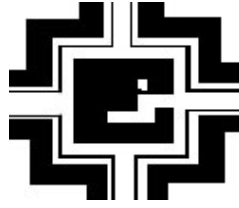


JAIPUR DEVELOPMENT AUTHORITY



Tender Document

For

Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work “Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.

Cost: - Rs. 35.99 Lacs

NIT No.- 07/2021-22

Due on: 27.12.2021

**Executive Engineer (PHE-I)
Jaipur Development Authority
Jaipur**

जयपुर विकास प्राधिकरण, जयपुर

राम किशोर व्यास भवन, कमरा नं. 135, प्रथम-तल, मुख्य भवन,
इन्दिरा सर्किल जवाहर लाल नेहरू मार्ग, जयपुर-302004

क्रमांक जविप्रा/अधि.अभि. (पीएचई- I)/2021-22/D-492

दिनांक : 09.12.2021

निविदा सूचना

निविदा सूचना सं० अधि. अभि. (पीएचई- I)/07/2021-22

जयपुर विकास प्राधिकरण द्वारा "Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur." जिसकी अनुमानित लागत रु 35.99 लाख के लिए ऑनलाईन बिड्स दिनांक 27.12.2021 को सायं 6:00 बजे तक आमन्त्रित की जाती है। निविदा बोली का ऑनलाईन आवेदन व भुगतान जविप्रा पोर्टल पर करने की अन्तिम तिथि 27.12.2021 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।

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

1. निविदा दाता 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 ऑनलाईन जमा करनी होगी।
2. ऑनलाईन निविदा प्रस्तुत करने के लिए निविदा दाताओं का राजस्थान सरकार के ई-प्राक्यूमेंट पोर्टल www.eproc.rajasthan.gov.in पर पंजीकृत हो।

(एम.एल. जॉगिड)
अधिशायी अभियंता (पीएचई- I)
जविप्रा, जयपुर।

JAIPUR DEVELOPMENT AUTHORITY
Room No. 135, Main Building, First Floor, Ram Kishore Vyas Bhavan,
Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004
Telephone: +91-141-2569696 E.mail: zephe1jda@yahoo.in

No: - JDA/EE/PHE-I/2021-22/D-492

Dated: 09.12.2021

NOTICE INVITING BID
NIB No. : JDA/EE (PHE-I)/07/2021-22

Online Bids are invited up-to 6.00 PM of 27.12.2021 for “Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work “Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.” Estimated cost of 35.99 Lacs. The last date for Applying Bid and making online payment on JDA portal is up-to 6.00 PM of 27.12.2021. Details may be seen in the Bidding Document at our office or the 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.jda.urban.rajasthan.gov.in, For participating in the Bid, the Bidder has to apply for the Bid and pay the Bidding 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.

(M.L. Jangid)
Executive Engineer (PHE-I)
JDA, Jaipur

JAIPUR DEVELOPMENT AUTHORITY

Room No. 135, Main Building, First Floor, Ram Kishore Vyas Bhavan, Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004

Telephone: +91-141-2569696 E.mail: zephe1jda@yahoo.in

Bid No: - JDA/EE/PHE-I/2021-22/D-492

Dated: 09.12.2021

NOTICE INVITING BID

NIB No. : JDA/EE(PHE-I)/07/2021-22

Name & Address of the Procuring Entity	➤ Name: Executive Engineer (PHE-I), Jaipur Development Authority Address: Room No. 135, Main Building, First Floor, Ram Kishore Vyas Bhavan, Indira Circle, JawaharLal Nehru Marg, Jaipur – 302 004 Telephone: +91-141-2569696 E.mail: zephe1jda@yahoo.in
Subject Matter of Procurement	➤ Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur. ➤ Job No. : 459/2013-14
Bid Procedure	➤ Single Stage Method Tender (eg. Single-stage Two part (envelope) open competitive) eBid procedure at http://eproc.rajasthan.gov.in
Bid Evaluation Criteria (Selection Method)	➤ Single Stage 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 participation 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. 500/- (Rupees Five Hundred only) ○ RISL Processing Fee: Rs. 1000/- (Rupees One Thousand only) Requisite Bid Security Deposit
Estimated Procurement Cost	➤ INR 35,99,000.00/- (Rupees Thirty Five Lacs Ninety Nine Thousand Only)
Bid Security Deposit	➤ All the eligible contractors should be submit bid security declaration on non-judicial stamp of Rs. 50/- as per order issued for finance department (GF&AR) GoR dated 23.12.2020 (Declaration attached with tender document) in lies of Bid Security. It is mandatory to submit bid security bid security declaration in prescribed format along with the bid. ➤ Eligibility: Bidder who is A and AA class contractor registered in other Government Department and Bidder registered as contractor AA, A, B, C & D in JDA OR ➤ Bidder Registered in Govt. of India, State Government Department/Local Body/Board/Development Authority & Union Territory shall only be considered.
Date/Time/Place of Pre-Bid	➤ NA
Applying Bid and making Online Payment on JDA portal (www.jda.urban.rajasthan.gov.in)	➤ Start Date: 13.12.2021 at 9.30 AM ➤ End Date: 27.12.2021 at 06.00 PM
Bid Submission on e-Procurement Portal of GOR	➤ Start Date: 13.12.2021 at 9.30 AM ➤ End Date: 27.12.2021 at 06.00 PM
Date/Time/Place of Technical Bid Opening	➤ 28.12.2021 at 11.00 AM

Date/ Time/ Place of Financial Bid Opening	➤ Will be intimated later to the Technically qualified bidders in case of Two Bid
Bid Validity	➤ 120 days from the bid submission deadline
Completion period of work	➤ 04 Months
* Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:	
A. Payment Options: Option-1: Bank Guarantee (BG) against EMD / Bid Security Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through Payment Gateway only, option to make balance payment through EFT (RTGS/NEFT) will not be available. If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available. Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS) If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from any Bank any Branch using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 48 hours prior to closing date of bid participation. Option-3: Payment Gateway (Aggregator) The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from anywhere any time till the closing date & time of bid participation. B. Bid Participation Receipt After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR. - In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis. - In case complete payment is done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis. - In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) "Bid Participation Receipt" will be available on Login of Bidder on JDA portal.	
Note: Bidder (authorised signatory) shall submit their offer on-line in Electronic formats both for technical and financial proposal. In case, any of the bidders fails to pay the Tender Fee, BSD, and RISL Processing Fee, online (subject to confirmation), its Bid shall not be accepted. 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. TCS, Safecrypt, 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). 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; choking of web site due to heavy load or any other unforeseen problems. Bidders are also advised to refer "Bidders Manual Kit" available at eProc website for further details about the e-Tendering process. Training for the bidders on the usage of e-Tendering System (eProcurement) 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, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids. 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. Procurement entity disclaims any factual/ or other errors in the bidding document (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. The provisions of RTPPA Act 2012 and Rules 2013 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.	

