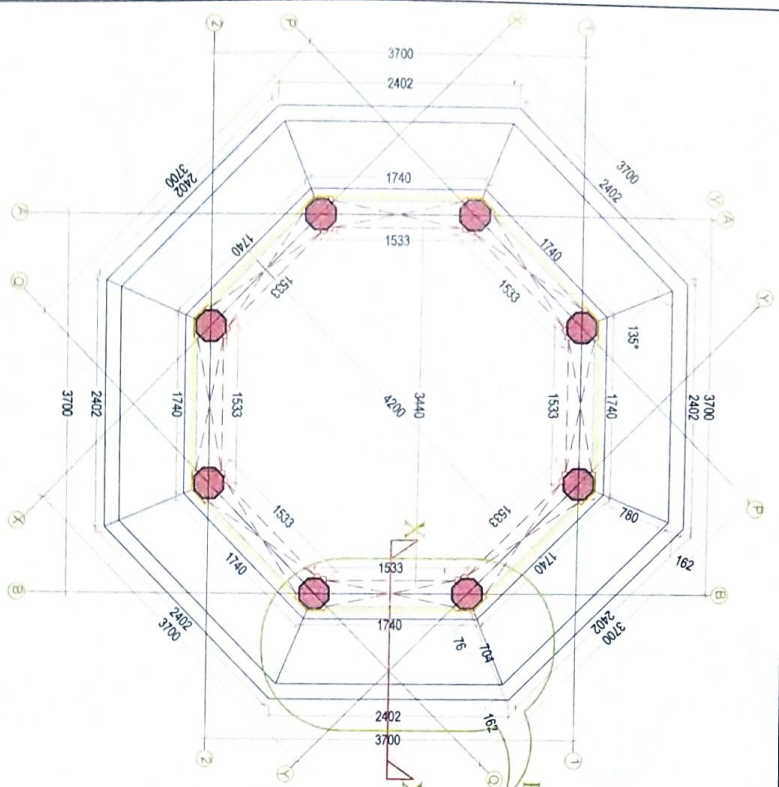


Stone Bench Detail
Scale- 1:20

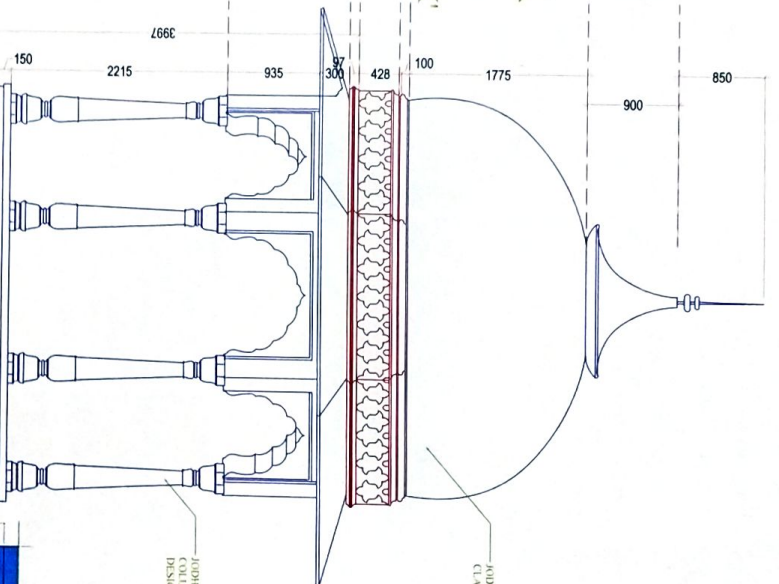
DRG NO.	JJC/ARP/09
DRG TITLE	JAWAHAR CIRCLE - PROPOSED MONUMENT - 2
STATUS	FOR REVIEW
DATE OF ISSUE	06/06/21

Note-
Monument stone-
All work should be in
Super white marble
(Stone preferably form
Rajasthan)

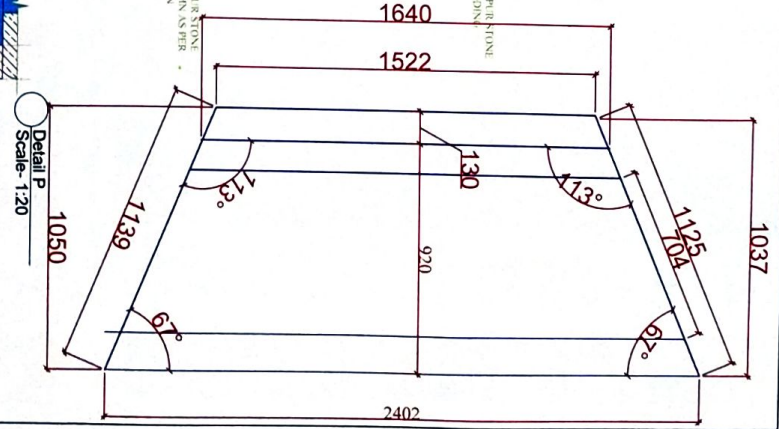
PROJECT	DESIGNING OF MAJOR JUNCTION FOR TRAFFIC SOLUTION AND RECONSTRUCTION WORKS IN RAJASTHAN
DRG TITLE	JAWAHAR CIRCLE - PROPOSED MONUMENT - CHATRI DETAIL
DRG NO.	JJC/ARP/09
DRG TITLE	JAWAHAR CIRCLE - PROPOSED MONUMENT - 2
STATUS	FOR REVIEW
DATE OF ISSUE	06/06/21



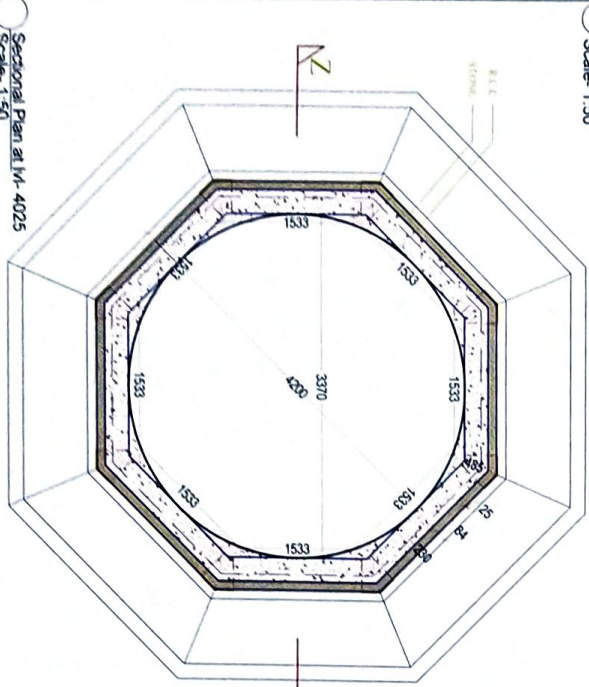
Sectional Plan at M - 750
Scale: 1:50



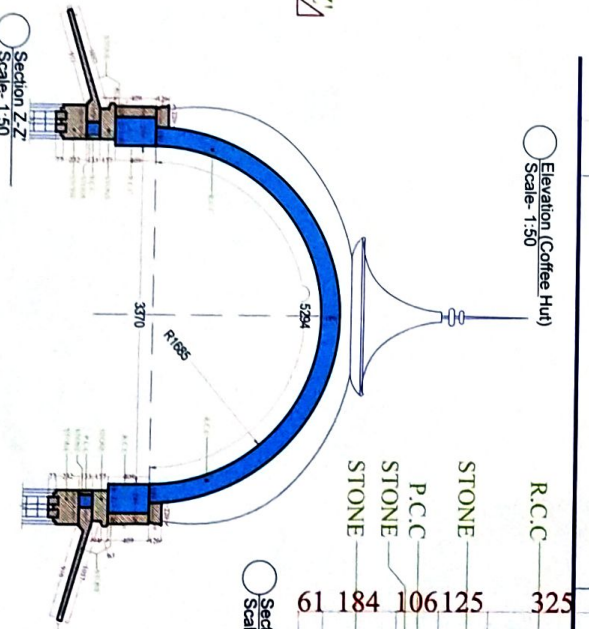
Elevation (Coffee Hut)
Scale: 1:50



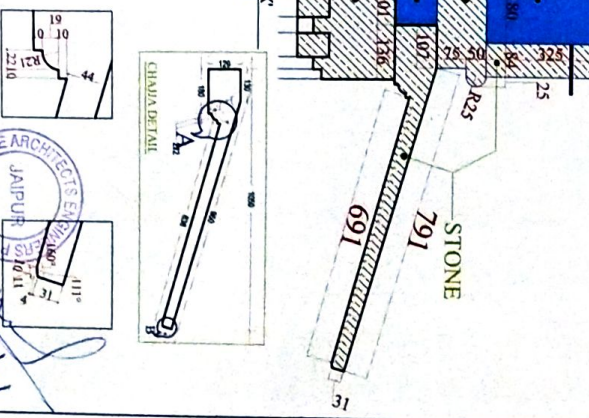
Detail P
Scale: 1:20



Sectional Plan at M - 4025
Scale: 1:50



Section X-X'
Scale: 1:20



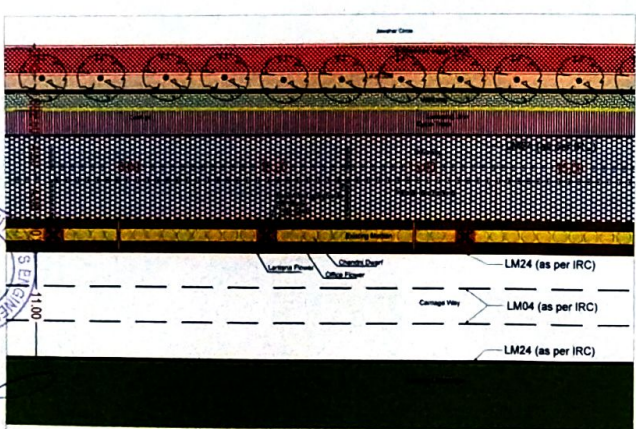
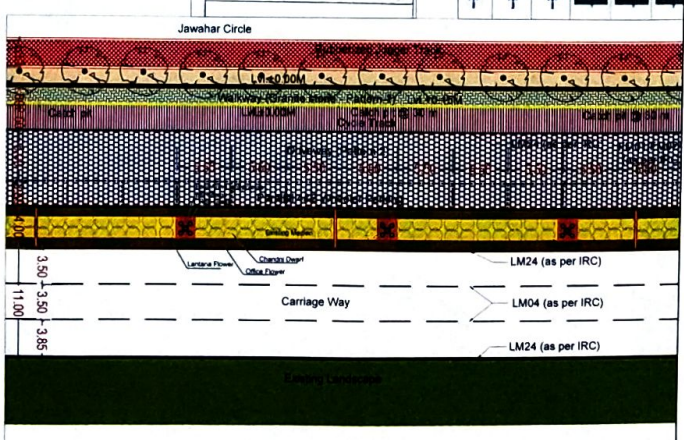
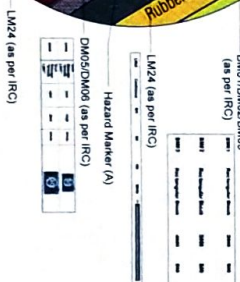
CHAIR DETAIL
Scale: 1:20

Simeon S.A.E. PVT. LTD.	
DRG. NO.: JJC/ART/K12 DRG. TITLE: JAWAHAR CIRCLE STATUS: TOOLKIT 2 FOR REVIEW: REV. NO.: 00 DATE OF ISSUE: 08/08/21	THE DRAWING IS THE PROPERTY OF SIMION ENGINEERING & ARCHITECTURE. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR COPIED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF SIMION ENGINEERING & ARCHITECTURE.
DETAILS: 1. CHAIR DETAIL 2. R.C.C. DETAIL 3. STONE DETAIL 4. JAWAHAR CIRCLE DETAIL 5. JAWAHAR CIRCLE DETAIL	Jodhpur Stone Chair NS-20 THE DRAWING IS THE PROPERTY OF SIMION ENGINEERING & ARCHITECTURE. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR COPIED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF SIMION ENGINEERING & ARCHITECTURE.
PREPARED BY: ANOOP BARTARIA CHECKED BY: ANOOP BARTARIA DATE: 08/08/21	JAWAHAR CIRCLE COFFEE HUT DETAIL JAWAHAR CIRCLE COFFEE HUT DETAIL JAWAHAR CIRCLE COFFEE HUT DETAIL

01 Proposed Road
Scale- 1:1500



Parking Marking

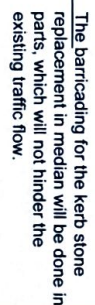


KEY POINTS

	
S. A. E. PVT. LTD.	
ORD. NO. -	JJCCTEPI/13
ORD. TITLE - JAWAHAR CIRCLE - PROPOSED ROAD MARKING PLAN	
STATUS -	
FOR REVIEW	
REV. NO. -	00
DATE OF ISSUE - 18/06/21	

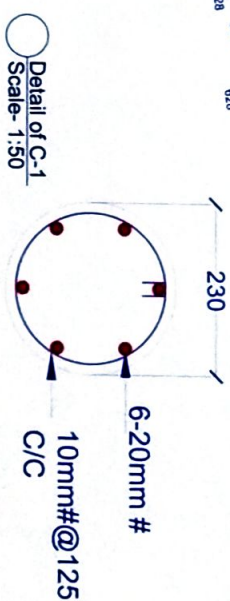
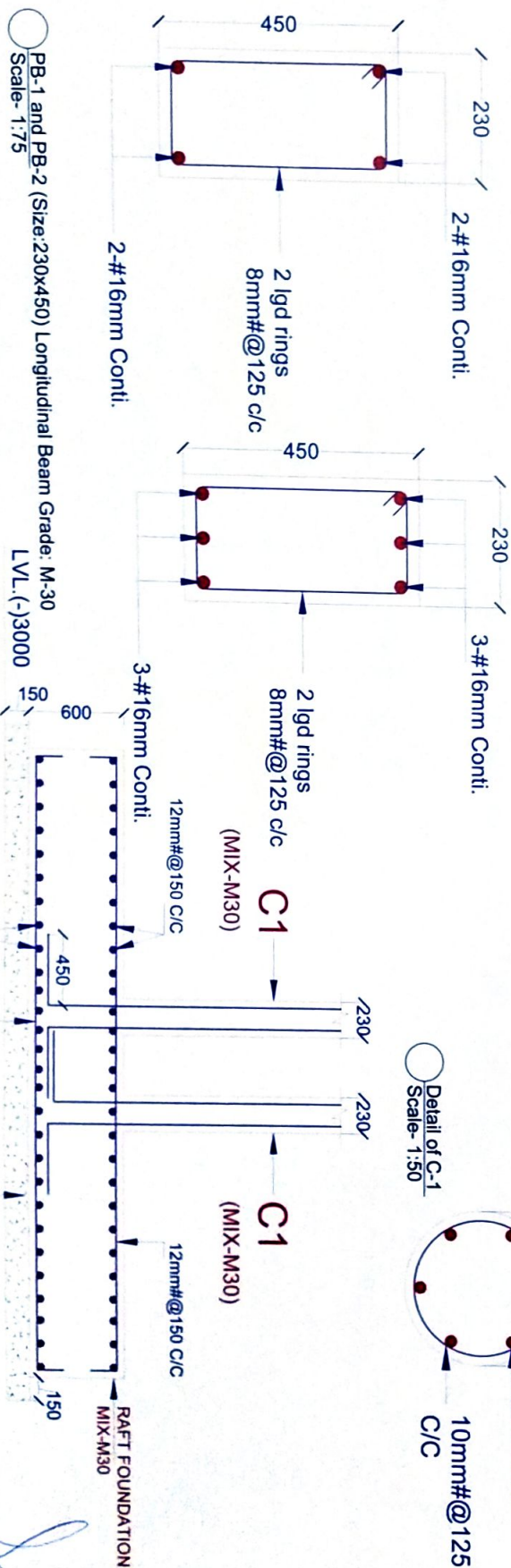
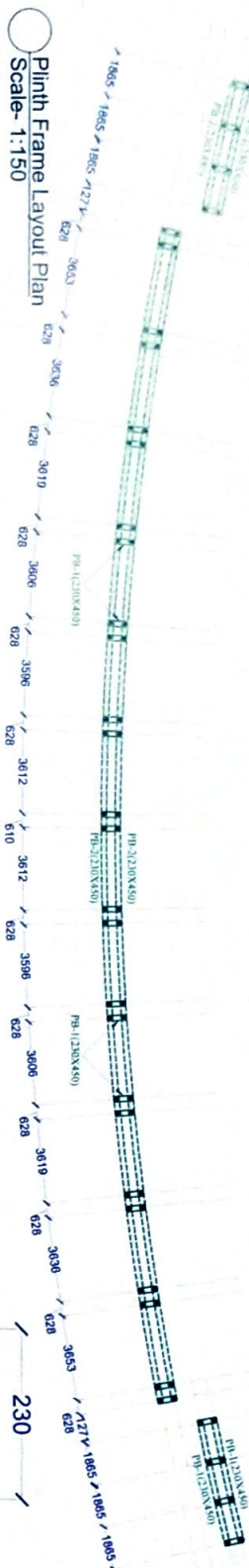
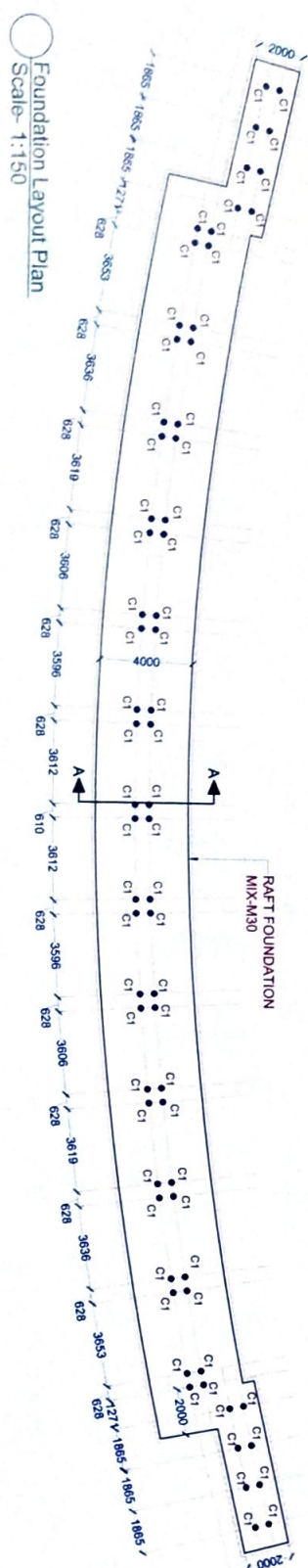
Phase 1-
Outer Ring Development
North side of Jawahar Circle
Illumination
Elephant Fountain
Parkings

[illegible]



	Wien Zone
	Roads to Veterans
	During construction of Skyway, the public will be able to travel conveniently to the stadium and the temporary headquarters for the event.
	The Skyway will give both teams and spectators a direct route to the stadium in parts, which will not hinder the existing public flow.

[illegible]



 S. A. E. PVT. LTD.	
DRAWING NO.	JUCSD/P/16
DRAWING TITLE: JAYAWANT CIRCLE. PROJECT LOCATION: INDOANAL INDUSTRIES, SECTOR-10, GATEWAY OF INDIA, NEW DELHI-110002	
STATUS FOR REVIEW	REV. NO.
DATE OF ISSUE	06/08/21

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.		
REV. NO.	DATE OF REV.	DESCRIPTION
01	08/08/21	

REV. NO.	DATE OF REV.	DESCRIPTION

NOT PLAN.



REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

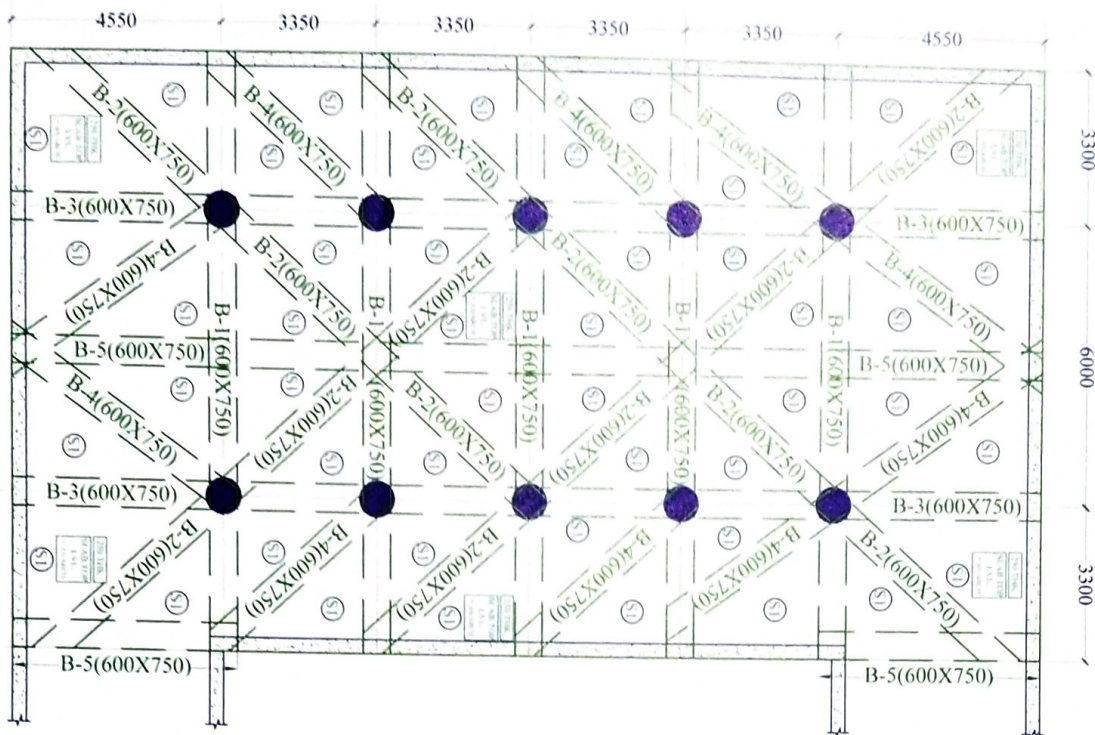
REV. NO.	DATE OF REV.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DRAWING OFFICE AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE DRAWING OFFICE.

NOT PLAN.

REV. NO.	DATE OF REV.	DESCRIPTION

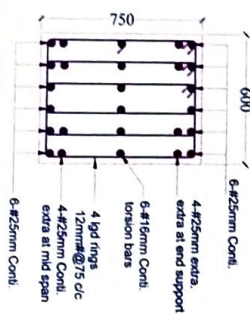
SLAB DETAILS				
S.NO.	TYPE	DEPTH	SHORT SPAN	LONG SPAN
1	S-1	250 mm	16 mm ϕ @ 100 C.C.	16 mm ϕ @ 100 C.C.
			16 mm ϕ @ 100 C.C.	16 mm ϕ @ 100 C.C.
				M35



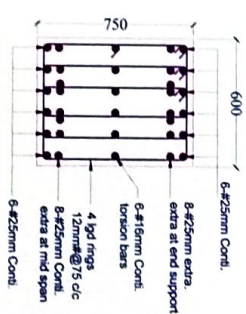
SLAB LEVEL PLAN

Slab Level Plan
Scale: 1:75

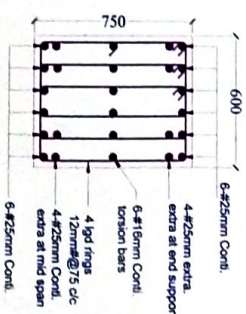
B-4 (SIZE: 600X750)
LONGITUDINAL BEAM
GRADE:-M-35



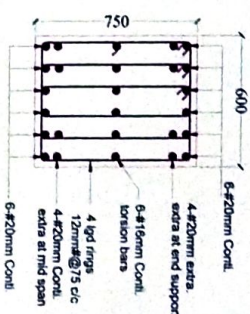
B-2 (SIZE: 600X750)
LONGITUDINAL BEAM
GRADE:-M-35



B-3 (SIZE: 600X750)
LONGITUDINAL BEAM
GRADE:-M-35



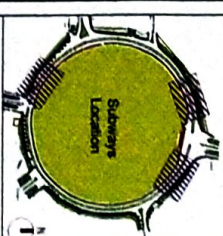
B-5 (SIZE: 600X750)
LONGITUDINAL BEAM
GRADE:-M-35



Beam Details
Scale: 1:75



S & E PVT. LTD.	
Proj. No.	JACS/P/19
Proj. Title	JAIN ARCHITECTS & ENGINEERS
Scale	1:75
DATE OF ISSUE	06/06/21



JAIN ARCHITECTS & ENGINEERS	
Proj. No.	JACS/P/19
Proj. Title	JAIN ARCHITECTS & ENGINEERS
Scale	1:75
DATE OF ISSUE	06/06/21