(M.L. Jangid)
Executive Engineer (PHE-I)
JDA, Jaipur

Process for Participation & Depositing Payment Online

JAIPUR DEVELOPMENT AUTHORITY, has decided to receive Bidding document fee, RISL Processing Fee and Bid Security Deposit (BSD) through online mode only for which the bidder has to get registered himself on JDA portal www.jaipurjda.org.

To participate in the bid, bidder has to be:

1. Registered on JDA website www.jaipurjda.org (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 on line 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.jaipurjda.org under [eServices](#)>>JDA Tender

Section A-1

Instructions to Bidders

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

OFFICE OF THE EXECUTIVE ENGINEER PHE-I

SCHEDULE AND SPECIFICATIONS

Name of work:- Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.

1. NIB No. :- E.E.(PHE-I)/07/2021-22
2. Bid cost :- Rs. 35.99 Lacs
3. Cost of the tender documents :- Rs 500/-
4. Earnest Money :- All the eligible contractors should be submit bid security declaration on non-judicial stamp of Rs. 50/- as per order issued for finance department (GF&AR) GoR dated 23.12.2020 (Declaration attached with tender document) in lies of Bid Security. It is mandatory to submit bid security bid security declaration in prescribed format along with the bid.
Eligibility: Bidder who is A and AA class contractor registered in other Government Department and Bidder registered as contractor AA, A, B, C & D in JDA
OR
Bidder Registered in Govt. of India, State Government Department/Local Body/Board/Development Authority & Union Territory shall only be considered.
5. Download of tender documents :- 13.12.2021 to 27.12.2021 (upto 6.00 PM)
6. Date & Time of upload of tenders :- 27.12.2021 (upto 6.00 P.M.)
7. Date & Time of Opening tenders :- 28.12.2021 at 11.00 A.M.
8. Completion period of work :- 04 Months.

SCHEDULE 'A' : INFORMATION USEFUL FOR THE CONTRACTORS:

The tenderer should see the site and fully understand the condition of the site before tendering & should include all lead, lifts etc. for the material in his item rate quoted /percentage to be quoted over the rates as given in the schedule 'G' Then work shall be carried out in accordance with the Rajasthan PWD, PHED, RSPCB/CPCB and JDA detailed specification and to the entire satisfaction of the Engineer Incharge of the work.

Clause A: The bid will be opened only of those bidders:-

- The bidder must have required experience of working of similar nature of works in last five financial years including current year.
- The bidder should have completed/executed at least two STPs similar nature work in last five year (including current year, if opted by the bidder).
- Copy of work orders issued in this regards by Govt. of India, State Government Department/Local Body/Board/ Development Authority & Union Territory shall only be considered.
- Successful completion/execution Certificate issued in this regards by Govt. of India, State Government Department/Local Body/Board/Development Authority & Union Territory shall only be considered.
- Deposit proper bid security, processing fee, tender fee, GST registration, clearance certificate and copy of registration of contractor in required category are found to be in order. The Bid security, tender fee will be accepted through online payment only.

Note :- Bidder should read Carefully

Experience certificate for installation of OCEMS as per clause A of SCHEDULE 'A' :

INFORMATION USEFUL FOR THE CONTRACTORS must be uploaded in cover-1 along with GST Certificate, Registration Certificate, Tender Fee, RISL Fees etc. Failure to upload the requisite documents in envelope-1 shall lead to rejection of bid.

SCHEDULE 'B' : LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT:

The drawing may be seen in office of the undersigned.

SCHEDULE 'C' : LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR:

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

SCHEDULE 'D' : TEST OF THE MATERIALS :

The test of the material 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 standards and or the standards laid down in the detailed specification of the PHED. Proper quality control is required to be maintained by the Contractor, Qualified personnel as required under the contractor enlistments rules duly approved by the department shall have to be engaged at site by the contractor. The department 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' : SAMPLE OF THE MATERIALS :

The samples of the material to be used by the contractor shall be deposited 15 days in advance with the Engineer incharge and should get approved by him before use.

SCHEDULE 'F' : TIME OF COMPLETION :

The work should start within 15 days of issue of work order and complete within 04 months.

SCHEDULE 'G' : ATTACH SEPARATELY BASED ON BSR PWD JAIPUR:

SCHEDULE 'H' : Special condition Attached separately.

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

Annexure F : Payment mechanism for participating in tender: Office order D-399 dated 04.10.2016.

Annexure G : GST Circular for participating in tender: Office order D-172 dated 12.07.2017.

Signature of contractor,
With full address.

Executive Engineer (PHE-I),
JDA, Jaipur

TENDER FOR WORKS

I/We hereby tender for the execution for the Jaipur Development Authority, Jaipur of the work specified in the underwritten memorandum within the time specified in such memorandum at the rates, (in figure)% (as well as in words)quoted rate amount, entered in the schedule G in all respects in accordance with the specifications, designs, drawings and instructions in writing referred to in Rule I in all respects in accordance conditions 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** :
- (b) **Estimated cost** : **Rs. 35.99 Lacs**
- (c) **Earnest money** : All the eligible contractors should be submit bid security declaration on non-judicial stamp of Rs. 50/- as per order issued for finance department (GF&AR) GoR dated 23.12.2020 (Declaration attached with tender document) in lies of Bid Security. It is mandatory to submit bid security bid security declaration in prescribed format along with the bid.
Eligibility: Bidder who is A and AA class contractor registered in other Government Department and Bidder registered as contractor AA, A, B, C & D in JDA **Or**
Registration in Govt. of India, State Government Department/Local Body/Board/Development Authority & Union Territory shall only be considered.
- (d) **Security Deposit :**
- (i) "The security deposit @ 10% of the gross amount of the running bill shall be deducted from each running bill and shall be refunded as per rules on completion of the contract as per terms and conditions. However, the amount of security deposit deducted from running bills shall not be converted into any mode of securities like bank guarantee. FDR etc. The earned 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 10% 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 10% as above. However, in case during execution cost of works exceeds as shown at the time of depositing 10% as above, balance security deposit shall be deducted from the Running Account Bills."
- (ii) Bank Guarantee shall in all cases be payable at the headquarter of the Division or the nearest District Headquarters.
- (e) Time allowed for the completion of work (to be reckoned from the 10th day after the date of written order to commence the work) in **04 months**. Should this tender 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 here to and of the Notice Inviting Tender, or in default thereof, to forfeit and pay to the Governor of Rajasthan or his successors in office, the sum of money mentioned in the said conditions.