Percentage BoQ

Tender Inviting Authority: Jaipur Development Authority, Jaipur

Name of Work: TRAFFIC IMPROVEMENT AND BEAUTIFICATION WORKS AT JAWAHAR CIRCLE, JDA JAIPUR

Contract No:- JDA/EE (Traffic Works-I)/04/2021-22

Bidder Name :						
PRICE SCHEDULE						
Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
1.00	Earth work in excavation in foundation, trenches etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level. In all types soils/ saturated soil such as moorum, sand, sandy silt, clay, black cotton soil, kankar, etc. Depth upto 1.5 m	18219.400	CUM	169.00	3079078.60	INR Thirty Lakh Seventy Nine Thousand & Seventy Eight and Paise Sixty Only
2.00	Add extra for over all depth of excavation above 1.5 m and upto 3.0 m over item no 8	6544.550	CUM	25.50	166886.03	INR One Lakh Sixty Six Thousand Eight Hundred & Eighty Six and Paise Two Only
3.00	Add extra for over all depth of excavation above 3.0 m and upto 4.5 m over item no 8	3613.550	CUM	54.50	196938.48	INR One Lakh Ninety Six Thousand Nine Hundred & Thirty Eight and Paise Forty Eight Only
4.00	Add extra for over all depth of excavation above 4.5 m and upto 6.0 m over item no 8	2179.550	CUM	88.00	191800.40	INR One Lakh Ninety One Thousand Eight Hundred and Paise Forty Only
5.00	Scarifying existing granular road surface, including picking up scarified material and stacking of old serviceable material within a lead of 1000 meters complete as per clause 305.4.3 of MoRT&H specification including all labour, machinery, lighting, guarding and maintenance of diversion.	7712.700	SQM	20.50	158110.35	INR One Lakh Fifty Eight Thousand One Hundred & Ten and Paise Thirty Five Only
6.00	Scarifying existing bituminous road surface, including picking up scarified material and stacking of old serviceable material within a lead of 1000 meters complete as per clause 305.4.3 of MoRT&H specification including all labour, machinery, lighting, guarding and maintenance of diversion.	18962.700	SQM	20.00	379254.00	INR Three Lakh Seventy Nine Thousand Two Hundred & Fifty Four Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
7.00	Providing, laying and compacting plain/ reinforced cement concrete of specified grade in foundation/ leveling course/ pile cap using concrete mixer and vibrater complete including cost of form work, as per drawing and technical specifications and as per clause 1100, 1500,1700,2100 of MoRT&H specification including all scaffolding material, labour, machinery. PCC Grade M -15	1682.749	CUM	3840.00	6461756.16	INR Sixty Four Lakh Sixty One Thousand Seven Hundred & Fifty Six and Paise Sixteen Only
8.00	Providing, laying and compacting design mix plain/ reinforced cement concrete of specified grade in foundation/ leveling course/ pile cap using batching plant, transit mixer and concrete pump and vibrater including cost of form work, complete as per drawing and technical specifications as per clause 1100, 1500,1700,2100 of MoRT&H specification including all material, labour, machinery, and maintenance of diversion. RCC Grade M -35	2511.507	CUM	5100.00	12808685.70	INR One Crore Twenty Eight Lakh Eight Thousand Six Hundred & Eighty Five and Paise Seventy Only
9.00	Providing and laying structural reinforced/ prestressed cement concrete (design mix) of specified grade using batching plant, transit mixer, concrete pump and vibrater in superstructure at all levels including cost of steel form work complete as per clause 1500, 1600 and 1700 of MoRT&H specification including all scaffolding, material, labour, machinery etc. RCC/PSC Grade M -35-For T-beam & slab	786.948	CUM	6340.00	4989250.32	INR Forty Nine Lakh Eighty Nine Thousand Two Hundred & Fifty and Paise Thirty Two Only
10.00	Painting two coats on specified surface with synthetic enamel paint of approved brand and shade, after thorough cleaning and necessary filling to give even shade as per clause 803 of MoRT&H Specification including all material, labour. On new plastered concrete surface (Lum Sum).	500.000	SQM	83.00	41500.00	INR Forty One Thousand Five Hundred Only
10.10	On steel surface (Lum sum)	500.000	SQM	66.50	33250.00	INR Thirty Three Thousand Two Hundred & Fifty Only
11.00	Providing and laying TMT bar reinforcement at any level in foundation/ pile/ pile cap complete as per drawing and clause 1600 of MoRT&H Specification including all material, labour and machinery.	307.200	tonne	64600.00	19845120.00	INR One Crore Ninety Eight Lakh Forty Five Thousand One Hundred & Twenty Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
12.00	Providing, fixing, maintaining, shifting & refixing, barricading of minimum 2.0 mtr height at stipulated active site of the same project site, made with angle iron frame of 50x50x5mm and GI sheet of 0.63mm thick including primer painted initially, painting, lettering & border with reflective paint at the time of every shifting, traffic diversion arrangement, safety guard, suitable lightning arrangement during night, complete in all respect till completion of the project as per technical specification and direction of Engineer-In-charge and same shall be possessed by the contractor after completion of the Project. Payment under this item will be released (1) 50% At the time of Providing new barricading at the time of start of project at location and plan as approved by the Engineer & certification (2) 50% After completion of project including shifting re-erecting and maintaining the barricading in position, during entire construction tenure with requisite manpower /flagman etc. complete for guiding traffic and safety etc and dismantling after completion of project.	1900.000	SQM	2650.00	5035000.00	INR Fifty Lakh Thirty Five Thousand Only
13.00	Brick work with FPS bricks of class designation 75 in superstructure above plinth level upto two stories in all shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand)	245.150	CUM	4090.00	1002663.50	INR Ten Lakh Two Thousand Six Hundred & Sixty Three and Paise Fifty Only
14.00	Half brick masonry with FPS bricks of class designation 75 in superstructure above plinth level upto two stories: Cement mortar 1:3 (1 cement :3 coarse sand)	500.000	SQM	480.00	240000.00	INR Two Lakh Forty Thousand Only
15.00	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	39780.000	KG	88.50	3520530.00	INR Thirty Five Lakh Twenty Thousand Five Hundred & Thirty Only
16.00	Random rubble dry stone Kharanja (soling) under floor.	607.500	CUM	1007.00	611752.50	INR Six Lakh Eleven Thousand Seven Hundred & Fifty Two and Paise Fifty Only
17.00	Cement plastering including T&P, scaffolding, material and complete labpour, including cost of water, curing, racking of joints etc. with 20 mm cement plaster of mix : 1:4 (1 cement : 4 fine/ coarse sand)	2298.650	SQM	190.00	436743.50	INR Four Lakh Thirty Six Thousand Seven Hundred & Forty Three and Paise Fifty Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
18.00	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work	2298.650	SQM	69.00	158606.85	INR One Lakh Fifty Eight Thousand Six Hundred & Six and Paise Eighty Five Only
19.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work. 100mm nominal inner dia .Pipes.	234.000	Metre	1890.00	442260.00	INR Four Lakh Forty Two Thousand Two Hundred & Sixty Only
20.00	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of (i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the levelling course (levelling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.	4241.858	SQM	755.00	3202602.79	INR Thirty Two Lakh Two Thousand Six Hundred & Two and Paise Seventy Nine Only
21.00	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :	3337.958	SQM	947.00	3161046.23	INR Thirty One Lakh Sixty One Thousand & Forty Six and Paise Twenty Three Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
22.00	Gravel/Soil Aggregate Base/Sub-base Nominal Maximum size Grading 80 mm (Table 2.3 of IRC SP 77-2008) Construction of Gravel / Soil Aggregate Sub-base/Base by providing well graded material of nominal maximum size grading 80 mm as per Table 2.3 of IRC SP 77-2008, spreading in uniform layers with tractor mount appropriate grading arrangements on prepared surface, mixing by mix in place method at OMC with tractor mount appropriate rotavator attachment and compaction with three wheel 80-100 KN Static Roller capacity to achieve the desired density complete as per specifications contained in Para 2.2, 3.6 and 3.7 of IRC SP 77-2008	613.940	Cum	531.00	326002.14	INR Three Lakh Twenty Six Thousand &Two and Paise Fourteen Only
23.00	Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and MoRD Specification Clause 406. By Mechanical Means with 1 km lead	679.925	Cum	1071.00	728199.68	INR Seven Lakh Twenty Eight Thousand One Hundred & Ninety Nine and Paise Sixty Seven Only
24.00	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRD Specification Clause 502	4819.700	Sqm	31.50	151820.55	INR One Lakh Fifty One Thousand Eight Hundred & Twenty and Paise Fifty Five Only
25.00	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per MoRD Specification Clause 503.	5669.700	Sqm	9.00	51027.30	INR Fifty One Thousand &Twenty Seven and Paise Thirty Only
26.00	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleanedwith Hydraulic broom as per MoRD Specification Clause 503.	4819.700	Sqm	10.80	52052.76	INR Fifty Two Thousand &Fifty Two and Paise Seventy Six Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
27.00	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tones per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 to 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H Specifications Clause 507 complete in all respects. for Grading II (19 mm nominal size)	549.446	MT	2722.50	1495866.74	INR Fourteen Lakh Ninety Five Thousand Eight Hundred & Sixty Six and Paise Seventy Four Only
28.00	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT & H Specifications Clause 509 complete in all respects for Grading-II (13 mm nominal size) Bitumen (VG-30)	521.612	MT	2934.00	1530409.61	INR Fifteen Lakh Thirty Thousand Four Hundred & Nine and Paise Sixty One Only
29.00	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a lead of 1000 mtrs and earth filling in the depression/pit to required compaction as per MoRT&H specification clause 201. (Measurment of girth to be done at height of 1 m above ground level) Girth from 300 mm to 600 mm	10.000	Nos.	938.00	9380.00	INR Nine Thousand Three Hundred & Eighty Only
30.00	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to a lead of 50 metres from road boundary including removal and disposal of top organic soil not exceeding 150 mm in thickness as directed by Engineer. In area of light jungle	10.680	Hectare	51200.00	546816.00	INR Five Lakh Forty Six Thousand Eight Hundred & Sixteen Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
31.00	Dismantling of existing LT/HTelectric lines including poles/towers, ACSR conductors, guard wires, stay wire, insulators and other electrical items of the pole coming along the alignment of the road or in the plant premises and removal and transportation as well as disposal of all the items as per the direction of engineerincharge. (Serviceable material or can-dum material.) Dismantling of 11KVRail/cement Pole /joist/(RSJ - 9 or 10 mtr height with earth wire and brackets, tophamper, chakri, V-Cross arms guard bracket, stay, insulators (pin / disc) etc.	85.000	Each	1700.00	144500.00	INR One Lakh Forty Four Thousand Five Hundred Only
31.10	Dismantling of LT line pole (PCC - 8/9 mtr height) single phase/3 phase & 5 wires bracket, top hamper, insulators(pin or disc) earthwire and conductors.	32.000	Each	800.00	25600.00	INR Twenty Five Thousand Six Hundred Only
32.00	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 50 metres as directed by Engineer. Steel work in all type sections up to a height of 5 metre above plinth level (Riveted work where rivet are required to be cut shall be measured and paid separately) Including dismembering	10.480	tonne	1420.00	14881.60	INR Fourteen Thousand Eight Hundred & Eighty One and Paise Sixty Only
33.00	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unservice able material within 50 metres lead as per direction of Engineer-incharge. In cement mortar	8.798	CUM	608.00	5349.18	INR Five Thousand Three Hundred & Forty Nine and Paise Eighteen Only
34.00	Centring and shuttering upto two stories or height upto 7.5 metre above plinth level including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers.	819.713	SQM	299.00	245094.19	INR Two Lakh Forty Five Thousand & Ninety Four and Paise Nineteen Only
35.00	Centring and shuttering upto two stories or height upto 7.5 metre above plinth level including strutting, propping etc. and removal of form forColumns, Pillars, Piers, Abutments, Posts and Struts	851.302	SQM	385.00	327751.27	INR Three Lakh Twenty Seven Thousand Seven Hundred & Fifty One and Paise Twenty Seven Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
36.00	Add extra for doing centering and shutteriing work for every additional height of 1 metre or part thereof beyond initial 7.5 met reheight from plinth level.	293.040	SQM	5.00	1465.20	INR One Thousand Four Hundred & Sixty Five and Paise Twenty Only
37.00	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto two stories excluding the cost of centring, shuttering, finishing and reinforcement: M-30 Grade Concrete	131.964	CUM	5410.00	713925.24	INR Seven Lakh Thirteen Thousand Nine Hundred & Twenty Five and Paise Twenty Four Only
38.00	Reinforcement for R.C.C. work at all levels including straightening, cutting, bending, placing in position and binding all complete.Thermo-mechanically Treated bars (Conforming of relevent IS code)	83235.000	Kg.	64.50	5368657.50	INR Fifty Three Lakh Sixty Eight Thousand Six Hundred & Fifty Seven and Paise Fifty Only
39.00	Providing and laying structural plain/ reinforced cement concrete (design mix) of specified grade in substructure at all levels using batching plant, transit mixer, concrete pump and vibrater including cost of form work complete as per drawing and clause 1500, 1700 and 2200 of MoRT&H specification including all scaffolding, material, labour, machinery etc. RCC Grade M -30	41.018	CUM	5480.00	224778.64	INR Two Lakh Twenty Four Thousand Seven Hundred & Seventy Eight and Paise Sixty Four Only
40.00	Dismantling kerb stone by manual means and disposal ofdismantled material with all lifts and up to a lead of 1000 metre asper MoRT&H specification clause 202.	15000.000	MTR.	9.50	142500.00	INR One Lakh Forty Two Thousand Five Hundred Only
41.00	Providing and laying un-reinforced, dowel jointed, plain cement concrete mix in pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades complete as per drawing and as per clause 602, 112 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.M-30	725.000	Cum	6100.00	4422500.00	INR Forty Four Lakh Twenty Two Thousand Five Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
42.00	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, leveland curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) including making joints with without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete including painting etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineerin- charge).	600.000	CUM	4104.00	2462400.00	INR Twenty Four Lakh Sixty Two Thousand Four Hundred Only
43.00	Providing and fixing of reinforced Ferro-Cement drain covers designed for 'AA' class loading duly marked on cover with adequate steel reinforcement having thickness 75mm to 150mm anti corrosive bitumen painted M.S. plate , Rim and M.S. lifting hooks, Admixtures like plasticizer, bond improving compound, shrinkage, resistance compound, abrasion resistant complete as per approved design etc. Standard Size 1500x600mm (125mm thick) for span 701 to 1200mm	171.000	SQM	1500.00	256500.00	INR Two Lakh Fifty Six Thousand Five Hundred Only
44.00	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level : 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	217.500	CUM	4860.00	1057050.00	INR Ten Lakh Fifty Seven Thousand & Fifty Only
45.00	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.1: 3: 6 or richer mix.	240.000	CUM	397.80	95472.00	INR Ninety Five Thousand Four Hundred & Seventy Two Only
46.00	Providing and laying marking of center line and stop line etc with hot thermoplastic compound 2.5 mm thick on road/ plain surface, including reflectorising glass beads @ 250 gms per sqm area with special applicator machine, as per IRC:35 including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control involved. The finished surface to be level, uniform and free from streaks and holes as per clause 803 of MoRT&H Specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	2925.000	SQM	803.00	2348775.00	INR Twenty Three Lakh Forty Eight Thousand Seven Hundred & Seventy Five Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
47.00	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 3 metre long and size 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including all material, labour. 60 cm equilateral triangle	12.000	EACH	2770.00	33240.00	INR Thirty Three Thousand Two Hundred & Forty Only
47.10	60 cm circular	10.000	EACH	3660.00	36600.00	INR Thirty Six Thousand Six Hundred Only
47.20	60 cm x 45 cm rectangular	20.000	EACH	3570.00	71400.00	INR Seventy One Thousand Four Hundred Only
48.00	Providing and erecting direction and place identification retro- reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick framed to angle iron 40x40x5mm with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing including all material, labour. Identification sign board of size upto 0.90 sqm (Rectangle Signage)	11.083	SQM.	9010.00	99857.83	INR Ninety Nine Thousand Eight Hundred & Fifty Seven and Paise Eighty Three Only
49.00	Providing and erecting direction and place identification retro- reflectorised sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting 2 mm thick framed to angle iron 40x40x5mm with area exceeding 0.9 sqm supported on two nos mild steel angle iron post 75 mm x 75 mm x 6 mm, firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including all material, labour. Identification sign board of size above 0.90 sqm (Rectangle Signage)	53.557	SQM.	9650.00	516825.05	INR Five Lakh Sixteen Thousand Eight Hundred & Twenty Five and Paise Five Only
50.00	Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80-100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming to IRC-79 and the drawings.	35.000	EACH	1080.00	37800.00	INR Thirty Seven Thousand Eight Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
51.00	Supplying and fixing of Single Molded twin Shank Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35+/-5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 700 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. (manufactured from 3M, Avery or equivalent)	622.000	EACH	183.00	113826.00	INR One Lakh Thirteen Thousand Eight Hundred & Twenty Six Only
52.00	Providing & Fixing of median marker made of tough high impact resistance injection moulded thermo plastic body with an isosceles trapezoidal structure of length, height & width not less than 12cm, 10cm respectively and thickness not less than 1.8mm. The median marker shall have flourescent yellow colour retro reflective sheeting of size not less than 8.5cm X 8.5cm and with fully reflective micro prismatic as its retro reflective elements and meet ASTM D4956-09 Type XI specification. The retro reflective sheeting shall be on both the sides of the median marker and shall be as protected with no exposed edges that prevent edge lifting, vandalism, sheeting damage etc. The median marker shall be fixed with a combination of epoxy adhesive and grouting etc. complete as directed by the Engineer -In-Charge. (manufactured from 3M or equivalent)	300.000	EACH	338.00	101400.00	INR One Lakh One Thousand Four Hundred Only
53.00	Grassing with 'Carpet' grass (selection no. 1) including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for moving including supplying good earth if needed.(The good earth shall be paid separately).With grass Turf	2150.000	SQM.	560.00	1204000.00	INR Twelve Lakh Four Thousand Only
54.00	Supply of dry manure including loading unloading, transportation & stacking at site. Fram yard manure (organic).	643.161	Cum	380.00	244401.18	INR Two Lakh Forty Four Thousand Four Hundred & One and Paise Eighteen Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
55.00	Supply of Chemical Fertilizers at store in bags weighing not less than 50 kg. each including loading unloading & transporation etc. DAP	1.000	Per 50 kg Bag	902.50	902.50	INR Nine Hundred & Two and Paise Fifty Only
55.10	Murrate of Photash	1.000	Per 50 kg Bag	427.50	427.50	INR Four Hundred & Twenty Seven and Paise Fifty Only
56.00	Supply and planting following in poly bags / earthen pots well branched, well established & free from disease of 300 mm min. height ground covers at site in 0.3 m dia holes, 0.3 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, backfilling the hole watering etc as required. Lantana sellowiana	480.000	SQM	129.00	61920.00	INR Sixty One Thousand Nine Hundred & Twenty Only
57.00	Tabernaemontana variegated (Chandni) 900mm height in poly bags / earthen pots	7142.000	Each	347.00	2478274.00	INR Twenty Four Lakh Seventy Eight Thousand Two Hundred & Seventy Four Only
58.00	Supply and Stacking good earth at site complete including loading unloading and transporation etc. Green Area	1938.453	Cum	142.50	276229.55	INR Two Lakh Seventy Six Thousand Two Hundred & Twenty Nine and Paise Fifty Five Only
59.00	Supply of different varieties of Rose plants in polyetlene bags / earthen pots according to height. growth & age of the plant at site including loading, unloading & transportation etc. complete : Desi Rose / Root stock Plants / Ganganagri.	50.000	Each	38.00	1900.00	INR One Thousand Nine Hundred Only
60.00	Supply & Plantation of shrubs including mortality replacement, loading - unloading transportation and maintenance for 30 days after planting the plants. Red Fountain grass 2'-3'	108.000	Each	40.00	4320.00	INR Four Thousand Three Hundred & Twenty Only
61.00	P & Laying XLPE insulated IS:7098/II/85 of approved make H.T.cable for working voltage 11 K.V.Earthed direct in ground including excavation of 30cmx100cm size trench, 25cm layer of river sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection testing etc.as required of size. 3 core 185.0 Sq.mm	500.000	Mtr	1280.00	640000.00	INR Six Lakh Forty Thousand Only
62.00	Providing & making heat shrinkable type indoor/outdoor/straight through terminations/joint kit of approved make suitable for XLPE insulated 11 KV cable, with required components, prepration of cable ends,testing etc. as required of following sizes . Straight Through, 3 core 120/150/185/225 Sq.mm	10.000	Set	8160.00	81600.00	INR Eighty One Thousand Six Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
63.00	Providing and laying under ground cable IS:7098 Part-II as per JVVNL specifications enclosed and of approved make suitable for working voltage upto and including 33 KV in aluminium conductors XLPE armoured category-I including excavation of 30cm x 150cm size trench as per IS:1255, 24cm thick under layer, refill earth in the remaining portion, making necessary connections including testing etc. as required of size given below and providing & making heat shrinkable type indoor/outdoor/straight through terminations for 33 KV XLPE cables with required components. Preparation of cable ends, testing etc. as required. laying of cables; 3 core 300.0 Sq.mm	1200.000	Mtr	2560.00	3072000.00	INR Thirty Lakh Seventy Two Thousand Only
63.10	Straight through Jointing; 3 core 240/300/400 Sq.mm	30.000	Set	22400.00	672000.00	INR Six Lakh Seventy Two Thousand Only
64.00	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. 2 x 2.5 Sq.mm+1 x 1.5 Sq.mm Complete Rate Group 1	6526.000	Mtr.	48.00	313248.00	INR Three Lakh Thirteen Thousand Two Hundred & Forty Eight Only
65.00	P & F in position frame made out of M.S. angle (riveted or welded) finished with two coats of red oxide and enamel paint including cutting, welding, holes etc.of following sizes as required. 50mm x 50mm x 6mm Complete Rate Group 1	230.000	Mtr.	299.00	68770.00	INR Sixty Eight Thousand Seven Hundred & Seventy Only
66.00	Bakelite sheet, 6.4 mm thick	14.000	Sq.m	851.00	11914.00	INR Eleven Thousand Nine Hundred & Fourteen Only
67.00	P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections, testing etc. as required. Single pole MCB, 6 A to 32 A rating Complete Rate Group 1.	1602.000	Each	233.00	373266.00	INR Three Lakh Seventy Three Thousand Two Hundred & Sixty Six Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
68.00	SITC of wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet , required hardware ,duly treated for derusting in 7 tank process with dephosphating and with powder coating on both side of panel in desired shade The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. base channel ,hinged door with locking arrangement for equipment/ switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required . Side walls and cable alley compartments having bolted type doors with / without detachable extension type structure. (only outer area on all sides shall be measured & panel to be fabricated from CPRI approved fabricator) Complete Rate Group 1	230.000	Sqm	2560.00	588800.00	INR Five Lakh Eighty Eight Thousand Eight Hundred Only
69.00	Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves. Electrolytic grade Aluminium bus bar Complete Rate Group 1	50.000	Kg	350.00	17500.00	INR Seventeen Thousand Five Hundred Only
70.00	SF of 110/220 V, LED (22.5 mm dia) Indicating lamp with integral circuit, terminal block, including connection etc. as required. Red/yellow/Green colour Complete Rate Group 1	30.000	Each	150.00	4500.00	INR Four Thousand Five Hundred Only
71.00	P&F of mechanical / digital time switch having following day / week programme and minimum 100 hours reserve and AC1 rating of 16-20 amperes including making connection, programming etc. as required One day & week reserve (digital type) Complete Rate Group 1	10.000	Each	5750.00	57500.00	INR Fifty Seven Thousand Five Hundred Only
72.00	S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as required. 32 mm	800.000	Rmt	44.00	35200.00	INR Thirty Five Thousand Two Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
73.00	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,Ind class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. 10.0 Sq.mm 2 core Complete Rate Armoured.	16020.000	Mtr.	136.00	2178720.00	INR Twenty One Lakh Seventy Eight Thousand Seven Hundred & Twenty Only
73.10	16.0 Sq.mm 4 core Complete Rate Armoured	15000.000	Mtr.	175.00	2625000.00	INR Twenty Six Lakh Twenty Five Thousand Only
73.20	25.0 Sq.mm 3.5 core Complete Rate Armoured	1000.000	Mtr.	209.00	209000.00	INR Two Lakh Nine Thousand Only
74.00	Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. 2 x 10.0 sq.mm.	360.000	Set	55.00	19800.00	INR Nineteen Thousand Eight Hundred Only
74.10	3.5 x 25.0 sq.mm	20.000	Set	114.00	2280.00	INR Two Thousand Two Hundred & Eighty Only
74.20	4 x 16.0 sq.mm	120.000	Set	108.00	12960.00	INR Twelve Thousand Nine Hundred & Sixty Only
75.00	Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty Copper lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size. 2 x 10.0 sq.mm.	30.000	Set	60.00	1800.00	INR One Thousand Eight Hundred Only
75.10	3.5 x 25.0 sq.mm	10.000	Set	144.00	1440.00	INR One Thousand Four Hundred & Forty Only
75.20	4 x 16.0 sq.mm	15.000	Set	126.00	1890.00	INR One Thousand Eight Hundred & Ninety Only
76.00	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 25mm x 5mm copper strip	400.000	Mtr.	714.00	285600.00	INR Two Lakh Eighty Five Thousand Six Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
77.00	Maintenance free Gel Earthing with Pipe in pipe / Pipe in strip technology filled with anti corrosive conductive compound (CPRI Tested) below the ground in 150 - 200 mm dia. earth pit & surrounding filled with required mineral filling compound (MFC should have hygroscopic property to retain the moisture for long time to create low resistance zone) and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete testing of earth resistance as required. of following sizes. With Pipe in Pipe Technology (Inner pipe dia. / Outer pipe dia.) 80 - 100 micron GI Coating; GI pipe 3000 mm long, 80 / 40 mm, Terminal 14 mm GI Strip.	80.000	Set	13450.00	1076000.00	INR Ten Lakh Seventy Six Thousand Only
78.00	P & F of ac operated heavy duty 230 /440 Volt power contactor conforming to IS:13947-4-1/IEC:947-4-1 having provision of mechanical interlocking, auxiliary contacts, Din rail mounting type including making connections, testing etc. as required. 4 pole Power contactors with following AC 1 Rating; 100 Amp	10.000	Each	4595.20	45952.00	INR Forty Five Thousand Nine Hundred & Fifty Two Only
79.00	SITC of quick make and quick break 3 pole current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip , earth fault trip, push (test) to trip, including making connections with lugs & spreaders, etc. as required. With Thermal Magnetic release; up to 100 Amp , 25 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu.	120.000	Each	3825.60	459072.00	INR Four Lakh Fifty Nine Thousand & Seventy Two Only
80.00	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault trip, push (test) to trip , including making connections with lugs & spreaders, etc. as required. With Thermal Magnetic release; up to 100 Amp; up to 100 Amp , 25 kA, adjustable O/L & fixed S/C setting, Ics = 100 % Icu	10.000	Each	5072.80	50728.00	INR Fifty Thousand Seven Hundred & Twenty Eight Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
81.00	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with Copper conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,Ind class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. 10.0 Sq.mm 2 core Complete Rate Armoured.	500.000	Mtr.	281.60	140800.00	INR One Lakh Forty Thousand Eight Hundred Only
81.10	16.0 Sq.mm 4 core Complete Rate Armoured	350.000	Mtr.	603.20	211120.00	INR Two Lakh Eleven Thousand One Hundred & Twenty Only
81.20	25.0 Sq.mm 4 core Complete Rate Armoured	300.000	Mtr.	921.60	276480.00	INR Two Lakh Seventy Six Thousand Four Hundred & Eighty Only
82.00	Random rubble stone masonry work in cement mortar with mechanical mixer in foundation (at any level) complete as per drawing and technical specification and as per clause 1000 and 1400 of MoRT&H specification including all scaffolding material, labour, machinery but excluding pointing and plastering. In cement mortar 1:3 (1 cement : 3 coarse sand).	120.000	Cum	3430.00	411600.00	INR Four Lakh Eleven Thousand Six Hundred Only
Total in Figures					108141473.60	INR Ten Crore Eighty One Lakh Forty One Thousand Four Hundred & Seventy Three and Paise Sixty Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				