Validity of rates 120 days.

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 Governor of Rajasthan or his successor in office without prejudice to any other right or remedies of Governor of Rajasthan or 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 tender is hereby accepted by me on behalf of the Governor of Rajasthan

Date:

Executive Engineer (PHE-I)
JDA,Jaipur

Section A-2
General Conditions of Contract
(Appendix XI of PWF & AR. Govt. of Rajasthan
effective up to date shall be applicable)

Section A-3
Scope of work &
Special Conditions of Contract

SCHEDULE 'I'

Name of work:- *Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.*

Scope of work:-

1. Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.

SPECIAL CONDITIONS OF THE CONTRACT

CONTRACT

1.1 Type of Contract

The work described in this tender documents consist of Two parts;

- | | |
|----------|---|
| Part "A" | Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur including 1 year DLP/warranty.
Location: 1 MLD CETP Sahkar Marg. |
| Part "B" | Annual Maintenance contract for 2 nd year after warranty of 1 year. |

2.1 Third Party Inspection :

Pre dispatch inspection shall be carried out by EIC or his authorized representative. In addition to representative of JDA contractor has to arrange third party such as RITES, SGS, EIL or any other agency approved by Engineer In-charge for the inspection. All the charges towards lodging, boarding, to & fro for the deputed representative of JDA along with inspection charges for TPI agencies shall be borne by the contractor. The contractor should inform the JDA of the name of TPI agency finalized by him for the contract. The agency will be same for all items of supply in this contract requiring 3rd party inspection.

The manufacturer should be required to call for inspection to the agency under instructions of the Contractor and Engineer In Charge. The Engineer in Charge may depute a representative to witness the inspection. The inspection agency should furnish copies of Inspection Certificate to the manufacturer, Contractor and to the Engineer In Charge directly. All material tested and found satisfactory as per specifications shall be marked distinctly.

2.2 Cost for Inspection

The cost of inspection shall be borne by the contractor.

2.3 Approval of Material and Equipment

The fact that the Contractor has agreed to provide the material prescribed in the Tender Documents does not release him to ask for the final approval of the equipment and material to be used for the Work. The specifications and drawings of each item to be supplied shall be individually scrutinized and its conformity with the technical specifications and conformity with the latest standards of RSPCB / CPCB shall be verified by the Engineer In Charge.

Prior to ordering the equipments the Contractor has to supply the detailed specification, drawings, performance curves and data, operation instructions etc., to the Engineer In-Charge. If the Contractor has any doubts about the required specifications as prescribed in the Contract, he has to clarify them with the Engineer In Charge.

The procedure for the submission of documents, verification, re-submission if necessary and approval of these items is the same as that for the drawings, described in clause 2.3. If equipment or material which the Contractor submitted first is refused in the approval process he has to submit documents of such equipment which corresponds to the specifications of the Tender Documents and which is likely to be approved.

Only after approval of the material and equipment, the Contractor can place the order or start the manufacturing or purchasing procedures.

Two weeks prior to packing and shipping the Contractor must inform the Engineer In Charge when the material/equipment is ready for inspection and testing. At this date, the Contractor shall supply the results of all

manufacturer's own tests made during or after manufacturing and his own quality control certificates. The Engineer In Charge will decide whether he or his representative will inspect and test the material/ equipment or whether he will approve it on the basis of the supplied documentation.

The Engineer In Charge will provide an authorization for packing and shipment after inspection and/or approval of the material/equipment.

If the Contractor packs and ships material/ equipment without approval or authorization of the Engineer In Charge-in-Charge, it can be refused if it is not matching with the specifications of the Contract. All costs resulting from this are to be borne by the Contractor. The Contractor has then to provide the material/ equipment, which is matching with the Contract.

COMPLETION OF THE WORK

3.1 Time for completion

The whole of the work, including mobilization, reconnaissance, construction, installation, testing, commissioning and trial runs, and demobilization has to be completed within a period of 6 months calculated from the commencement date, which is 10 days after the written order to commence the Work.

3.2 Completion of work and fully commissioning

Once the entire system has been successfully tested and commissioned, and removal of all visible defects to the satisfaction of Engineer In Charge-in-Charge, the work shall be treated as "Completed".

Unless otherwise provided in the contract, after the successful completion Engineer In Charge shall issue a certificate of "Completion of Work". The date of Certificate notifying "Completion of Work" will be used for the final payment as per clause 6 and 7 of General Conditions of Contract. AMC period shall commence after successful completion of DLP period of one year.

3.3 Defects liability period

The defect liability period shall be of 1 year, from the date of the completion. The contractor shall be responsible for satisfactory performance of the work under all design and operation for the duration of the defects liability period. Except for damage due to unprecedented natural calamities. The release of SD amount shall be as per JDA office order no. JDA/Ex.En. (TA to Dir. Eng.-1)/2016/D-29 dated 11.03.16 (Annexure 'E').

3.4.1 Cost of water and electricity for testing

Deleted

4 As-Built Drawings

The submission of the as-built drawings for the equipment is the precondition for the final payment. The final drawings shall be submitted in one reproducible set and 3 copies on linen bound in an album of an approved size.

5 Progress Of Work

All components of works shall ensure a logical sequence of supply, installation, testing, and commissioning. If any supply of a material is made, not in conformity to the logical sequencing of the work component, no payments will be entitled against such supplies and installations.

6 Documents Required For Payment:

The contractor shall submit the following documents in duplicate along with the invoice/bill.

- (i) Invoice indicating details of equipment's, material manufactured, supplied and installed or work carried out, supply value of such material or equipment or value of such work carried out and amount claimed.
- (ii) Inspection reports/ test reports/ reports certifying completion of activity with acceptable results.
- (iii) Report/certificate of inspections /tests carried out by the supplier of the contractor or by the contractor himself.
- (iv) Any other such details/documents as may be reasonably specified by the Engineer In Charge-in-Charge from time to time during execution of the contract.
- (v) Certificates, as prescribed in ITB.
- (vi) Other documents required by the Engineer In Charge-in-charge.

7 Payment Terms

80 % on installation of system

20 % on commissioning of the system

8. Defects liability period

The defect liability period shall be of 1 year, from the date of the completion. The Contractor shall be responsible for satisfactory performance of the work under all design and operation conditions for the duration of the defects liability period, except for damages due to unprecedented natural calamities.

1. Refund of Performance Guarantee & Security Deposit

The Security Deposit (SD) and Performance Guaranty (PG) shall be refunded after successfully completion of defect liability period of 1 years. The 20 % amount of SD shall be released after completion of 1st year of DLP, other 20 % amount of SD shall be released after completion of 2nd year of AMC and remaining 60 % amount of SD shall be released after completion of 3rd year of AMC. (As per JDA Office order no. JDA/EE(TA to Dir.-Engg-I)/2016/D-29 dated 11.03.2016).

2. Price Variation Clause:

No Price Escalation shall be payable in work.

COMMISSIONS AND CORRECTIONS

If there is any typographical error or otherwise in the 'G' Schedule. The nomenclature and the rates as given in the relevant JDA BSR-2016 and JDA approved items/rates on which schedule 'G' is based, shall prevail.

The above conditions may be read very carefully and adhered strictly.

Signature of Contractor

**Executive Engineer (PHE-I)
JDA, Jaipur**

Brief Scope Of Work & Supply

The salient features of the project are mentioned below:

1. Design, manufacture, fabrication, assembly, pre-shipment testing at manufacture's works premises, proper packing for transportation, custom/port clearance (wherever applicable), delivery at Plant site, receipt unloading, storage, transit cum storage insurance. Supply and Installation, Calibration, testing , commissioning, interconnection with related plant and equipment and putting the EQMS together with all accessories, auxiliaries and associated equipment.
2. A dedicated graphic page shall be developed for displaying all data in prescribed format for online monitoring.
3. Bidder shall ensure to supply all necessary software for editing, new tag addition etc. to JDA with no extra price implication.
4. Establishing communication with CPCB & RSPCB, JDA server and integration with the respective servers to meet all statutory requirements.
5. Supply & laying of interconnecting cables in conduits and termination in the newly installed cabinets/panels with analyzer and server systems to be installed, will be in the scope of the bidder.
6. Installation, integration, configuration as per the requirement of JDA and commissioning of supplied EQMS system in totality within the stipulated time period.
7. No hardware from any existing system shall be used in the new system, it shall be vendor's responsibility to envisage and supply all the hardware required to ensure the complete functionality of the system.
8. During pre-mobilizing Meeting, Vendor shall visit the site and collect all required data for successful installation and commissioning. Vendor shall take approval for all the bought out items from Engineer In Charge at the time of kick-off meeting.
9. Lodging, Boarding to and fro travel expenses, local conveyance and other miscellaneous travel and living expenses of inspection officials/TPI shall be in vendor's scope.
10. Vendor to depute sufficient manpower including erection and commissioning engineers, technicians, electricians, etc. with necessary tools and tackles to complete the job in minimum possible time. Intimation for starting the job shall be communicated to JDA.
11. Distribution of Power supply and stepping up or down of Power as per system requirement shall be in vendor's scope JDA shall provide 220V AC power supply at one place for the system. Vendor shall provide current consumption details for the new system and provide redundant power supplies with reverse current protection diode as required. UPS required for uninterrupted power supply will be arranged by vendor.
12. Bidder shall supply mandatory spares like pH Electrode, buffer solution (for one year operation), standard solution (one year operation), one number of all installed cards, proprietary cable, along with offered system.
13. Bidder shall also submit price list including for all spare parts and consumables along with bid.
14. Prices as submitted in Jump sum shall not be evaluated, however bid received without the detailed of each item pricelist as above shall be summarily rejected.
15. EQMS Should Have independent 4-20 mA output of reach measure parameters. Additionally modbus and Ethernet communications capability shall also be available. Provision must also be kept for addition of any future parameters into the system that may be incorporated into the EQMS, AAQMS & CEMS (EQMS-Effluent Quality

Monitoring System, AAQMS-Ambient Air Quality Monitoring System, CEMS Continuous Emission Monitoring System).

16. Vendor shall arrange own wireless transmission through Sim cards of mobile network operators. Bidder to use the same for data transmission upto local server kept at JDA/CPCB/RSPCB Office. However, the hardware components required for enabling connectivity as well as ensuring that transmission of all CEMS, AAQMS and Treated Effluent flow data along with that of EQMS to the main server of JDA Head Office Control Room shall be in Bidder's scope.
17. The offered system must also be compatible with other forms of data transmission such Broadband/Dongle as provided by ISP in case of complete breakdown/inaccessibility of LAN for data transmission.
18. JDA shall interface data from any other analyzer data as required by pollution control board to the server supplied by bidder which is installed at JDA, Head Office Building. Bidder shall transmit the same to RSPCB and CPCB.
19. Bidder shall submit complete Bill of Material (BOM), system architecture and technical literature of offered system along with the bid.
20. Bidder shall submit all As-Built documentation pertaining to the bid and shall also impart operational and maintenance training to JDA personnel.
21. Any other work not defined under the above but which are required for the completion of the system shall be in the scope of the bidder.
22. At least one registered office of manufacture shall be located in India.
23. Any arrangement related to installation of OCEMS such as civil/mechanical/fabrication cost etc. required for proper installation shall be on bidders part.

Executive Engineer (PHE-I)
JDA, Jaipur

Detailed Scope of Supply and Work :-

The bidder's scope includes Design, Manufacture, Supply, Installation, Integration, Testing, Commissioning of a offered complete analyzer system as per System Specifications contained in guidelines of CPCB for online continuous monitoring system for effluent and in the subsequent sections of this document, for the purpose intended to and does include all the parts/components, may or may not listed herewith, for smooth operation, maintenance, satisfactory performance of the system and does not limit only to the mentioned requirements in this document, but includes all that is required for ensuring the delivery of the system totally capable of providing the required functions and quality. It will be single point responsibility of bidder to supply, install, commission the analyzer and communication setup up to JDA, RSPCB and CPCB. The job shall be considered as complete when correct data is displayed at CPCB, JDA and RSPCB. All hardware, license, media and software for establishing seamless communication shall be in the scope of bidder.