Item Rate BoQ

Tender Inviting Authority: Jaipur Development Authority, Jaipur

Name of Work: TRAFFIC IMPROVEMENT AND BEAUTIFICATION WORKS AT JAWAHAR CIRCLE, JDA JAIPUR

Contract No:- JDA/EE (Traffic Works-I)/04/2021-22

Bidder Name :						
PRICE SCHEDULE						
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
1.00	Providing & fixing Jodhpur Stone CLADDING 40 MM thick over Structural base with cement Mortar, with hairline joint at transition including cutting, rubbing and finishing, complete as per drawing and direction of Enginner- In- Charge and Architect. The Stone measurement will be done of outer most dimension of finished stone in X, Y and Z directions. The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	1680.480	SQM.		0.00	INR Zero Only
2.00	Providing and fixing Black Cadappa Cobble (4"x4"x3") Stone flooring work dressed stone (4" by 4") 3" thick in honed finished with pattern as per approved design over 25-50mm thick base in CM 1:6 including pointing with cement sand mortar 1:2 (1 Cement:2 sand) match the shade of stone with joint. The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	11970.000	SQM.		0.00	INR Zero Only
3.00	Fine dressed & machine cut edges 25-30 mm thick Black Granite flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design & drawing. The work may be done with combination of other Granite stone as per pattern given in drawing.The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	805.020	SQM.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
4.00	Fine dressed & machine cut edges 25-30 mm thick Pink Granite flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design drawing and instruction of EI. The work may be done with combination of other Granite stone as per pattern given in drawing.The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	192.690	SQM.		0.00	INR Zero Only
5.00	Fine dressed & machine cut edges 25-30 mm thick Jeerawal White Granite flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design drawing The work may be done with combination of other Granite stone as per pattern given in drawing.The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	2441.280	SQM.		0.00	INR Zero Only
6.00	Fine dressed & machine cut edges 30-35 mm thick Grey Granite (Sadarhali Stone) flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) jointed grey cement slurry mixed with pigment to match the shade of stone complete as per design drawing and instruction of EI. The work may be done with combination of other Granite stone as per pattern given in drawing.The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	2136.290	SQM.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
7.00	Providing and fixing stainless steel (Grade 304) railing made of hollow tubes, channels, plates etc. including welding, grinding , buffing, polishing and making curvature and design or pattern (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc. of required size on the top of the floor of the waist slab with suitable arrangement as per approval of engineer in charge. (For payment purpose only weight of S.S. Members shall be considered excluding fixing accessories such as nuts, bolts, fasteners, etc.)	2940.000	Kg		0.00	INR Zero Only
8.00	Providing and fixing Stone jali 50mm thick in Jodhpur sand stone including carving as per ornamental design & drawing. Fixing to be done with white cement/epoxy mortar including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade. The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge.	522.000	SQM		0.00	INR Zero Only
9.00	Providing and fixing Jodhpur sand stone post having approx size 100x100mm heights 750 mm including 100mm dia gola on top of same stone as per ornamental design and drawing; and all charge like labour, charges for fixing and material required for fixing like epoxy, white cement, pigment etc. Complete in all respect as direction of engineer in charge.	216.000	EACH		0.00	INR Zero Only
10.00	Providing and executing at site mural art work with traditional architecture by synthetic paint as per design and drawing. The item should be inclusive of finished wall with birla putty (interior/exterior). The cost is inclusive of all supplies, labour, civil work (if required), scaffolding, loading, unloading, and cost of molds whenever required.	120.000	SQM		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
11.00	Providing and Fixing 1st Class Rajasthani Marble of Super White Stone Sculpture, Column, Artifact, capital, pedestal, cornices,Pots, Kalash etc including all carving as per approved drawing and all charge like labour, charges for fixing and material required for fixing like araldite, white cement, pigment and all scaffolding required etc, Complete in all respect as direction of Engineer in charge. Stone sample to be approved by Engineer-in-charge and Architect before execution of Work.	108.734	CUM		0.00	INR Zero Only
12.00	Providing & fixing 50 mm thick 1st class Rajasthani Marble of Super White stone cladding as per drawing including shape on stone and engraving traditional shapes and engraving groove, border etc. The cladding shall of shapes and size as per the drawing including fixing at site as per directions. The cladding shall be measured net area provided and all wastage, cutting in shapes etc shall be borne by the agency.The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge. Stone sample to be approved by Engineer-in-charge and Architect before execution of Work.	409.122	SQM.		0.00	INR Zero Only
13.00	Providing & fixing 40 mm thick 1st class Rajasthani Marble of Super White stone cladding as per drawing including drawing shape on stone and engraving traditional shapes and engraving groove, border etc. The cladding shall of shapes and size as per the drawing including fixing at site as per directions. The cladding shall be measured net area provided and all wastage, cutting in shapes etc shall be borne by the agency. The Cost includes all charges like material, labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge. Stone sample to be approved by Engineer-in-charge and Architect before execution of Work.	165.295	SQM.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
14.00	Providing & fixing railing of Rajasthani Marble of Super White marble with cement Mortar & Tinex chemical with white cement slurry mixed with pigment to match the shade of the slab as per drawing attached ,with hairline joint at transition including rubbing and finishing, complete as per direction of Enginner- In- Charge and Architect. The Stone measurement will be done of outer most dimension of finished stone in X, Y and Z directions. It includes all Cost for the scaffolding arrangement and Adhesive complete along with wastage as per direction of engineer in charge. Stone sample to be approved by Engineer-in-charge and Architect before execution of Work.	125.000	MTR.		0.00	INR Zero Only
15.00	Providing & Fixing Rajasthani Marble of Super White Stone Benches (As per the Drawing) A. Dimensions (Approximate) :- Length - 1520 mm, Width - 600 mm, Height - 450 mm. The rates will be includes all charges like material (with cutting, carving, rubbing, etc), labour, fixing, scaffolding arrangement, wastage and Adhesive etc. complete in all respect as per direction of Engineer in charge. Stone sample to be approved by Engineer-in-charge and Architect before execution of Work.	14.000	EACH		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
16.00	P & F Gun metal statue/sculpture of any type & size as per approved drawing and placement of statue/sculpture as per direction of engineer-in-charge (composition of Gun Metal, Copper 85%, Tin 5% Lead 5% Zinc 5%.) 1: 1 Scale Model 1:1 Scale Model Shall be prepared in EPS with a final finish of POP to finalize stance and basics of required sculpture and to examine final features and shape of statue Sillicon Rubber Mold for Waxoming Mouds shall be prepared in Sillicon Rubber for further working in WAX Metal Casting Lost Wax casting process shall be applied and panel of the statue will be casting in minimum 1 to 2 pieces at our in house foundry. Average thickness of skin shall be 6 to 7 mm with composition of bronze will be Copper 75% ,Tin-10 %, Lead -10 %, Zinc -5% (Including 12% GST and Transportation and installation cost)	12000.000	Kg		0.00	INR Zero Only
17.00	Providing and Fixing Banswara White Stone Sculpture including all carving as per approved drawing and all charge like labour, charges for fixing and material required for fixing like araldite, white cement, pigment and all scaffolding required etc, Complete in all respect as direction of Engineer in charge	137.500	CUM		0.00	INR Zero Only
18.00	Providing and fixing of superior quality of Rajasthani Marble of Super White Stone Chattri including pillars, dasa, mehrab, thevi, barsot, glata, chajja, dabstone,coping, cladding, kalash, flooring , moulding of sizes as per approved drawing and design. Cost is inclusive of all material, stone and civil work like excavation, PCC, soling, casting of RCC dome, Plaster of dome, 3 line fine chisel dressed in C. M 1:2 including all gola , gatta work etc, labour, charges for fixing and material required for fixing like araldite, white cement, pigment and all scaffolding required etc, Complete in all respect as direction of Engineer in charge Stone sample to be approved by Engineer-in-charge and Architect before execution of Work. Stone Chattri (Size- 3.8 mx3.8m)	2.000	EACH		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
19.00	Providing and fixing of superior quality Rajasthani Marble of Super White Stone Chattri including pillars, dasa, mehrab, thevi, barsot, glata, chajja, dabstone, coping, cladding, kalash, flooring, moulding of sizes as per approved drawing and design. Cost is inclusive of all material, stone and civil work like excavation, PCC, soling, casting of RCC dome, Plaster of dome, 3 line fine chisel dressed in C. M 1:2 including all gola, gatta work etc, labour, charges for fixing and material required for fixing like araldite, white cement, pigment and all scaffolding required etc, Complete in all respect as direction of Engineer in charge Stone sample to be approved by Engineer-in-charge and Architect before execution of Work. Stone Chattri (Size- 2.8 m x 2.8 m)	2.000	EACH		0.00	INR Zero Only
20.00	Providing and fixing of superior quality Jodhpur Stone Chattri (Coffee hut) including pillars, dasa, mehrab, thevi, barsot, glata, chajja, dabstone, coping, cladding, kalash, flooring, moulding of sizes as per approved drawing and design. Cost is inclusive of all material, stone and civil work like excavation, PCC, soling, casting of RCC dome, Plaster of dome, 3 line fine chisel dressed in C. M 1:2 including all gola, gatta work etc, labour, charges for fixing and material required for fixing like araldite, white cement, pigment and all scaffolding required etc, Complete in all respect as direction of Engineer in charge. Stone Chattri (Size- 4.2 m x 4.2m)	6.000	EACH		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
21.00	Providing and laying/installing of RUNNING TRACK- 1). BASE LAYER- Base layer are made with tyre recycled crumb which is blended with two synthetic rubber. (Natural rubber & Styrene butadiene rubber-SBR) This base layer is for cushion purpose only. 2). TOP LAYER- Top layer is pure EPDM granules which is made with "Ethylene propylene diene monomer" with color pigment. Color are inbuilt with granules which will never loss original color. Granule standard size in 1-4 mm. Top layer of EPDM is fix of 6 mm thickness in any system. Creating any design/ logo over this EPDM surface of 6 mm only -rest is the cushion base surface. EPDM granule have high weather and heat resistance properties mainly non-toxic product. Thickness- 15mm Thick EPDM floorinh - (9mm Black base +6mm colored EPDM granules)	3162.500	sq mt		0.00	INR Zero Only
22.00	Providing & Fixing of Dustbin (As per the Drawing) A. Dimensions (Approximate) ; Length - 1300 mm, Width - 500 mm, Height - 1200 mm B. Planks :- Polystyrene Section [60mm X 20mm] Finish in Wooden smooth C. Metal Frames & Structure are in Mild Steel duly powder coated. Note: 1. The Mild Steel Section of 200 mm x 8 mm round was used to grout and anchor fasten the structure on PCC base. 2. The Planks used are of 60 mm x 20 mm dimensions and were replaced from the ones mentioned in the drawings.	50.000	EACH		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
23.00	Transplantation of trees with in a distance of 2km including excavation around existing tree, pruning of branches, lifting, loading and transportation of existing tree, digging pits for placing tree at new place, adding manure, sand, fertilizer, hormones and bio fertilizer to it. Levelled and neatly dressed and disposal of surplus materials from old existing and new sites to designated place. Each tree should be firmly secured to the stake so as to prevent excessive movement, flooding with water, treatment of roots, rope and gunny bags as per direction of the officer incharge. T&P and all required materials shall be arranged by the contractor and nothing extra shall be paid on this account. (a) Girth of tree shall be measured at a height of 1m above ground level. Girth of trees beyond 50cm and upto 90cm.	5.000	Nos.		0.00	INR Zero Only
24.00	Transplantation of trees with in a distance of 2km including excavation around existing tree, pruning of branches, lifting, loading and transportation of existing tree, digging pits for placing tree at new place, adding manure, sand, fertilizer, hormones and bio fertilizer to it. Levelled and neatly dressed and disposal of surplus materials from old existing and new sites to designated place. Each tree should be firmly secured to the stake so as to prevent excessive movement, flooding with water, treatment of roots, rope and gunny bags as per direction of the officer incharge. T&P and all required materials shall be arranged by the contractor and nothing extra shall be paid on this account. (a) Girth of tree shall be measured at a height of 1m above ground level. Girth of trees beyond 90cm and upto 150cm.	7.000	Nos.		0.00	INR Zero Only
25.00	Providing and installing Natural landscaping sandstone block extracted directly from natural stone quarries of natural irregularities. Ideal for Feature wall, garden lanscaping; imperfection types-chipped corners, uneven surface and tapering widths; surface- rough and unfinished (including All Taxes and transportation) Size approx-Base 5'x5' ht. 8'-10- Additional variation in size upto 10% may be possible as per the instruction given by arichitect & Engineer In Charge for which no extra payment will be made.	2.000	Each		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
26.00	Providing and installing of RWH system by trenching of 160mmx3m RWH pipe-PN6 with injection well with 12mm spirally perforated holes at 30 mm intervals throughout the pipe resulting to an open area of 135 square centimeter/Meter and specially designed with more tensile strength to take earth's spherical force when it inserted in the Injection well bore. The Run off along with dirt and debries deposits in the silt trap (8 feet down from ground level/ as per site condition)and overflow of water, flows to the injection well (storage well with filtration unit- 20 feet down from ground level/ as per site condition) through a underground pipe and passes through multi-layers of filetration Media- 150mm gravel and coarse stone, 100 mmm of 20mm crushed stones, 100mm of Charcoal and Activated carbon, 50 mm of 40 mm crushed stones followed by perforated reinforced concrete slab wall tickness 75mm then 1350 mm dia X 150 mm ht X 100mm wt. heavy duty RCC ring (14 nos. or as per soil condition) after that "V" wire screen with 140mm HDPE percolated pipe (upto drilling level) of 24m both ends are inserted with "V" wire screen which if filled with 10mm crushed stone. Also include trenching work and GST	4.000	Each		0.00	INR Zero Only
27.00	CCTV & Intelligent Traffic System Note:- The CCTV Surveillance system and Intelligent Traffic system has to integrate to JDA NOC, Police Control room & Abhay Command & Control Center Jaipur. SITC of Traffic flow bullet camera For traffic analysis which Cover 3 lanes (Details specifications as per Annexure 1); Approved Makes:- Pelco, Axis, Hikvision, Prama, Vivotek or Equivalent	3.000	Pcs		0.00	INR Zero Only
28.00	SITC of Strobe IR light which Support ambient brightness detection (Details specifications as per Annexure 1) Approved Makes:- Pelco, Hikvision, Prama, Vivotek or Equivalent	9.000	Pcs		0.00	INR Zero Only
29.00	SITC of L2, Unmanaged, 8 Gigabit POE ports, 1 Gigabit RJ45 uplink port, 1 Gigabit SFP uplink port, 802.3af/at, PoE power budget 58w (Details specifications as per Annexure 11) Approved Makes:- Cisco, Brocade, Hikvision, Hp or Equivalent	52.000	Pcs		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
30.00	SITC of 5MP ANPR capture Unit which is equipped with built in ANPR engine (Details specifications as per Annexure 2) Approved Makes:- Pelco, Vivotek, Hikvision, Prama or Equivalent	6.000	Pcs		0.00	INR Zero Only
31.00	SITC of strobe light which is Imported high-power infrared LED (Details specifications as per Annexure 2) Approved Makes:-Pelco, Vivotek, Hikvision, Prama or Equivalent	9.000	Pcs		0.00	INR Zero Only
32.00	SITC of High performance radar for speed calculation (Details specifications as per Annexure 2) Approved Makes:- Pelco, Vivotek, Hikvision, Prama or Equivalent	9.000	Pcs		0.00	INR Zero Only
33.00	SITC of Terminal server for Traffic flow and SVDS (Details specifications as per Annexure 3) Approved Makes:- Pelco, Axis, Hikvision, Prama, Vivotek or Equivalent	3.000	Pcs		0.00	INR Zero Only
34.00	SITC of 5 MP Varifocal Bullet Network Camera with mounting bracket (Details specifications as per Annexure 4) Approved Makes:- Pelco, Hikvision, Prama, Vivotek or Equivalent	36.000	Pcs		0.00	INR Zero Only
35.00	SITC of 4MP PTZ 32X Camera with mounting bracket (Details specifications as per Annexure 1) Approved Makes:- Pelco, Axis, Hikvision, Prama or Equivalent	6.000	Pcs		0.00	INR Zero Only
36.00	SITC of NVR for Bullet, PTZ (Details specifications as per Annexure 12) Approved Makes:- Pelco, Axis, Hikvision, Prama or Equivalent	1.000	Pcs		0.00	INR Zero Only
37.00	SITC of 6TB Surveillance HDD in NVR Approved Makes:- Pelco, Axis, Hikvision, Prama or Equivalent	6.000	Pcs		0.00	INR Zero Only
38.00	SITC of Surveillance class Common Micro SD Card 128GB for camera Approved Makes:- Hikvision, Sandisk, Samsung, Sony or Equivalent	50.000	Pcs		0.00	INR Zero Only
39.00	SITC of Panic Alarm Station (Details specifications as per Annexure 7) Makes:- Pelco, Axis, Hikvision, Prama, Vivotek or Equivalent	2.000	Pcs		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
40.00	SITC of Hybrid SAN for the central storage (Details specifications as per Annexure 8) Approved Makes:- Cisco, Hp, Hikvision, Prama or Equivalent	1.000	Pcs		0.00	INR Zero Only
41.00	SITC of 6 TB enterprises HDD Approved Makes :- Seagate, WD, Sandisk, Sony or Equivalent	10.000	Pcs		0.00	INR Zero Only
42.00	SITC of Video management software with E challan module and software should be from the same OEM (Details specifications as per Annexure 9) or Equivalent	1.000	Nos		0.00	INR Zero Only
43.00	SITC of Server for VMS (Details specifications as per Annexure 10) Approved Makes:- Dell, lenovo, Hp or Equivalent	1.000	Pcs		0.00	INR Zero Only
44.00	SITC of 55" 4K, HDMI*2, VGA*1, USB2.0, USB3.0, build-in speaker, view angle 178'178' plastic casing, VESA, 7*24h (Details specifications as per Annexure 13) Approved Makes:- Panasonic,Samsung Hikvision, Prama or Equivalent	1.000	Pcs		0.00	INR Zero Only
45.00	SITC of Web Managed 8 Gigabit PoE ports, 2 Gigabit SFP ports, 802.3af/at, PoE power budget 110W, max. 300 meter long distance PoE transmission, PoE watchdog, VLAN, QoS, SNMP, Port Mirroring, Storm Control,STP/RSTP. (Details specifications as per Annexure 14) Approved Makes:- Pelco, Axis, Hikvision, Prama or Equivalent	2.000	Pcs		0.00	INR Zero Only
46.00	SITC of 6.5M hot dip galvanised dual Octagonal pole gantry structure with 190mm top dia. A/F, 220mm bottom dia. A/F, 4mm thick HT sheet, 330X330X20mm base plate; along with 22M long horizontal member for camera mounting and Supply of 8 nos of M25X800mm long J foundation bolts along with required templates for above poles. Complete in all recepect including foundation.	3.000	Pcs		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
47.00	SITC of Entry-level Auto Barrier Gate with three year warranty, Barrier type: middle speed Lift-up speed: 3s Arm form: 4m,extensible boom pole Colour: gray Arm moving direction:Leftward Input power supply: 220V 50Hz (detailed specifications as per Annexure 15) Approved Make:- Hikvision, Godrej, Ditec or Equivalent	4.000	Nos		0.00	INR Zero Only
48.00	SITC of Anti-falling Radar with three yrs warranty, 79 GHz MMIC with higher resolution and more stable detection. Adopted with latest algorithm to filter the interference to radar from the advertising barrier, applicable to advertising barrier, fence, and straight boom pole. Able to recognize the target moving direction, applicable to mixed entrance and exit scenes. Adjustable detection distance and width with convenient operation and strong universality. Free of learning, applicable to more complex environments. Communication via RS-485 or Wi-Fi. Wi-Fi version is equipped with mobile phone application, with which you can debug and upgrade the radar with convenient operation. (detailed specifications as per Annexure 16) Approved Make:- Hikvision, Godrej, Ditec or Equivalent	4.000	Nos		0.00	INR Zero Only
49.00	SITC of Capture-trigger Radar with three yrs warranty, 79GHZ, Beam width:Vertical 34°, Horizontal 12°, relay output (detailed specifications as per Annexure 17) Approved Make:- Hikvision, Godrej, Ditec, Idemia	4.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
50.00	SITC of ANPR camera with three yrs warranty, 1/1.8 inch Progressive Scan CMOS, 1920 × 1080 at 60fps, 5.3 to 13 mm lens, ICR, support H.265, H.264,MJPEG, 3D Digital Noise Reduction, 24 V DC ± 20%, Support IR-30m,Support on-board storage up to 128 GB (TF card not included),License Vehicle detection with inbuilt independant automatic License plate recognition system working on optical character recognition technology. Camera should provide clear image of license plate along with recognized license plate no. and capture time (detailed specifications as per Annexure 18) Approved Make:- Hikvision, Godrej, Cisco, Pelco, Vivotek or Equivalent	4.000	Nos		0.00	INR Zero Only
51.00	SITC of Bracket and Pole for ANPR Camera	4.000	Nos		0.00	INR Zero Only
52.00	SITC of Power Supply 24VDC for ANPR Camera	4.000	Nos		0.00	INR Zero Only
53.00	SITC of Surveillance SD card 128GB	4.000	Nos		0.00	INR Zero Only
54.00	SITC of 4 Ports Switch with three yrs warranty, 4 Port Non-PoE Unmanaged Switch (detailed specifications as per Annexure 19) Approved Make:- Hikvision, Cisco, Brocade, Alcatel or Equivalent	4.000	Nos		0.00	INR Zero Only
55.00	SITC of Storage for ANPR with three yrs warranty, Connect Up to 8 IP Cameras, Dual OS, Up to 12 Megapixels Resolution, HDMI and VGA independent outputs provided, HDMI output with 4k output and VGA output with 2MP Output , Support H.265,H.264, MJPEG, Incoming Bandwidth 80 Mbps, 2 SATA Hard Disks, ANR Technology, 2 SATA interfaces for 2 HDDs and capacity of each HDD upto 8TB, 2 USB at least 1 × USB with 3.0, Alarm I/O 4/1, 1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface, Multiple network monitoring: Web viewer, CE, FCC, UL certified(detailed specifications as per Annexure 20) Approved Make:- Hikvision, Cisco, Godrej, Pelco, Netapp or Equivalent	1.000	Nos		0.00	INR Zero Only
56.00	SITC of HDD (6TB) Surveillance; Seagate, Sandisk or Equivalent	1.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
57.00	SITC of VMS (detailed specifications as per Annexure 21) Approved Make:- should be from same OEM; Software for Entrance & Exit Software	1.000	Nos		0.00	INR Zero Only
58.00	SITC of Server for VMS; (detailed specifications as per Annexure 22) Approved Make:- Dell, HP, Lenovo, Netapp	1.000	Nos		0.00	INR Zero Only
59.00	Grouting, pipe laying, Installation	1.000	Job		0.00	INR Zero Only
60.00	SITC 48 F UG Armoured OFC with splicing,termination & HDPE Duct complete in all respect as per detailed specification at Annexure-A	2000.000	Mtr		0.00	INR Zero Only
61.00	SITC of LIU 6F at Pole mount Outdoor rack fully loaded complete in all respect as per detailed specification at Annexure-B	27.000	Nos		0.00	INR Zero Only
62.00	SITC of LIU 96F at Control Room fully loaded complete in all respect as per detailed specification at Annexure-C	1.000	Nos		0.00	INR Zero Only
63.00	SITC of Pole Mount Outdoor Rack complete in all respect as per detailed specification at Annexure-D	49.000	Nos		0.00	INR Zero Only
64.00	SITC of 1 KVA LI UPS in Outdoor Rack complete in all respect as per detailed specification at Annexure-E	27.000	Nos		0.00	INR Zero Only
65.00	SITC of 42 U Smart Rack in Control room complete in all respect as per detailed specification at Annexure-F	1.000	Nos		0.00	INR Zero Only
66.00	SITC of 4 Armoured Cat 6 cable with Patch panel at each pole complete in all respect as per detailed specification at Annexure-G	74.000	Nos		0.00	INR Zero Only
67.00	SITC of 5 KVA online UPS in control room complete in all respect as per detailed specification at Annexure-H	1.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
68.00	PA &BGM system NOTE:-The complete PA & BGM system has to be integrate to the existing network operation centre (NoC), JDA Supply, installation, testing and commissioning of Two-way Small Format high SPL IP65 rated (as per IEC 529) all weather surface mount loudspeaker. The louspeaker shall meet the following performance criteria: Frequency Range (-10 dB) of 60 Hz - 20kHz or better; Nominal Dispersion : 120°H x 90°V; Peak Power handling of 400W peak or more; Sensitivity : 88 dBSPL and the Max SPL : 115dB Peak or better; Nominal impedance of 8 ohms and Integral multi-tap Transformer with selectable tap settings of 10/20/40/80W@70V & 100V. The loudspeaker system shall be comprised of 6.5-inch LF Driver; 1.25-inch high-frequency driver in an enclosure with integral steel back can & Powder-coated finish Aluminum grille; Standard quick mount bracket shall be included. Make :- L- acoustics/martin audio/d&b audio/Bose or equivalent	120.000	Nos		0.00	INR Zero Only
69.00	Supply, installation, testing & Comissioning of 4 channel class D Power amplifier with a Max Output Power of 4 x 500W@ 4 ohms, and bridged mode output power of 2 x 1000W @ 8 ohms/70/100V. 20Hz - 20 KHz, SNR of 101dB and THD + N of <0.4% with built in protection such as Limiters, Temperature, DC, Short Circuit, Peak Current Limiters, Turn on delay etc. Built in DSP for Matrix routing, Speaker equalization, Delays, Array EQs etc with Ethernet Port for Network Control, programming and monitoring. Analog input sensitivity for rated output: 0, +4, +12 and +24 dBu, user selectable; The amplifier front panel shall contain a user interface with a LCD display, with LED indicators for signal, input clipping, output limiting and fault. The Damping factor shall be >1000. Shall offer Built-in or Network audio connectivity (Dante) through expansion slot. Warranted for at least 5 years. Make:- Bose / Powersoft / Lab Gruppen or equivalent	8.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
70.00	SITC of Dante based Digital audio input card for offered multichannel amplifiers.; Interface Data: Dante network audio and control data ; Format 48 kHz, 24 bit PCM; Shall support redundant connections compelte with standard accessories.Channels In 8 ,Channels Out 8, post-processing Interface-Connectors Two 1 Gb (Gigabit) Ethernet RJ-45 . Make:- Bose / Powersoft / Lab Gruppen or equivalent	8.000	Nos		0.00	INR Zero Only
71.00	SITC of conferencing digital audio DSP with 32-bit fixed/floating-point DSP 456 MHz/ARM Cortex-A8 600 MHz processor or better. DSP shall have 12 balanced inputs and 8 balanced output channels for microphone or line-level analog audio signals, each independently controllable . The DSP shall have Dante digital audio networking up to 64 x64 channels, an Ethernet connection for control and programming on an RJ-45 jack. GPIO – 5x5 general-purpose I/O control, USB audio and 8 or better digital output channels on an RJ-45 jack. It shall have Serial Port – 3- wire RS-232C (DTE) serial interface connection. It shall Supports remote zone controllers. Dynamic Range > 115 dB, A-weighted 20 Hz – 20 kHz; THD : < 0.002 % or better ,Maximum Input Level +24 dBu; Phantom Power +48 VDC, 10 mA, selectable per input. The audio DSP shall include configurable signal processing, signal routing and mixing, equalization, filtering, dynamics, delay, as well as control, monitoring, and diagnostic tools. The audio DSP shall control and proxy all expansion devices and other Dante endpoints. Make :-Bose / Bi-AMP / Symmetrix or equivalent	1.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
72.00	SITC of Audio Output Interface Networked audio output expansion device with 4 line-level output channels, plus Emergency Message storage SITC of networked audio output expansion device with 4 line-level output channels. The audio output device shall be designed in such a manner that provide audio and control by Layer-2 protocol . It shall have Local storage of Emergency Messages in non-volatile memory, receive Power over Ethernet (PoE) utilizing a single (CAT5) network cable to a rear panel RJ45 connector. The output device shall provide four removable terminal block connectors for linelevel audio outputs, four control inputs, and four control outputs. It shall have channel-to-channel and device-to-device failover, local non-volatile storage of Emergency Messages, dual PoE capable with alternate powering from auxiliary 24V DC supply (dual inputs), Page Active Relays, Control Inputs, and Control Outputs. The audio output device shall provide local digital audio signal processing and local storage of configuration data, signal processing including volume control, filters, compressor/limiting, delay, speaker equalization. The audio output device shall indicate signal and clip with LEDs on the front panel. Make :- Biamp/Baidwin Boxall, Mediamatrix or equivalent	4.000	Nos		0.00	INR Zero Only
73.00	SITC of "Message Server Enhanced Networked Messaging Processor SITC of networked messaging processor. The Playing live & Pre-recorded server shall networked based & to be rack mountable in one rack space (1RU) and shall support advanced paging functionalities such as recorded message storage and playback, system configuration storage, event scheduling, time server support, storage of logged system data, VoIP triggered paging, email notification, and remote third party control capability. The processor shall feature a status LED and separate ports for TCP/IP Control and networked based Layer-2 or above protocol . The message Server shall be CE marked and shall be compliant with the RoHS directive. Make :- Biamp/Baidwin Boxall, Mediamatrix or equivalent	1.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
74.00	SITC of "Paging Station Emergency Wall-mounted Paging Station, 10 Buttons with hand-held microphone (EN 54-16 certified) SITC of EN 54-16 certified wall-mounted paging station to provide paging audio and network control data via network cable and using PoE power from RJ-45 connector. It shall have 10 or more buttons with multiple functions e.g .direct page ,zone recall etc. It shall provide multi level paging priorities functions and facility for override, store and forward, and keypad lock-out . It shall have inbuilt DSP ,data storage. It should have LED/LCD backlit screen, access via special code ,sutiable to work in high noise area with inbuilt noise-cancelling microphone. It shall be CE, RoHS compliant and EN 54-16 certified. Make :Biamp/Baidwin Boxall, Mediamatrix or equivalent	1.000	Nos		0.00	INR Zero Only
75.00	Audio Input Interface Networked audio input device with 6 channels of BGM or user configurable mic/line audio SITC of networked audio input expansion device .The audio input device shall provide audio and control via networked based Layer-2 or above protocol. It shall receive Power over Ethernet (PoE). The audio input device shall provide four sets of dual RCA connectors plus removable terminal block connectors for line-level inputs, two microphone/line inputs with phantom power, four paging inputs, six Rj45 outputs, four control inputs, and four control outputs. Software-configurable local audio signal processing including gain, filters, and compressor/limiter. The input device shall indicate signal and clip with LEDs on the front panel. The input device shall be CE marked and shall be compliant with the RoHS directive. Make :Biamp/Baidwin Boxall, Mediamatrix or equivalent	1.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
76.00	SITC of "Audio Player Versatile DAB+ and FM RDS / CD / USB / SD-card /Bluetooth music source, RS232 control, IR remote included, 1U, 19"" SITC of professional multisource CD/USB/SD-card music player with unbalanced outputs 2 x RCA + COMBI RCA, integrated FM RDS and tuner with RS232 control, IR remote included, rack mountable. Make :-Samsung, Sony, Apart or equivalent	1.000	Nos		0.00	INR Zero Only
77.00	SITC of Customized Console- Weatherized Temperature Controlled Rack-9U. Make:Cosmotech/Netrack/president/WQ/Hvlast or Equivalent	4.000	Nos		0.00	INR Zero Only
78.00	SITC of Equipment Rack - 42U Rack Frame/600X800/Steel/NRS1/ CKD/Casters Type 2,Levellers,Server /IT Rack mount power distribution unit, 1Ph, 230V, 32A, 50/60Hz, Zero U standard with 12 X Indian Round Pin 5/15A, (Inlet Plug Not Installed, Recommended IEC30932A 2P +E), 16A MCB X 2 Circuits- PDU Rating 7.3KVA/Bottom feed-3Mt/ Black ,ITE / Server Rack Air Circulation module/Tower Mount/360CFM,Mounting Hardware-CR (Pack of 20) Make:Cosmotech/Netrack/president /WQ/Hvlast or Equivalent	1.000	Nos		0.00	INR Zero Only
79.00	SITC of Rack Finishing- with OFC Termination Make: Aksh, Molex,D-link or Equivalent	5.000	Nos		0.00	INR Zero Only
80.00	SITC of 8 x 10/100/1000T ports (POE) 4 x 100/1000x SFP Industrial L3 Switch. Make santelequip/Moxa/hirschmann /Cisco/Alcatel or Equivalent	1.000	Nos		0.00	INR Zero Only
81.00	SITC of 8 x 10/100/1000T ports (POE) 2 x 100/1000x SFP Combo Industrial Managed Switch Make :santelequip/Moxa/hirschmann /Cisco/Alcatel or Equivalent	4.000	Nos		0.00	INR Zero Only
82.00	SITC of 1000BaseLX SFP (10km) of Reputed Make	10.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
83.00	SITC of LIU Single Mode with Piggtail and Adapter (Patch Panel for core with inbuilt pigtails) The 1U Multi-Function Fibre 24 Enclosure is a configurable rack mount unit for storing and terminating incoming fibre cable. The fibre enclosure has been designed to accommodate various termination types and adapter configurations The enclosure must, have a sliding drawer for ease of reconfiguring fibres, ncorporatesaheavydutyballbearingslidemechanism,allowingeasyaccessto fibres Theadapterplatesmustbeaninterchangeablefrontplatewhichcanfacilitates upgrades as & when required. The enclosure/ LIU should have locks to secure all the fiber terminations & must have front cable management to properly route patch cords. Fibre management enclosures that can be used as a wall mount enclosure for isolated applications or rack mount enclosure for integrated applications. 1.75 inches The LIU must be upgradable up 96 ports LC Style 482mm W x 254mm D x 43mm H(Rackmount) 305mm W x 254mm D x 43mm H (Wallmount Powder coated Mild Steel . make-Molex/ panduit/simon/ Aksh or Equivalent	10.000	Nos		0.00	INR Zero Only
84.00	SITC of Speaker Cable 4sqmm armoured 2 core CABLE DESCRIPTION - 2 core X 4.00 Sq. mm (128/.20mm) ATC Copper conductor PVC Insulated, PVC inner sheath, G.I. wire (0.9 mm) Armoured,Over all PVC Sheathed Speaker Cable. PHYSICAL SPECIFICATIONS:- • Cross Sectional Area : 4.00 Sq. mm,• No. of Strands : 128 Strands • Size of Strand : 0.20 mm / 36 SWG / 32 AWG• Conductor Type : ATC Copper • Core Diameter : 4.20 mm• GI wire : 0.9 mm• Insulation Type : PVC Compound • Outer Sheath Type : PVC Compound• Overall OD : 14.70 mm + 0.20 mm TECHNICAL SPECIFICATIONS:- • Operating Voltage : 1100 Volts• Current Carrying Capacity : 26 Amps. • Nominal Capacitance- Cond. / Cond. : 62 pF / Feet- Cond. / Shield : 165 pF / Feet • Nom. Cond. DC Resistance- Conductor : 4.88Ω / Km at 20° C ELECTRICAL PROPERTIES • Volume resistivity : 1x1014 ohm / cm at 27 0 C• Dielectric constant : 3.9 at 1000 Hz Make:Krystal/ belden/klotz or Equivalent	3250.000	Mtr.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