Basic requirement of an efficient online Effluent Quality Monitoring System (EQMS)

The major pre-requisites of efficient online analyzers are:

1. Should be capable of operating unattended over prolonged period of time.
2. Should produce analytically valid results with precision and repeatability.
3. The instrument/analyzer should be robust and rugged, for optimal operation under extreme environmental conditions, while maintaining its calibrated status.
4. The analyzer should have inbuilt features for automatic water matrix change adaption.
5. The instrument/analyzer should have on-board library of calibration spectra's for different industrial matrices with provision of accumulating further calibration matrices.
6. Should have data validation facility with features to transmit raw and validated data to central server.
7. Should have Remote system access from central server provisioning log file access.
8. Should have provision for Multi-server data transmission from each station without intermediate PC or plant server.
9. Should have provision to send system alarm & SMS to central server in case any changes made in configuration or calibration
10. Should have provision to record all operation information in log file.
11. For each parameter there should be provision for Independent analysis, validation, calibration & data transmission
12. Must have provision of a system memory (non-volatile) to record data for at-least one year of continuous operation.
13. Should have provision of Plant level data viewing and retrieval with selection of Ethernet, wireless, Modbus & USB.
14. The correlation/interpretation factor for estimating COD and BOD using UV-Visible Absorption Technique shall be regularly authenticated/validated and details provided.
15. Record of calibration and validation should be available on real time basis on central server from each location parameter.
16. Record of online diagnostic features including sensor status should be available in database for user friendly maintenance.
17. Expandable program to calculate parameter load daily, weekly or monthly basis for future evaluation with flow rate signal input.
18. Should have facility to send SMS and email/mail alerts to designated JDA officials for any deviation from permissible effluent discharge standards limits. The facility to be provided for updating mobile No./email for any change in contact details/Mobile No./email due to transfer, retirement etc.

19. Must have low operation and maintenance requirements with low chemical consumption and recurring cost of consumables and spares.

Reporting:

1. The Real Time (RT) Effluent Quality Monitoring System (EQMS) suppliers have to provide central server at RSPCB and CPCB, JDA with latest software to view the data in graphical/ tabular format and also to compare the data features.
2. One minute data average must be transmitted/retrieved to servers every 15 minutes. In the event of transmission loss the time stamped data in the data logger memory must be transmitted to fill from the last transmission break with a stamp of time delay.
3. Two way communications, so that data from the system can be seen whenever desired and remote of controller/data logger can be taken to visualize the immediate status of the System.

Method of analysis to be considered:

1. pH: Electrode Method.
2. BOD: UV – Vis Spectro-photometry (Entire spectrum scanning) of wavelength range 200-720 nm.
3. COD: UV - Vis Spectro-photometry (Entire spectrum scanning) of wavelength range 200-720 nm.
4. TSS : UV – Vis Spectro-photometry (Single Wavelength).

Parameter accuracy: Allowed Variability as per CPCB guidelines.

The relative difference between online and laboratory measurements has to be between

1. pH accuracy $\pm 0.2\text{pH}$
2. TSS accuracy $\pm 5\%$ or CPCB guidelines
3. COD accuracy $\pm 5\%$ or CPCB guidelines
4. BOD accuracy $\pm 5\%$ or CPCB guidelines

System Validation

Online Instrument operation will be evaluated using the known buffers, traceable standards and laboratory techniques By validating sensors and probes with known standards such as KHP (potassium hydrogen phthalate) for COD. Formaz in equivalent standard for TSS, TDS & pH buffers have to be used to calculate a running variance of the measurements. When the variance is outside of the set points, this can be an indication the monitor requires calibration and service.

Instrument Calibration:

The following frequency has to be used for calibration of analyzer

1. pH - As specified by RSPCB/CPCB specifications.
2. COD - As specified by RSPCB/CPCB specifications.
3. BOD - As specified by RSPCB/CPCB specifications.
4. TSS - As specified by RSPCB/CPCB specifications.
5. Temperature – As specified by manufacturer whichever is earlier.

The software must keep all calibration data points in memory for interpretation of matrix change adaption.

Operation & maintenance.

Contractor has to submit a comprehensive O&M manual for carrying out systematic operation & maintenance. All the costs towards replacement/repair of the system including the cost of spare parts, Labour Charges, Consumables, Electrodes, Statutory fee etc. during the DLP and O&M period shall be borne by the contractor. Following minimum checks for the system shall be required :-

1. Weekly Check - GPS Transmission, System Diagnostic alarms.
2. Monthly Check - Sensors & system cleaning, data backup, Parameter Calibration as specified in calibration schedule.
3. Periodic Check - System validation with known standards, Laboratory & Online parameters Comparative.

Periodic calibration of the system as recommended by the manufacturer/regulating body/CPCB etc. whichever is earlier shall be got done by the contractor at his own cost. Electrical installation shall be in accordance with the latest prevailing standards/IER. Contractor has to submit Original Equipment Manufacturers (OEM) agreement for supply of spares for DLP and O&M period within 14 days from issuance of LOA.

Data Management:

Considering the heterogeneity of real time monitoring system industries are required to submit real time data through their respective instrument suppliers. This mechanism has helped in consolidating the data avoiding the complexity of different technologies and availability of monitored data in different data formats and at the same time involving the instrument suppliers in data transferring mechanism. The system enables two way communication required to manage such real time systems.

The basic functional capabilities of such software system shall include:-

1. The system should be capable of collecting data on real basis without any human intervention.
2. The data generation, data pick up, data transmission data integration at server and should be automatic.
3. The submitted data shall be available to the JDA, RSPCB and CPCB for immediate corrective action.
4. Raw data should be transmitted simultaneously to JDA, RSPCB and CPCB.
5. In case of delay in collection of data due to any reason, the data transmission should be marked delayed data and reports of delayed data should be displayed on the portal.
6. At no point of time, manual data handling should be permitted. Data validation should be permitted only through the administrator and data change recorded with date and time stampings
7. Configurations of the systems once set up (through remote procedure) and verified, should not be changed. In case any setting change is required it should be notified and recorded through the authorized representatives only.
8. The data submitted electronically shall be available to the data generator through internet, so that corrective action, if any, required due to submission of erroneous data can be initiated by the industry.
9. The software should be capable to verify the data correctness which means at any given point of time the regulatory authorities/data generator should be able to visualize the current data of any location's specific parameter.

Executive Engineer (PHE-I)
JDA, Jaipur

Specifications for Online water Monitoring System for Sewage water Treatment Plant :

1. FUNCTIONAL REQUIREMENT:

In compliance of CPCB guidelines Real time water quality monitoring system for Effluent Treatment Plants to measure Online Parameters BOD/COD/TSS/PH need to be installed at inlet and outlet point of 1 MLD CETP PHE Zone of JDA. The system should be user friendly that operates & analyze every minute (minimum interval) without any need of reagents, chemicals, consumables with low maintenance and calibration requirement.

Online multi-parametric pH, COD, BOD, and TSS are needed. The system should also have capability to show flow of effluent in the controller system. The system proposed should have adequate channels to accommodate above measurements along with capacity to display extra sensors/parameters to future-proof the system, accordingly transmit the measured data of effluent to RSPCB and to CPCB as per CPCB guidelines.