85.00	SITC of Weather Proof Junction Boxes	60.000	Nos		0.00	INR Zero Only
86.00	SITC of 12ft height Pole for mounting of speaker	6.000	Nos		0.00	INR Zero Only
87.00	SITC of Speaker Brackets with monkey protection unit.	116.000	Nos		0.00	INR Zero Only
88.00	SITC of T-Junction Coupler	60.000	Nos		0.00	INR Zero Only
89.00	SITC of Joint Closures 12F .	6.000	Nos		0.00	INR Zero Only
90.00	SITC of SS Hose Clamps	240.000	Nos		0.00	INR Zero Only
91.00	SITC of Cat 6 U/UTP 4 feet End-to-End Solution and are designed to support data networks for 10/100BASE-T and 1000BASE-T applications, 24 AWG stranded copper wire, 5.9mm LS0H, 4X O.D., Transparent Plug with anti-snap slip on boots ISO/IEC 60606-7-4 and FCC 47 Part 68, Fire Propagation compliant with CSA FT1, IEC 60332-1, IEC 61034-20°C to 60°C, 750 insertion cycles, Clear polycarbonate, 0.35mm thick copper alloy, Selective gold, ISO/IEC 60603-7-4 and FCC 47 Part 68, ISO/IEC 11801:2002/Amd 2:2010 Cat 6, TIA-568-C.2 Cat 6, UL/ETL Verified LS0H Sheath: CSA FT1, IEC 60332-1, IEC 61034, 0.5m to 10 mtr. Make: Molex/panduit/simon or Equivalent	10.000	Nos		0.00	INR Zero Only
92.00	Supplying and laying of 63 mm dia (OD-63 mm & ID-51 mm nominal) DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required. ISI : Mark	2000.000	Mtr		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
93.00	Supply , installation testing and commissioning of 9M height four arm Pole Made in combination of continous Conical taper section (6000 mm length minimum) which is fabricated using High tensile MS Sheet (3mm thick) with top dia. 80-90mm minimum & bottom 140-155 dia. Minimum 1.7M height four arm ornamental designed bracket made in combination of mild steel pipe sections 60mm dia. x 2.6mm thick & 38mm dia x 2mm thick. Decorative part made in combination of gravity cast aluminium to get horizional arm length as shown in drawing with pleasing aesthetics. The brackets shall be a single piece assembly and should be capable of orientation in any direction and secured with stainless steel 304 grade allen grub screws. Decorative ring between base pole and bracket is made of cast iron. Decorative finial top is made of cast iron in single piece of min. height 250mm. The decorative base is made of Gravity cast aluminium with the company / brand logo embossed on it. With minimum dia of the base is 500 mm & height is 1250mm. All dimension are within +/- 5% tolerance. Cast aluminium material is LM6 grade. Cast iron-Material-Grey Iron & Grade-FG 200. The pole should be provided with an inbuilt junction box to fix 32A connectors and 6A MCB, at the bottom - the inbuilt box should have a flush door of suitable size. The decorative pedestal to be mounted on a suitable size steel plate. The pole is to be provided with a surface mounting suitable base plate (steel of grade E250 to IS 2062 : 2011) and welded at the bottom of the pole with supporting gussets. The mounting plate shall be provided with elongated holes for alignment of the pole with suitable hot dip GI foundation bolts and nuts (Grade 4.6). The pole shall be coated zinc rich primer & pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane base paint (coating thickness - 80 microns minimum), including foundation of pole . Final design in concurrence with the Engineer in-charge. Complete in all recepect as per enclose Drawing -Annexure- AA	55.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
94.00	Supply, Installation testing and Commisioning of A modern heritage pathway luminaire, integral model, totally weather proof aesthetically contoured. Improved long lasting protection against ingress of dust / moisture / insects inside optical compartment with top opening facility for maintenance. Streamlined aerodynamic profile for lesser resistance. Luminaire comprises of specially contoured spun aluminium body. Non yellowing, UV stabilised, convex type acrylic diffuser. Luminaire Ø600 and height 600mm. Suitable for mounting to internally threaded pipe of designation M30. Supplied with wattage of 100W. System efficacy 100 lm/W minimum, The value shall not exceed junction temperature Tj 85°C, Luminaire body temperature should not exceed 30°C, CRI >70, different CCTs, life span of L70 / B10 @ 50000 Hrs, SDCM ≤ 3, Type III light distribution, Operating Temperature 0°C~45°C, Input Voltage 230-240V ac, Operating voltage 100-277V ac with cut-off protection and self restart feature in case of over / under voltage and phase to phase voltage, driver efficiency > 85%, frequency 50-60Hz, Power factor >0.9, 6KV surge protection, THD <10%, IP65 protection, CE /BIS Conformity.	220.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
95.00	Supply , installation testing and commissioning of 6M height twin arm Pole Made in combination of continous Conical taper section (3500 mm length minimum) which is fabricated using High tensile MS Sheet (3mm thick) with top dia. 80-90mm minimum & bottom 120-130 dia. Minimum 1.5M height twin arm ornamental designed bracket made in combination of mild steel pipe sections 60mm dia. x 2.6mm thick & 38mm dia x 2mm thick. Decorative part made in combination of gravity cast aluminium to get horizional arm length as shown in drawing with pleasing aesthetics. The brackets shall be a single piece assembly and should be capable of orientation in any direction and secured with stainless steel 304 grade allen grub screws. Decorative ring between base pole and bracket is made of cast iron. Decorative finial top is made of cast iron in single piece of min. height 250mm. The decorative base is made of Gravity cast aluminium with the company / brand logo embossed on it. With minimum dia of the base is 500 mm & height is 1250mm. All dimension are within +/- 5% tolerance. Cast aluminium material is LM6 grade. Cast iron-Material-Grey Iron & Grade-FG 200. The pole should be provided with an inbuilt junction box to fix 32A connectors and 6A MCB, at the bottom - the inbuilt box should have a flush door of suitable size. The decorative pedestal to be mounted on a suitable size steel plate. The pole is to be provided with a surface mounting suitable base plate (steel of grade E250 to IS 2062 : 2011) and welded at the bottom of the pole with supporting gussets. The mounting plate shall be provided with elongated holes for alignment of the pole with suitable hot dip GI foundation bolts and nuts (Grade 4.6). The pole shall be coated zinc rich primer & pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane base paint (coating thickness - 80 microns minimum), including foundation of pole. Final design in concurance with the Engineer in-charge. Complete in all recepect as per enclose Drawing--Annexure- AA	90.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
96.00	Supply , installation testing and commissioning of A modern heritage pathway luminaire, integral model, totally weather proof aesthetically contoured. Improved long lasting protection against ingress of dust / moisture / insects inside optical compartment with top opening facility for maintenance. Streamlined aerodynamic profile for lesser resistance. Luminaire comprises of specially contoured spun aluminium body. Non yellowing, UV stabilised, convex type acrylic diffuser. Luminaire Ø400 and height 400mm. Suitable for mounting to internally threaded pipe of designation M30. Supplied with wattage of 30W. System efficacy 100 lm/W minimum, The value shall not exceed junction temperature Tj 85°C, Luminaire body temperature should not exceed 30°C, CRI >70, different CCTs, life span of L70 / B10 @ 50000 Hrs, SDCM ≤ 3, Operating Temperature 0°C~45°C, Input Voltage 230-240V ac, Operating voltage 100-277V ac with cut-off protection and self restart feature in case of over / under voltage and phase to phase voltage, driver efficiency > 85%, frequency 50-60Hz, Power factor >0.9, THD <10%, IP65 protection, CE/ BIS Conformity.	180.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
97.00	Supply, Installation and Commisioning of 4.2M height single arm pole made in combination of circular pipe (2500 mm length minimum) which is fabricated using 88.9mm dia x 2.9 thick. Minimum 1M height single arm ornamental designed bracket made in combination of mild steel pipe sections 60mm dia. x 2.6mm thick & 38mm dia x 2mm thick. Decorative part made in combination of gravity cast aluminium to get horizontal arm length as shown in drawing with pleasing aesthetics. The brackets shall be a single piece assembly and should be capable of orientation in any direction and secured with stainless steel 304 grade allen grub screws. Decorative ring between base pole and bracket is made of gravity cast aluminium. Decorative finial top is made of cast iron in single piece of min. height 250mm. The decorative base is made of Gravity cast aluminium with the company / brand logo embossed on it. With minimum dia of the base is 300mm & height is 570mm. All dimension are within +/- 5% tolerance. Cast aluminium material is LM6 grade. The pole should be provided with an inbuilt junction box to fix two way connecto and 6A MCB at the bottom - the inbuilt box should have a flush door of suitable size. The decorative pedestal to be mounted on a suitable size steel plate. The pole is to be provided with a surface mounting suitable base plate (steel of grade E250 to IS 2062 : 2011) and welded at the bottom of the pole with supporting gussets. The mounting plate shall be provided with elongated holes for alignment of the pole with suitable hot dip GI foundation bolts and nuts (Grade 4.6). The pole shall be coated zinc rich primer & pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane base paint (coating thickness - 80 microns minimum), including foundation of pole. Final design in concurance with the Engineer in-charge. Complete in all recepect as per enclose Drawing--Annexure- AA	110.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
98.00	Supply, Installation and Commissioning of A modern heritage pathway luminaire, integral model, totally weather proof aesthetically contoured. Improved long lasting protection against ingress of dust / moisture / insects inside optical compartment with top opening facility for maintenance. Streamlined aerodynamic profile for lesser resistance. Luminaire comprises of specially contoured spun aluminium body. Non yellowing, UV stabilised, convex type acrylic diffuser. Luminaire Ø280 and height 250mm. Suitable for mounting to internally threaded pipe of designation M20. Supplied with wattage of 24W. System efficacy 100 lm/W minimum, The value shall not exceed junction temperature Tj 85°C, Luminaire body temperature should not exceed 30°C, CRI >70, different CCTs, life span of L70 / B10 @ 50000 Hrs, SDCM ≤ 3, Operating Temperature 0°C~45°C, Input Voltage 230-240V ac, Operating voltage 100-277V ac with cut-off protection and self restart feature in case of over / under voltage and phase to phase voltage, driver efficiency > 85%, frequency 50-60Hz, Power factor >0.9, THD <10%, IP65 protection, CE/BIS Conformity.	110.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
99.00	Supply , installation testing and commissioning of 4.2M height single arm pole made in combination of circular pipe (4000 mm length minimum) which is fabricated using 88.9mm dia x 2.9 thick. Decorative part made in combination of gravity cast aluminium to get horizontal arm length as shown in drawing with pleasing aesthetics. The sleeve shall be a single piece assembly and should be capable of orientation in any direction and secured with stainless steel 304 grade allen grub screws. Decorative ring between base pole and bracket is made of gravity cast aluminium. Decorative finial top is made of cast aluminium in single piece of min. height 180mm. The decorative base is made of Gravity cast aluminium with the company / brand logo embossed on it. With minimum dia of the base is 300mm & height is 570mm. All dimension are within +/- 5% tolerance. Cast aluminium material is LM6 grade. The decorative pedestal to be mounted on a suitable size steel plate. The pole is to be provided with a surface mounting suitable base plate (steel of grade E250 to IS 2062 : 2011) and welded at the bottom of the pole with supporting gussets. The mounting plate shall be provided with elongated holes for alignment of the pole with suitable hot dip GI foundation bolts and nuts (Grade 4.6). The pole shall be coated zinc rich primer & pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane base paint (coating thickness - 80 microns minimum), including foundation of pole. Final design in concurrence with the Engineer in-charge. Complete in all recept as per enclose Drawing--Annexure- AA	15.000	Nos		0.00	INR Zero Only
100.00	Supply, Installation testing and Commissioning of 3W Luminaire housing and top ring is made of die-cast aluminium which has high resistance against corrosion. Mounting spike is made of polypropylene material. Clear tempered safety glass, swivel range of the luminaire in the horizontal axis 0°-90°, supplied with 1m cable length, Supplied with wattage of 3W, IP67 connector, silicone gasket, CRI ≥80, life span of L70 / B10 @ 60000 Hrs, SDCM ≤3, Beam angles of 15°/25°/40°, constant current integral power supply, PF>0.9, THD <10%, 2kv Surge protection, efficiency upto 80%, IP65 protection & CE conformity. Finish to be pure polyester powder coated as per architect color scheme .As per Architectural design requirement and complete in all respects .	20.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
101.00	Supply, Installation testing and Commissioning of 6W Luminaire housing and top ring is made of die-cast aluminium which has high resistance against corrosion. Mounting spike is made of polypropylene material. Clear tempered safety glass, swivel range of the luminaire in the horizontal axis 0°-90°, supplied with 1m cable length, Supplied with wattage of 6W, IP67 connector, silicone gasket, CRI ≥80, life span of L70 / B10 @ 60000 Hrs, SDCM ≤ 3, Beam angles of 15°/25°/40°, constant current integral power supply, PF>0.9, THD <10%, 2kv Surge protection, efficiency upto 80%, IP65 protection & CE conformity. Finish to be pure polyester powder coated as per architect color scheme .As per Architectural design requirement and complete in all respects .	25.000	Nos		0.00	INR Zero Only
102.00	Supply ,installation testing and commissioning, of 12W Luminaire housing, top ring and mounting bracket is made of die-cast aluminium which has high resistance against corrosion. Clear tempered safety glass, swivel range of the luminaire in the horizontal axis 0°-90°, supplied with 1m cable length, Supplied with wattage of 12W, IP67 connector, silicone gasket, CRI ≥80, life span of L70 / B10 @ 60000 Hrs, SDCM ≤ 3, Beam angles of 15°/25°/40°, constant current integral power supply, PF>0.9, THD <10%, 2kv Surge protection, efficiency upto 84%, IP65 protection & CE conformity. Finish to be pure polyester powder coated as per architect color scheme .As per Architectural design requirement and complete in all respects .	50.000	Nos		0.00	INR Zero Only
103.00	Supply , installation testing and commissioning of IP65 safety class 1, BIS certified bollard made up of Extruded aluminium column with die-cast aluminium flat top cover ,(grade 6063) with die cast AL component and non corrosive SS fastener .. Cast iron /AL plate to be provide for bolting and foundation . 15W bollard of Ø166 x 895mm, with lumen output of 673lm(WW), creating a pleasant light distribution with high degree of visual comfort . Finish to be pure polyester powder coated as per architectural design requirement. Luminaire prewired with LED driver and suitable for operation on 240V, 50Hz single phase ac supply.	300.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
104.00	Supply and Installation testing and commissioning of Outdoor LED luminarie IP65 CE marked certified surface /wall mounted High pressure die-cast aluminium housing consisting of High efficiency optical lens with clear diffuser, die-cast Aluminium supporting base, EPDM gasket for leakproof structure design, Cable entries for through-wiring of mains supply cable consisting of Integral power supply compatible with lighting management system and mounting screws of stainless steel. As per architectural design requirement and complete in all respects .Wall and surface-mounted luminaire with 3000K LED,6W having lumnes upto 221lm, 360° optics. Prewired with driver and suitable for operation on 240V, 50Hz single phase ac supply as per Architectural design requirement and complete in all respects.	36.000	Nos		0.00	INR Zero Only
105.00	Supply , Installation testing and Commissioning of CE/BIS marked 24V IP67 High-Grade Vertical bend flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. Diffuser / Protection Polyurethane Encapsulation to achieve IP67 rating. Having 60° beam angle. CRI >80.Water & UV resistant flexible linear LED luminaire. Having atleast 9W/mtr and upto 80lm/W ,Complete with power supply , connectors ,end caps complete in all respects .As per Architectural design requirement and complete in all respects.	20.000	Mtr		0.00	INR Zero Only
106.00	Supply ,installation testing and commissioning, Luminaire housing, top ring and mounting bracket is made of die-cast alminium which has high resistance against corrosion. Clear tempered safety glass, swivel range of the luminaire in the horizontal axis 0°-90°, supplied with 1m cable length, Supplied with wattage of 6W, IP67 connector, silicone gasket, CRI ≥80, life span of L70 / B10 @ 60000 Hrs, SDCM ≤ 3, Beam angles of 15°/25°/40°, constant current integral power supply, PF>0.9, THD <10%, 2kv Surge protection, efficiency upto 84%, IP65 protection & CE conformity. Finish to be pure polyster powder coated as per achritect color scheme .As per Architectural design requirement and complete in all respects .	4.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