Online monitoring system should be based on UV visible full wavelength Spectrometry System Measurement Principle: Measurement of full wave lengths spectra (UV-VIS Spectrometry) from 200–720 nm.

2. BASIC REQUIREMENT OF EFFICIENT ONLINE ANALYSER:

The major prerequisites of efficient online analyser are as follows: -

- Should be capable of operating unattended over prolonged period of time.
- Should produce analytically valid results with precision and repeatability.
- The instrument/analyzer should be robust and rugged, for optimal operation under extreme environmental conditions, which maintaining its calibrated status.
- The analyzer should have inbuilt features for automatic water matrix change adaption.
- The instrument / analyzer should have onboard library of calibration spectra's for different industrial matrices with provision of accumulating further calibration matrices.
- Should have data validation facility with features to transmit raw and validated data to central server.
- Should have Remote system access from central server provisioning log file access.
- Should have provision for Multi-server data transmission from each station without intermediate PC or plant server.
- Should have provision to send system alarm to central server in case any changes made in configuration or calibration.
- Should have provision to record all operation information in log file.
- For each parameter there should provision for independent analysis, validation, calibration and data transmission.
- Must have provision of a system memory (non-volatile) to record data for at- least one year of continuous operation.
- Should have provision of plant level data viewing and retrieval with selection of Ethernet, wireless, Modbus and USB.

- The correlation / interpretations factor for estimating COD and BOD using.

UV-Visible Absorption Technique shall be regularly authenticated / validated and details provided.

- Record of calibration and validation should be available on real time basis on central server from each location / parameter.
- Record of online diagnostic features including sensor status should be available in database for user friendly maintenance.
- Expandable program to calculate parameter load daily, weekly or monthly basis for future evaluation with flow rate signal input.
- Must have low operation and maintenance requirements with low chemical consumption and recurring cost of consumables' and spares.

3. Technical Detail of Multi-Parameter Controller System

It should be equipped with the following minimum features:

- USB-interface for data transfer, upgrading software etc.
- Backup controller function to increase reliability (in terminal mode)
- Control unit with keys and toggle switch for the quick selection of software

Functions

- With large graphic display with backlight
- With integrated backup controller function
- Input voltage 90 - 260 VAC 50 Hz. Inbuilt arrangement for voltage Fluctuation 90 - 260 VAC 50 Hz.

- Line power consumption should be minimum (to be defined by the bidder).
- Max. power required (to be defined by the bidder).
- 6 galvanically separated current outputs (0/4-20 mA) that can be assigned

Arbitrarily

- With ID recognition
- High EMC interference immunity
- Integrated lightning protection

- Should have the latest features of highly advanced Multi-Parameter Controller having capability of handling at least 18 sensors in a single controller configuration and more as and when required.
- Should have the capability to be operated as Controller (having programmability feature) or just a terminal (that can display the data without any way to make changes).
- Display should be with improved reading precision through special backlit graphic display
- Easy User Intuitive operating keys: including keys for functions such as: Measurement, calibration, set/system settings, additional keys for: confirmation/switching menu O.K. (OK), Escape (ESC) etc.
- Internal integrated Data logger with minimum data memory for up to 500,000 data sets
- The Controller should be able to power all the sensors and terminals or accessories attached to it without having to need any additional power sources in the system for increased protection against lightening and possible electromagnetic interference.
- The system should start automatically after the power is reset to the system (in case of power failure).

- The controller should be low power consuming with consumption of less than 5W.
- Sensors connected to the system shall be automatically detected and initialized.
- No extra system configuration should be needed for substitute / replacement sensors.
- The system should have Service mode for cleaning/calibration/maintenance activities.
- It should be possible to download the data via the USB interface an extremely fast data exchange to USB memory stick.
- The system should be fully programmable with multiple levels of access control with help of Electronic- Key for data security and protection against non-authorized access to avoid any tampering or changes to the system configuration by unauthorized access.
- The controller should storage the sensor configurations and calibrations
- The controller should have Logbook to record the data
- The supplier should provide the software update free of cost as and when they are available for the life time of the system.
- The system should have a status LED that gives reliable and fast information regarding function and status of system. And the Controller/controller should show a LED for diagnostic purposes on the front. This LED should show normal and malfunctions of the system at a glance.
- Data Output to Control System: The System should have the capability to transmit the required 4-20 mA Analog Outputs as a minimum.
- In addition to above, the system should have ability to output Profibus, Modbus/RS 485, RS 232, LAN, GPRS, GSM compatible signals in future with addition of respective module as and when required.
- The system should be able to operate on AC Power (100-240 AC)
- Ambient Conditions Operating temperature: -4 °C ... +55 °C
- Storage temperature: -10 °C ... +65 °C
- Housing Material – Non corrosive e.g. Acrylonitrile-Styrene-Acryloesterpolymer or better
- Protection Rating IP 66 / equivalent to NEMA 4X for controller
- Electromagnetic Compatibility: EN 61326, Class B; FCC Class A, EMC for indispensable operation
- Integrated Lightning Protection: According to EN 61326 enhanced overvoltage protection for the entire system, implemented in each component

Specification Overview:

The system should be user friendly that operates & analyze in minimum interval) without any need of reagents, chemicals, consumables with low maintenance and calibration requirement.

Online multi-parametric pH, COD, BOD, TSS, Flow, at the outlet of STP

The system should have capability to accommodate any additional sensors viz. ORP, Turbidity, Conductivity, TDS, Dissolved Oxygen, Phosphate, Nitrite, Sludge Level etc. as may be required by the project authorities from time to time.

Parameters will be monitored at different location as mentioned below: STP Outlet:

pH, TSS, BOD, COD, Flow

Multi-parameter Controller System Specifications:

It should be equipped with the following minimum features:

- Backup controller function to increase reliability (in terminal mode)
 - Control unit with keys and toggle switch for the quick selection of software Functions
 - With large graphic display with backlight
 - With integrated backup controller function
 - Line power consumption approx. 25 VA
 - Max. power delivery 18 Watt
 - current outputs (0/4-20 mA) that can be assigned arbitrarily
 - MODBUS communication protocol for the data integration with PLC and SCADA
 - With Sensor ID recognition
 - High EMC interference immunity
 - Integrated lightning protection
 - Display /terminal Box should be minimum IP 65 grade with SS 304 MOC with lock & key arrangements.
-
- Should have the latest features of highly advanced Multiparameter Controller having capability of handling at least 4 sensors in a single controller
 - Display should be with improved reading precision through special backlit graphic display
 - Easy User Intuitive operating keys: including keys for functions such as: Measurement, calibration, set/system settings, additional keys for: confirmation/switching menu O.K. (OK), Escape (ESC) etc.
 - The Controller should be able to power all the sensors and terminals or accessories attached to it without having to need any additional power sources in the system for increased protection against lightening and possible electromagnetic interference.
 - The system should start automatically after the power is reset to the system (in case of power failure).
 - The controller should be low power consuming with consumption of less than 5W.
 - Sensors connected to the system shall be automatically detected and initialized.
 - No extra system configuration should be needed for substitute / replacement sensors.
 - The system should have Service mode for cleaning/calibration/maintenance

activities.

- The controller should store the sensor configurations and calibrations.
- The supplier should provide the firmware update free of cost as and when they are available for the life time of the system.
- The system should have a status LED that gives reliable and fast information regarding function and status of system. And the Controller/controller should show a LED for diagnostic purposes on the front. This LED should show normal and malfunctions of the system at a glance.
- Data Output to Control System: The System should have the capability to transmit the required 4-20 mA Analog Outputs as a minimum.
- In addition to above, the system should have ability to output Profibus, Modbus/RS 485, RS 232, LAN, GPRS, GSM compatible signals in future with addition of respective module as and when required.
- The system should be able to operate on AC Power (100-240 AC)
- Ambient Conditions Operating temperature: -20 °C ... +55 °C
- Storage temperature: -25 °C ... +65 °C
- Housing Material – Non corrosive e.g. Acrylonitrile-Styrene-Acryloesterpolymer or better
- Protection Rating IP 67 / corresponding to NEMA 4X for controller
- Electromagnetic Compatibility: EN 61326, Class A; FCC Class A, EMC for indispensable operation
- Integrated Lightning Protection: According to EN 61326-I- enhanced overvoltage protection for the entire system, implemented in each component

Spectrometry based Sensor for BOD, COD, and TSS for Outlet of STP-

- Measurement Principle: Measurement of full wave lengths spectra (UV-VIS Spectrometry) from 200 – 720 nm. The system should show absorption of all wavelength i.e. 200-720 nm on the controller in a well manner.
- The Sensor should not use any reagents and spare parts like WIPERS and should be easy to use and operate without any running costs.
- Multiparameter probe ideal for monitoring of BOD/COD/TOC/SAC/DOC/TSS in Waste water
- The Sensor should have optimized referencing for excellent zero point and long term stability.
- The Sensor should provide compensation of interferences by evaluation of the whole measured spectrum.
- Direct in-situ measurement in outlet of waste water treatment plant
- The sensor shall be with efficient integrated ultrasonic /air cleaning facility.
- The MoC should be Titanium or better to sustain the sensor in highly corrosive wastewater environment.
- The sensor should be completely reagent free for operation.
- System should be in conformity with latest CPCB guidelines in this regard and certified by agencies such as TUV/ MCERT/ USEPA or other permitted by CPCB.

Specifications:

Measurement Principle: UV Vis Spectrometry (200-720 nm)

Light Source: Xenon Flash Lamp

Accuracy in Standard Solutions: $\pm 5\%$ or as per CPCB guideline of the measured value.

Following measuring ranges are required as minimum for Outlet:

- COD: 0-800 mg/l
- BOD: 0-500 mg/l
- TSS: 0-900 mg/l

Ambient Conditions: Operating temperature: 0 °C to +45 °C;
Storage temperature: -10 °C to +50 °C

pH Sensor Specifications for Outlet of STP:

- Automatic temperature measurement and compensation should be provided in the pH sensor.
- Sensor check function to detect broken glass of the pH electrode.
- The pH sensor should have galvanically separated input.
- Calibration history should be stored automatically in the sensor.
- Sensor calibration can be done in the laboratory or field.
- The pH combination electrodes should require very little maintenance and there should be no electrolyte replacement.

Technical Specifications:

- Measuring Range: pH – 4.00- 14.00 at least considering the wastewater environment
- Signal Output –Digital
- pH Accuracy : $\pm 0.2\%$
- Sensor Check function should be available in the pH sensor
- Temperature Sensor should be integrated in the pH sensor
- Temp Compensation: -5 to +50 Deg C
- Transient Voltage Protection should be integrated in the sensor
- Sensor body: Stainless Steel or better
- protection type : IP 68 for both Sensor and Cable
- Sensor Cable Length: 15 meter or as per site requirement bidder should provide.

Communication and Data Presentation/Display

The controller or display of the system should be interfaced with a GSM/GPRS communication modem to seamlessly transmit the data from remote plants to a central location over a pre-defined interval.

The communication to the system should be two ways for ability to view settings and make changes to the configuration over the air, as and when required.

The system shall be able to transmit real time effluent quality data to RSPCB and to CPCB via cloud based system on a regular interval as per guidelines of CPCB.

Data Logger

The controller should be interfaced with a GSM/GPRS communication modem to seamlessly transmit the data from remote plants to a central location over a pre-defined interval.

The communication to the system should be two way for ability to view settings and make changes to the configuration over the air, as and when required.

The data should be received at a central location and should be displayed there in real-time in graphical and tabular format. The software as a minimum should have ability to print reports, archive data and make it available for export as a CSV file. The system should also have facility to generate alarm when set points are exceeded.

Specifications-

Connectivity Ethernet & GSM/GPRS (4G) Quad Band FDD LTE, TDD LTE, TDSCDMA, WCDMA

CDMA2000 1x/EVDO, GSM (900/1800MHz)

Logging 1 min - 24 hours / reading

Transmission Real-time

Storage 256MB (Industrial microSD)

Interface(s) 2 x EIA RS485, 1 x Rs232, 8 x 4-20mA ($\pm 1\%$ FS)

USB Host 1 (USB 2.0)

Voltage 9-24 VDC $\pm 10\%$ (Nominal 12VDC)

Power 5W (peak)

Protection Surge protection on sensor inputs, Over voltage and reverse polarity protection on

Power Input

Clock Internal (Stability 1ppm/yr) with 1yr backup

Configuration WebUI (Local LAN), Cloud, USB

STATUS INDICATION

Power/RUN, Internet/Cloud, Modem, 4G, MODBUS TX/RX

ENVIRONMENTAL

Operating Temperature 0 to 55 °C

Humidity 0 to 95% RH (non-condensing)

Technical Specification of 1 KVA UPS-

Capacity -1000VA/600W

Input Voltage Range- 140 V ~ 300 V AC Frequency - 50 Hz $\pm$ 10%

Output Voltage -230 V AC Nominal Transfer

Time-Typical 4~8ms

Type- Sealed Maintenance Free

Charging Time -6~8 Hours recover to 90% capacity Battery

Rating -SMF 12V /7AHx2 Batteries.