107.00	Supply ,installation testing and commissioning In-Ground drive over luminaire housing is made of die-cast aluminium and top front ring is made of hard chromeplated stainless steel 316 grade with high resistance against corrosion. Molding shaped silicone gasket which fits between housing and top ring. IP68 PG-11 cable gland is used to protect luminaire from water ingress. Luminaire is supplied with hard wired 3 x 0.5mm2 cable of 1m length. Supplied with system wattage of 6W with tiltable option. CRI ≥80, different CCTs, life span of L70 / B10 @ 60000 Hrs, SDCM ≤ 3, Beam angle of 20°, Step temper clear 8mm thk. glass, Integral constant current power supply, PF>0.9, THD <10%, 2kv Surge protection, efficiency upto 84%, to be Supplied with mounting sleeve for preparing recessed opening inground.ABS recess mounting sleeve. CE/BIS conformity.	24.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
108.00	Supply, Installation testing and Commissioning of 6m Conical Decorative pole Surface mounting continuously tapered conical steel lighting pole of total height 6 meters ove ground. with decorative ornament;al Gravity Cast aluminium base of Dia:>420mm, & Ht:>470mm. Decorative brackets made of single cast aluminium which can be aligned to desired location as per architects design. Additional basket can be provided on request as per approved design. The pole shall be provided with built-in control box with cast aluminium service door and a safety chain. The control gear tray is to be prewired with Ramanuj 4 way connector for loop-in loop-out arrangement and Siemens / Crabtree make MCB & connector. The gear tray wiring shall be with 2.5 sqmm copper cable. The wiring will be limited to gear tray only. Foundation Base Plate :The Pole is to be provided with a surface mounting base plate of size 250 x 250 x 12 mm, (steel of grade E250 to IS 2062 : 2011) and welded at the bottom of the pole with supporting gussets. The mounting plate shall be provided with elongated holes (38 x 19) for alignment of the pole to suit M16 Bolt at CC 180.. Finish :The Pole is to be coated with an epoxy zinc rich penetrating primer 45 microns thick and finished with polyurethane base paint for a long lasting finish with 45 microns coat in required colour. Accessories: Hot dip GI foundation bolts and nuts (Grade 4.6) are to be supplied with the poles. Complete in all recepect including foundation of pole as per enclose Drawing--Annexure- AA	40.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
109.00	Supply, Installation testing and Commissioning of 2.6M height triple arm, highly designed and ornate sculptural lighting piece made in aluminium (2500 mm length minimum). The decorative base is made of cast aluminium with minimum base width of 720mm & height is 620mm. Shaft made of continuously tapered aluminium grooved design and two decorative single piece of aluminium bracket. All dimension are within +/- 5% tolerance. The decorative pedestal to be mounted on a suitable size steel plate. The pole is supported by an internal structural steel shaft and to be provided with a surface mounting suitable base plate (steel of grade E250 to IS 2062 : 2011). The mounting plate shall be provided with elongated holes for alignment of the pole with suitable hot dip GI foundation bolts and nuts (Grade 4.6). The pole shall be coated zinc rich primer & pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane base paint (coating thickness - 80 microns minimum), including foundation of pole. Final design in concurrence with the Engineer in-charge. Complete in all recepect as per enclose Drawing--Annexure- AA	5.000	Nos		0.00	INR Zero Only
110.00	Supply , installation testing and commissioning of A modern heritage post top luminaire, integral model, totally weather proof aesthetically contoured. Improved long lasting protection against ingress of dust / moisture / insects inside optical compartment. Luminaire made of gravity cast aluminium body. Non yellowing, UV stabilised, acrylic diffuser. Luminaire width 450mm and height 800mm. Suitable for mounting on 60mm OD Pipe. Supplied with wattage of 30W. System efficacy 100 lm/W minimum, The value shall not exceed junction temperature Tj 85°C, Luminaire body temperature should not exceed 30°C, CRI >70, different CCTs, life span of L70 / B10 @ 50000 Hrs, SDCM ≤ 3, Operating Temperature 0°C~45°C, Input Voltage 230-240V ac, Operating voltage 100-277V ac with cut-off protection and self restart feature in case of over / under voltage and phase to phase voltage, driver efficiency > 85%, frequency 50-60Hz, Power factor >0.9, THD <10%, IP65 protection, CE/ BIS Conformity.	15.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
111.00	Supplying and fixing of 25mm Foam jet made out with gunmetal with chrome plated Achive water effect ht upto 0.5-0.6 mtr. high make - Color Design India/Oase/H2O or equivalent as per entire instruction, direction and satisfaction of Engineer-in-charge.	7.000	Nos.		0.00	INR Zero Only
112.00	Supplying and fixing of 25mm Ball joint for foam jet made out with gunmetal with chrome plated. make - Color Design India/Oase/H2O or equivalent as per entire instruction, direction and satisfaction of Engineer-in-charge.	7.000	Nos.		0.00	INR Zero Only
113.00	Supplying and Fixing of 25mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/ Arch) complete as per per the direction and entire satisfaction of Engineer in Charge	7.000	Nos.		0.00	INR Zero Only
114.00	Supplying and Fixing of 40mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/ Arch) complete as per per the direction and entire satisfaction of Engineer in Charge	2.000	Nos.		0.00	INR Zero Only
115.00	Supplying and fixing of 50 mm dia GI B class circular shaped ring having size of 3.1 mtr. arch shaped for foam jet water effect with 7 nos. 25 mm dia socket welded and 50mm dia. socket 1 no. for inlet connection including bending /threading/ fixing/welding complete. All fixing to be done as per direction, instruction and entire satisfaction of Engineer-in-charge.	1.000	Nos.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
116.00	Supplying installation testing and commissioning of horizontal monoset submersible Pump Set with Starter and totally enclosed water filled squirrel cage induction motor water lubricated with oil seals with sleeves and thrust bearing having all rotating parts dynamically balanced for silent operation Suitable for three phase 50 HZ AC supply as per direction, instruction and entire satisfaction of Engineer-in-charge. Motor Body : CI Pump Body : CI Make : Kirlosker/Crompton/CRI or equivalent Capacity : 2 HP Three Phase Discharge 12 LPS Head 6 Mtr Suction & Delivery 65x50mm	1.000	Nos.		0.00	INR Zero Only
117.00	Supply & Fixing water proof high power LED lights 18 watts, color changing/RGB made out of san top with ABS base suitable protection class of IP-68. (Color Design India/Oase/H2O or equivalent) complete as per the direction & entire satisfaction of Engineer in charge.	7.000	Nos.		0.00	INR Zero Only
118.00	Supply & Fixing of Master Control Device for LED Lights having Specifications:- * PIC based controller with master & slave communication protocol. * Push feature to lock any running colour chase to a fix colour. * 24 Pre-Programmed colour patterns and Load Circuit-Inbuilt with accessories complete, Body - Plastic/PVC, Output Power - 18V DC, Make : - (Color Design India/Oase/H2O or equivalent) complete as per the direction & entire satisfaction of Engineer in charge.	1.000	Nos.		0.00	INR Zero Only
119.00	Supply and fixing of Power Supply (PS) 3A suitable for 18Watt LED lights (Color Design India/Oase/H2O or equivalent) as per the direction and entire satisfaction of Engineer in Charge.	1.000	Nos.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
120.00	Supplying installation, testing and commissioning of Starter for 2HP/3Phase Pumpset, Make kirloskar/L&T/ABB or Equivalent as per the direction and entire satisfaction of Engineer in Charge.	1.000	Nos.		0.00	INR Zero Only
121.00	Supplying and fixing 3x 2.5 sqmm round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for filter pumps (a) 3 x 2.5 sq mm size.	30.000	Mtr.		0.00	INR Zero Only
122.00	Supplying and fixing 4 x 2.5 sqmm submersible Round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for RGB LED Lights complete. (b) 4X2.5 sq mm size.	30.000	Mtr.		0.00	INR Zero Only
123.00	Supplying and fixing PVC Medium Class conduit pipe for concealing of Cables make Kalinga/ AKG or equivalent /ISI Mark (e) 25 mm size.	20.000	Mtr.		0.00	INR Zero Only
124.00	Supplying and Making water Proof joint of underwater cables for submersible cable complete as required.	7.000	Nos.		0.00	INR Zero Only
125.00	Supplying and 65mm dia. Debris Collection Stainers in Stainless Steel 304 grade complete as required.	1.000	Nos.		0.00	INR Zero Only
126.10	SITC of UPVC pipes (10 Kgf/cm2) of make supreme / Prince or equivalent confirming to IS 4985:2000 including all UPVC fitting tested to a test pressure of 10 Kgf/sqcm i/c jointing with good quality solvent of following sizes. All fixing to be done to the entire satisfaction and sample approved by Engineer-incharge. 63 mm OD Pipe (for delivery)	3.000	Nos.		0.00	INR Zero Only
126.20	50 mm OD Pipe (for overflow and drain)	12.000	Nos.		0.00	INR Zero Only
126.30	32 mm OD Pipe (for inlet)	12.000	Nos.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
127.00	STTC of 50 mm dia CI Butterfly Valve of pressure rating PN1.6 with EPDM rubber lining matching flanges and accessories complete short pattern as required (Kirkoskar/leader/Zoloto/Sant or equivalent) as per per the direction and entire satisfaction of Engineer in Charge.	1.000	Nos.		0.00	INR Zero Only
128.00	Supply and fixing of 50 mm dia Non return Valve and accessories complete. Make - Sant/Leader/HVI/Zoloto or equivalent	1.000	Nos.		0.00	INR Zero Only
129.00	Supplying and fixing of 50 mm dia diffusers for water overflow to bowls made out with stainless steel 304 grade body having size of 1 mtr. long. make - Color Design India/Wet design/Oase/H2O or equivalent and as per entire instruction, direction and satisfaction of Engineer-in-charge.	24.000	Set		0.00	INR Zero Only
130.00	Supplying and Fixing of 40mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/Arch or equivalent) complete as per per the direction and entire satisfaction of Engineer in Charge	2.000	Nos.		0.00	INR Zero Only
131.00	Supplying and Fixing of 50mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/Arch or equivalent) complete as per per the direction and entire satisfaction of Engineer in Charge	24.000	Nos.		0.00	INR Zero Only
132.00	Supplying installation testing and commissioning of horizontal monoset submersible Pump Set with Starter and totally enclosed water filled squirrel cage induction motor water lubricated with oil seals with sleeves and thrust bearing having all rotating parts dynamically balanced for silent operation Suitable for three phase 50 HZ AC supply as per direction, instruction and entire satisfaction of Engineer-in-charge. Motor Body : CI Pump Body : CI Make : Kirkoskar/Crompton/CRI or equivalent Capacity : 2 HP Three Phase Discharge 11 LPS Head 8 Mtr Suction & Delivery 65x50mm	4.000	Set		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
133.00	Supply & Fixing water proof high power LED lights 6x3=18 watts, single color warm white made out of stainless steel 304gr. suitable to be fitted with emitter type power LED's with all in one optical lens of 85% effeciency step pempered glass 8 mm with protection class of IP-68. (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) complete as per the direction & entire satisfaction of Engineer in charge.	58.000	Each		0.00	INR Zero Only
134.00	Supply & Fixing adjustable stainless stand (SS-304)/housing for LED lights with all accessories including nuts bolts complete as required for jet nozzle (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) etc complete as per the direction & entire satisfaction of Engineer in charge.	58.000	Each		0.00	INR Zero Only
135.00	Supply and fixing of Constant Voltage Driver (CVD) 40A suitable for 54Watt and 18Watt LED lights (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) as per the direction and entire satisfaction of Engineer in Charge.	4.000	Each		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
136.00	Supplying installation, testing and commissioning of out door type control panel suitable for 1 no. submersible pumps including wiring, cabling, cable tray control wiring etc. The control panel shall be compartalized for individual outgoing and shall be made out of 16 SWG CRC sheet in grey color and shall be floor mounted with following, Size 900(L)x900(H)x300(D). (L&T, ABB, C&S or equivalent .make) (a) 4 Pole MCCB 63A) 1.00 no. (b) 3 Pole MCB 16 Amps 4.00 nos. (c) SP MCB 6 Amp 4.00 nos. (d) DP MCB 12 Amp. 4.00 nos. (e) Single Phase Preventor 4.00 nos. (f) Volt selector switch 1.00 no. (g) Voltmeter 0-300 v 1.00 no. (h) Ammeter 0-30 amps 4.00 nos. (i) Overload relay 2.5- 5 Amp. - 4.00 nos. (j) TPN Power Contractors MNX-14- 4.00 nos. (k) On/off push Buttons - 4.00 set (l) Indicators - 4.00 set	1.000	Set		0.00	INR Zero Only
137.00	Supplying and fixing 3x 2.5 sqmm round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for filter pumps (a) 3 x 2.5 sq mm size.	50.000	Mtr		0.00	INR Zero Only
138.00	Supplying and fixing 4 x 2.5 sqmm submersible Round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for RGB LED Lights complete. (b) 4X2.5 sq mm size.	100.000	Mtr		0.00	INR Zero Only
139.00	Supplying and fixing 3x 6.0 sqmm round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for filter pumps (c) 3 x 6.0 sq mm size.	100.000	Mtr		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
140.00	Supplying and fixing PVC Medium Class conduit pipe for concealing of Cables make Kalinga/ AKG or equivalent/ISI Mark (d) 25 mm size.	100.000	Mtr		0.00	INR Zero Only
141.00	Supplying and Making water Proof joint of underwater cables for submersible cable complete as required.	58.000	Nos.		0.00	INR Zero Only
142.00	Supplying and 50mm dia. Debris Collection Stainers in Stainless Steel 304 grade complete as required.	4.000	Nos.		0.00	INR Zero Only
143.10	Supplying and Fixing of UPVC pipes (10 Kg/cm ²) of make supreme / Prince or equivalent confirming to IS 4985:2000 including all UPVC fitting tested to a test pressure of 10 Kg/cm ² i/c jointing with good quality solvent of following sizes. All fixing to be done to the entire satisfaction and sample approved by Engineer-incharge. 63 mm OD Pipe	36.000	Mtr		0.00	INR Zero Only
143.20	50 mm OD Pipe	24.000	Mtr		0.00	INR Zero Only
144.00	Supplying and fixing of 50 mm dia CI Butterfly Valve of pressure rating PN1.6 with EPDM rubber lining matching flanges and accessories complete short pattern as required (Kirloskar/leader/Zoloto/Sant or equivalent) as per per the direction and entire satisfaction of Engineer in Charge.	4.000	No.		0.00	INR Zero Only
145.00	Supply and fixing of 50 mm dia Non return Valve and accessories complete. Make - Sant/Leader/HVI/Zoloto or equivalent	4.000	No.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
146.00	Supplying installation testing and commissioning of Single Phase horizontal monoset submersible Pump Set with Starter and totally enclosed water filled squirrel cage induction motor water lubricated with oil seals with sleeves and thrust bearing having all rotating parts dynamically balanced for silent operation Suitable for three phase 50 HZ AC supply as per direction, instruction and entire satisfaction of Engineer-in-charge. Motor Body : CI Pump Body : CI Make : Kirlosker/Crompton/CRI or equivalent Capacity : 2 HP Single Phase Discharge 11 LPS Head 8 Mtr Suction & Delivery 65x50mm	1.000	Set		0.00	INR Zero Only
147.00	Supplying and Fixing of TOTALLY ANTI-CORROSIVE Bobbin wound + Fibre Glass filter. Fitted with pressure gauge panel, manual air bleeder, water drain and emptying plug.fitted with collector arms and diffuser made from unplasticized PVC and polypropelene. Maximum working pressure : 2.5 kg/cm². Diameter : 900mm/36". Velocity 28 Cub mtr/Hr, cap. 31,200 Ltr/hr. Make - Emaux/ACL/Pentolex or equivalent	1.000	Nos.		0.00	INR Zero Only
148.00	Supplying and fixing of Granular sand media for sand Filter	600.000	Kg.		0.00	INR Zero Only
149.00	Supply and fixing of 50mm dia. Wall return jets for delivery line of sand filter inside waterbody as per direction, instruction and entire satisfaction of Engineer-in-charge.Make - Emaux/ACL/Pentair or equivalent	9.000	Nos.		0.00	INR Zero Only
150.00	Supply and fixing of Manifold made out of GI jindal B class or equivalent in size of 100mm Dia and 900 mm in Length complete as per the direction & entire satisfaction of Engineer in charge.	2.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
151.00	Supply and fixing of waterpond disinfection system/chlorine dosing system for delivery line of sand filter as per direction, instruction and entire satisfaction of Engineer-in-charge. Make - Emaux/ACL/Pentair or equivalent	1.000	Nos		0.00	INR Zero Only
152.00	Supplying and fixing of 40 mm dia Foam Jet Nozzle made out with gunmetal with chrome plated body, make - Color Design India/Wet design/Oase/H2O or equivalent and as per entire instruction, direction and satisfaction of Engineer-in-charge.	8.000	Set		0.00	INR Zero Only
153.00	Supplying and fixing of 40 mm dia Spout Jet Nozzle made out with gunmetal with chrome plated fixed inside elephant trunk, body, make - Color Design India/Wet design/Oase/H2O or equivalent and as per entire instruction, direction and satisfaction of Engineer-in-charge.	4.000	Set		0.00	INR Zero Only
154.00	Supplying and fixing of 50 mm dia diffusers for water overflow to bowls made out with stainless steel 304 grade body having size of 1 mtr. long. make - Color Design India/Wet design/Oase/H2O or equivalent and as per entire instruction, direction and satisfaction of Engineer-in-charge.	6.000	Set		0.00	INR Zero Only
155.00	Supplying and fixing of 40 mm dia header for Chhatri made out with stainless steel 304 grade body having size of 0.9 mtr. Long with water curtain nozzles 18 nos. make - Color Design India/Wet design/Oase/H2O or equivalent and as per entire instruction, direction and satisfaction of Engineer-in-charge.	4.000	Set		0.00	INR Zero Only
156.00	Supplying and Fixing of 40mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/Arch or equivalent) complete as per per the direction and entire satisfaction of Engineer in Charge	20.000	Nos.		0.00	INR Zero Only
157.00	Supplying and Fixing of 50mm dia. Gunmetal Ball Valve (Make Zoloto/Sant/Leader/Arch or equivalent) complete as per per the direction and entire satisfaction of Engineer in Charge	6.000	Nos.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
158.00	Supplying installation testing and commissioning of horizontal monoset submersible Pump Set with Starter and totally enclosed water filled squirrel cage induction motor water lubricated with oil seals with sleeves and thrust bearing having all rotating parts dynamically balanced for silent operation Suitable for three phase 50 HZ AC supply as per direction, instruction and entire satisfaction of Engineer-in-charge. Motor Body : CI Pump Body : CI Make : Kirlosker/Crompton/CRI or equivalent Capacity : 10 HP Three Phase Discharge 23 LPS Head 12 Mtr Suction & Delivery 100x100mm	4.000	Set		0.00	INR Zero Only
159.00	Supply & Fixing water proof high power LED lights 18x3=54 watts, single color warm white made out of stainless steel 304gr. suitable to be fitted with emitter type power LED's with all in one optical lens of 85% efficiency step tempered glass 8 mm with protection class of IP-68. (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) complete as per the direction & entire satisfaction of Engineer in charge.	12.000	Each		0.00	INR Zero Only
160.00	Supply & Fixing water proof high power LED lights 6x3=18 watts, single color warm white made out of stainless steel 304gr. suitable to be fitted with emitter type power LED's with all in one optical lens of 85% efficiency step tempered glass 8 mm with protection class of IP-68. (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) complete as per the direction & entire satisfaction of Engineer in charge.	80.000	Each		0.00	INR Zero Only
161.00	Supply & Fixing adjustable stainless stand (SS-304)/housing for LED lights with all accessories including nuts bolts complete as required for jet nozzle (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) etc complete as per the direction & entire satisfaction of Engineer in charge.	92.000	Each		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
162.00	Supply and fixing of Constant Voltage Driver (CVD) 40A suitable for 54Watt and 18Watt LED lights (Color Design India/Wet design/Oase/Wet design/Oase or equivalent) as per the direction and entire satisfaction of Engineer in Charge.	8.000	Each		0.00	INR Zero Only
163.00	Supplying installation, testing and commissioning of out door type control panel suitable for 1 no. submersible pumps including wiring, cabling, cable tray control wiring etc. The control panel shall be compartalized for individual outgoing and shall be made out of 16 SWG CRC sheet in grey color and shall be floor mounted with following, Size 1200(L)x1200(H)x300(D). (L&T, ABB, C&S or equivalent .make) (a) 4 Pole MCCB 160A 1.00 no. (b) 3 Pole MCB 63 Amps 4.00 nos. (c) SP MCB 6 Amp 4.00 nos. (d) DP MCB 20 Amp. 4.00 nos. (e) Single Phase Preventor 4.00 nos. (f) Volt selector switch 1.00 no. (g) Voltmeter 0-500 v 1.00 no. (h) Ammeter 0-30 amps 4.00 nos. (i) Overload relay 14- 23 Amp. - 4.00 nos. (j) TPN Power Contractors MNX-32- 12.00 nos. (k) On/off push Buttons - 4.00 set (l) Indicators - 4.00 set	1.000	Set		0.00	INR Zero Only
164.00	Supplying and fixing 3x 2.5 sqmm round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for filter pumps (a) 3 x 2.5 sq mm size.	50.000	Mtr		0.00	INR Zero Only
165.00	Supplying and fixing 4 x 2.5 sqmm submersible Round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for RGB LED Lights complete. (b) 4X2.5 sq mm size.	300.000	Mtr		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
166.00	Supplying and fixing 3x 6.0 sqmm round cables PVC insulated PVC sheathed copper conductor of make Polycab/Finolex/Havells or equivalent for filter pumps (c) 3 x 6.0 sq mm size.	400.000	Mtr		0.00	INR Zero Only
167.00	Supplying and fixing PVC Medium Class conduit pipe for concealing of Cables make Kalinga/ AKG or equivalent/ISI Mark (d) 25 mm size.	100.000	Mtr		0.00	INR Zero Only
168.00	Supplying and Making water Proof joint of underwater cables for submersible cable complete as required.	92.000	Nos.		0.00	INR Zero Only
169.00	Supplying and 100mm dia. Debris Collection Stainers in Stainless Steel 304 grade complete as required.	4.000	Nos.		0.00	INR Zero Only
170.10	Supplying and Fixing of UPVC pipes (10 Kgf/cm2) of make supreme / Prince or equivalent confirming to IS 4985:2000 including all UPVC fitting tested to a test pressure of 10 Kgf/sqcm i/c jointing with good quality solvent of following sizes. All fixing to be done to the entire satisfaction and sample approved by Engineer-incharge. 110 mm OD Pipe	48.000	Mtr		0.00	INR Zero Only
170.20	90 mm OD Pipe	12.000	Mtr		0.00	INR Zero Only
170.30	63 mm OD Pipe	18.000	Mtr		0.00	INR Zero Only
170.40	50 mm OD Pipe	24.000	Mtr		0.00	INR Zero Only
171.00	Supplying and fixing of 100 mm dia CI Butterfly Valve of pressure rating PN1.6 with EPDM rubber lining matching flanges and accessories complete short pattern as required (Kirloskar/leader/Zoloto/Sant or equivalent) as per per the direction and entire satisfaction of Engineer in Charge.	4.000	No.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
172.00	Supply and fixing of 100 mm dia Non return Valve and accessories complete. Make - Sant/Leader/HVI/Zoloto or equivalent	4.000	No.		0.00	INR Zero Only
173.00	Supplying installation testing and commissioning of Single Phase horizontal monoset submersible Pump Set with Starter and totally enclosed water filled squirrel cage induction motor water lubricated with oil seals with sleeves and thrust bearing having all rotating parts dynamically balanced for silent operation Suitable for three phase 50 HZ AC supply as per direction, instruction and entire satisfaction of Engineer-in-charge. Motor Body : CI Pump Body : CI Make : Kirlosker/Crompton/CRI or equivalent Capacity : 2 HP Single Phase Discharge 11 LPS Head 8 Mtr Suction & Delivery 65x50mm	1.000	Set		0.00	INR Zero Only
174.00	Supplying and Fixing of TOTALLY ANTI-CORROSIVE Bobbin wound + Fibre Glass filter. Fitted with pressure gauge panel, manual air bleeder, water drain and emptying plug.fitted with collector arms and diffuser made from unplasticized PVC and polypropelene. Maximum working pressure : 2.5 kg/cm ² . Diameter : 900mm/36". Velocity 28 Cub mtr/Hr, cap. 31,200 Ltr/hr. Make - Emaux/ACL/Pentolex or equivalent	1.000	Nos.		0.00	INR Zero Only
175.00	Supplying and fixing of Granular sand media for sand Filter	600.000	Kg.		0.00	INR Zero Only
176.00	Supply and fixing of 50mm dia. Wall return jets for delivery line of sand filter inside waterbody as per direction, instruction and entire satisfaction of Engineer-in-charge. Make - Emaux/ACL/Pentair or equivalent	9.000	Nos.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
177.00	Supply and fixing of Manifold made out of GI jindal B class in size of 150mm Dia and 1000 mm in Length complete as per the direction & entire satisfaction of Engineer in charge.	1.000	Nos		0.00	INR Zero Only
178.00	Supply and fixing of waterpond disinfection system/chlorine dosing system for delivery line of sand filter as per direction, instruction and entire satisfaction of Engineer-in-charge. Make - Emaux/ACL/Pentair or equivalent	1.000	Nos		0.00	INR Zero Only
179.00	Supply , Installation testing and Commissioning of 24V CE/BIS certified IP67 flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. Having 60° beam angle, side view . CRI 80.Water & UV resistant flexible linear LED luminaire . Having atleast 10W/mtr and 180lm/mtr ,Complete with power supply , connectors ,end caps complete in all respects as per Architectural design requirement .	120.000	Mtr		0.00	INR Zero Only
180.00	Supply , Installation testing and Commissioning of 24V IP67 CE /BIS certified flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. CRI 80.Water & UV resistant flexible linear LED luminaire in up to 5 m length in polyurethane encapsulation and with 200 mm IP67 mini connectors on both ends. Having atleast 10W/mtr and 118 lm/W,Complete with power supply, connectors end caps complete in all respects , as per Architectural design requirement .	70.000	Mtr		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
181.00	Supply , installation testing and commissioning of IP66, CE/BIS certified IK06 Floor , wall- and ceiling-mounted recessed luminaire intended for use with LED light sources. Comprising body and installation frame casing .Extruded aluminium body closed at the top by a transparent or anti-slip glass screen secured with silicone; with die-cast aluminium end caps complete with silicone seals; aluminium outer casing with techno-polymer caps. Having wattage and lumens upto 6W and 570 lm, wall grazing .Complete with power supply , complete in all respects as per Architectural design requirement . Length :-528mm .	45.000	Nos		0.00	INR Zero Only
182.00	Supply , Installation testing and Commissioning of IP66 CE/ BIS certified ,IK07 Direct light luminaire intended for use with metal halide, sodium vapour and halogen light sources . Wall, ceiling and floor , pole installation using bracket .Bracket in extruded aluminium with screen-printed graduated scale to facilitate aiming operations.Internal gaskets water-sealed with silicone. Having wattage and lumens upto 4-5W and 320 lm .Complete with power supply complete in all respects , as per Architectural design requirement .	45.000	Nos		0.00	INR Zero Only
183.00	Supply, Installation testing and commissioning of IP67 CE/BIS certified adjustable inground luminarie made up of die-casting grey powder coated aluminium, corrosion resistance with low copper content.Hard chromeplated stainless steel 316 grade front ring.IP68 PG-11 cable gland. Having wattage upto 14W .Complete in all respects as per Architectural design requirement.	40.000	Nos		0.00	INR Zero Only
184.00	Supply Installation testing and commissioning of 24V DC CE/BIS certified high encapsulated linear light IP68 protected , 3M self adhesive tape included. Homogeneous and dot free illumination in very low installation depths,UV protected, . Complete with power supply and water proof connectors complete in all respects as per Architectural design requirement .Having wattage upto 6W / mtr ,200lm/mtr	12.000	Mtr		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
185.00	Supply , Installation testing and Commissioning of 24V CE/BIS certified IP67 flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. Having 60° beam angle, side view . CRI 80.Water & UV resistant flexible linear LED luminaire . Having atleast 10W/mtr and 180lm/mtr ,Complete with power supply , connectors ,end caps complete in all respects .As per Architectural design requirement .	35.000	Mtr		0.00	INR Zero Only
186.00	Supply, Installation testing and commissioning of High efficiency IP68 CE/BIS certified underwater LED spot light for illumination of water features and fountains revealing underwater architecture.Complete housing made of marine grade stainless steel #316 .Recommended installation depth upto 1 metre below the water surface.Having 6W LED . Complete with all respects . As per Architectural design.requirement.	23.000	Nos		0.00	INR Zero Only
187.00	Supply, Installation testing and Commissioning of 6W CE/BIS certified IP65 safety class 1 having integrated power supply hardly construction luminarie . The luminaire comes with a luminous flux of 401 lm(at 3000K) and beam angle of 15deg/ 25deg/ 40deg.The landscape luminarie should have bracket arrangement and swivel range +70/20 in the horizontal direction Finish to be pure polyester powder coated as per architect color scheme .Complete in all respects as per Architectural design requirement.	10.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
188.00	Supply , installation testing and commissioning of CE /BIS certiified IP66 , IK07 pole mounted LED light to highlight the statue from the pole . Optical compartment and front frame in die -cast material , transparent tempered sodium calcium safety glass, secured to frame with silicone . Bracket in extruded aluminium with screen printes graduated sacle to faciliate aiming operations .All external screws to be in stainless steel . The fixture should have snoot accessories with good aiming . Having atleast wattage 16W , 2500lm complete in all respect as per Architectural design requirement.	4.000	Nos		0.00	INR Zero Only
189.00	Supply , installation testing and commissioning of flat lighting poles having height of 6mtr .Coated with epoxy zinc phosphate primer and finished using environmentally stable polyurethane based paint as per Architectural design requirement.	2.000	Nos		0.00	INR Zero Only
190.00	Supply, Installation testing and commissioning of IP67 CE/BIS certified adjustable inground luminarie made up of die-casting grey powder coated aluminium, corrosion resistance with low copper content.Hard chromeplated stainless steel 316 grade front ring.IP68 PG-11 cable gland. Having wattage upto 14W .Complete in all respects as per Architectural design requirement.	38.000	Nos		0.00	INR Zero Only
191.00	Supply , Installation testing and Commissioning of 24V CE /BIS certified IP67 flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. CRI 80.Water & UV resistant flexible linear LED luminaire in up to 5 m length in polyurethane encapsulation and with IP67 mini connectors on both ends. Having wattage & lumnes upto 10W/mtr and 118 lm/W. Complete with power supply , connectors and other accessories complete in all respects ,as per Architectural design requirement .Length 150mm.	32.000	Mtr.		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
192.00	Supply, Installation testing and Commissioning of 12W CE / BIS certified IP65 safety class 1 having integrated power supply hardly construction luminarie . The luminaire comes with a luminous flux of 986 lm(at 3000K) and beam angle of 15deg/ 25deg/ 40deg. The landscape luminarie should have bracket arrangement and swivel range +70/20 in the horizontal direction Finish to be pure polyester powder coated as per architect color scheme . Complete in all respects as per Architectural design requirement.	76.000	Nos		0.00	INR Zero Only
193.00	Supply, Installation testing and commissioning of a decorative LED bollards CE/BIS certified designed to provide soft, uniform light. These luminaries offer shielded glare free illumination of ground surface and are perfect for illuminating entrances, footpaths as well as garden and landscape architecture. Luminaire body made of rectangular extruded aluminium tube with top SS sheet and non corrosive SS fasteners Having wattage upto 12W height 1 mtr complete in all respects as per Architectural design requirement.	20.000	Nos		0.00	INR Zero Only
194.00	Supply Installation testing and commissioning of Outdoor LED luminarie CE/BIS certified IP66 surface /wall mounted consisting of screen and supporting base PMMA screen, die-cast Aluminium supporting base, stainless steel plate for fixing compatable with lighting management system and mounting screws of stainless steel. Complete with power supply and water proof connectors. Complete in all respects as per Architectural design requirement. all and surface-mounted luminaire with 3000K LED,3W having lumnes upto 320lm, 180° blade optic.	37.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
195.00	Supply , Installation testing and Commissioning of 24V CE/BIS certified IP67 flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. CRI 80.Water & UV resistant flexible linear LED luminaire in up to 5 m length in polyurethane encapsulation and with IP67 mini connectors on both ends. Having wattage & lumnes upto 10W/mtr and 118 lm/W. Complete with power supply , connectors and other accessories complete in all respects ,as per Architectural design requirement .Length 150mm.	42.000	Mtr.		0.00	INR Zero Only
196.00	Supply, Installation testing and commissioning of High efficiency IP68 CE/BIS certified underwater LED spot light for illumination of water features and fountains revealing underwater architecture.Complete housing made of marine grade stainless steel #316 .Recommended installation depth upto 1 metre below the water surface.Having 6W LED . Complete with all respects . As per Architectural design.requirement.	23.000	Nos		0.00	INR Zero Only
197.00	Supply , Installation testing and Commissioning of 24V CE/BIS certified IP67 flexible Linear strip with reflective, white surface and 3M adhesive tape on the back. Having 60° beam angle, side view . CRI 80.Water & UV resistant flexible linear LED luminaire. Having atleast 10W/mtr and 180lm/mtr ,Complete with power supply , connectors, end caps complete in all respects .As per Architectural design requirement .	47.000	Mtr		0.00	INR Zero Only
198.00	Supply, Installation testing and Commissioning of 6W CE/BIS certified IP65 safety class-1 having integrated power supply hardly construction luminarie . The luminaire comes with a luminous flux of 401 lm(at 3000K) and beam angle of 15deg/ 25deg/ 40deg.The landscape luminarie should have bracket arrangement and swivel range +70/20 in the horizontal direction Finish to be pure polyester powder coated as per architect color scheme .Complete in all respects as per Architectural design requirement.	13.000	Nos		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
199.00	Supply, Installation testing and commissioning of IP67 CE/BIS certified adjustable inground luminarie made up of die-casting grey powder coated aluminium, corrosion resistance with low copper content.Hard chromeplated stainless steel 316 grade front ring.IP68 PG-11 cable gland. Having wattage upto 14W .Complete in all respects as per Architectural design requirement.	12.000	Nos		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				