Environment-

Operating Temperature- 0°C-40°C;

Relative Humidity-0 to 90% Non-Condensing Noise Level- < 40dB

Technical Specification of Flow meter-

As per site condition the effluent flow may be through pipe, accordingly bidder should consider the electromagnetic type flow meter to measure the effluent flow and same be need to be installed as per site condition. Bidder should specify the following parameters :-

S.No.	General	Specification
1	Principal	Electromagnetic type flow meter for measurement of effluent in pipe.
2	Dia (Inch)	6
3	Working Temperature	0-70 C
4	Electrode Material	SS 316 L
5	Lining Material	PTFE
6	Display Version	Integral
7	Measuring Tube material	SS 304
8	Accuracy % of measured value	±0.5%
9	Repeatability	±0.2% of span
10	Display	2 Line LCD
11	Output	4-20 mA
12	Power supply	12-60 V DC or 80-300V AC/DC
13	Protection Class for Transmitter	IP67
14	Protection Class for sensor	IP65

Section A-5

Annexure

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 the 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 anti-competitive 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 a 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 subcontractor, 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 is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted to for procurement of in response to their Notice inviting Bids No.Dated I/We hereby 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 Entity;
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 proceeding 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 :
Place :

Signature of bidder

Name :
Designation :
Address :

Grievance Redressal during Procurement Process

The designation and address of the **First Appellate Authority is Commissioner, JDA Jaipur.**

The designation and address of the **Second Appellate Authority is Executive Committee (E.C.), JDA Jaipur.**

(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 Endeavour 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) Appeal 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) Form of Appeal

(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.

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 officer/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 proposes 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

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 Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. 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 in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided 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 25% 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 is 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, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Signature of Contractor
with full address & Mobile No.

Executive Engineer (PHE-I)
JDA, Jaipur

ANNEXURE- I

[Reference Clause 3(i)]

Signed
Photograph of
Applicant

To be given on Non-Judicial stamp
Paper of Rs. 50/- only,

AFFIDAVIT

**I/We..... Proprietor/ Partner/ Authorized
signatory of M/s under take the oath that the
information furnished by me/us in schedule I to VII of the assessment Bid for
..... is correct to the
best of my/our knowledge and nothing has been concealed by me. I
acknowledge that if in future any information furnished by me is found
incorrect I will be solely responsible and shall be punished as per the law and
also any benefits in any form obtained by me shall be recoverable.**

.....
Proprietor/ Partner/ Authorized signatory

M/s

.....

Note:-

The applicant has to enclose a self attested photo identity card with the above affidavit.

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

No. JDA/Ex.En. (TA to Dir. Engg.-I)/2016/D-29

Dated: 11/3/2016

Office Order

Subject: - DLP period for various type of works.

As per the decision taken in the 201st meeting of Executive Committee held on 23.02.2016 w.r.t. agenda no. 201:22, DLP period of various natures of works amounting more than Rs. 25 lakhs has been revised as per following time periods based on nature of works.

This order will supersede the earlier orders issued in this regard i.e. order No. JDA/TA to D(E)/2010-11/D-317 dated 28.04.2011 including Special Condition No. 2.2.2 & 2.2.3 of Annexure-I related to SD refund & forfeiture (other Special Condition of annexure-I of this order will remain valid) and order No. JDA/Ex.En.(Pr.-5 & TA)/2013/D-43 dated 27.02.2013 and also all pertaining orders, in contract agreements or in PWF&AR having DLP period different than what is being enforced through this present order for concerned type of work.

Table-I

S.No.	Type of Work	Existing DLP Period	As per approved in E.C. held on 23.02.2016
1.	Bridge Work	3 years	5 Years
2.	CD Work	3 years	5 Years
3.	CC Road, PQC Work	3 years	5 Years
4.	CC tiles/Kerbs/medians	3 years	5 years
5.	Drains	6 months	3 years
6.	Roads		
	(i) Two layer WBM/CSB	3 years	6 Months or one full rainy season which ever is later
	(ii) For Renewal/Strengthening		
	(a) BT upto 30 mm thickness	3 years	1 year
	(b) BT above 30 mm to upto 40 mm	3 years	2 years
	(c) BT above 40 mm to upto 90 mm	3 years	3 years
	(d) ET Above 90 mm	3 years	5 years
	(iii) New Roads		
	(a) BT upto 90 mm	3 years	3 years
	(b) BT more than 90 mm	3 years	5 years
7.	Compound wall	6 months	3 years
8.	Buildings work		
	(i) Work pertaining to Sanitary works electrical works, Joinery works and painting works.	6 months	2 years
	(ii) Work pertaining to Building structure and other civil works.	6 months	5 years
9.	Electric work except maintenance	6 months	3 years
10.	Sewer/Water supply all including STP and water supply related work except maintenance works.	6 months	3 years <i>4*</i>

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

Table-II

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:-

- (i) 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.
- (ii) Similarly for all new works, these components should be calculated at the time of TS itself, which should be made part of BID document.
- (iii) 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.
- (iv) Similarly if any work is more than Rs. 25 lakhs but after 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.

Table-III

% Recovery on Withdrawal of DLP, of work order DLP period	1 year	2 year	3 year	4 year	5 year
1 year	1.12	-	-	-	-
2 year	2.55	1.43	-	-	-
3 year	4.38	3.26	1.83	-	-
5 year	9	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.

(ix) 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.

This order shall come in force with immediate effect and will be applicable on all new works whose NIB is to be called.

Sd/-
Director (Engineering-I)
JDA, Jaipur

Copy to following for information and necessary action:-

1. PS to IDC, JDA, Jaipur.
2. PS to Secretary, JDA, Jaipur.
3. Director Engineer I/II, JDA, Jaipur.
4. Director (Fin.), JDA, Jaipur.
5. C.F, JDA, Jaipur.
6. All Add. Chief Engineers, JDA, Jaipur.
7. All Superintendent Engineers, JDA, Jaipur.
8. OSD (RM), JDA, Jaipur.
9. Additional Director (REV.&DP.)
10. CAO (P&A) JDA, Jaipur.
11. Sr. Horticulturist, JDA, Jaipur
12. All Executive Engineer, JDA, Jaipur.
13. DD (E&B) JDA, Jaipur.
14. All AOs, JDA, Jaipur.
15. All AAOs, JDA, Jaipur.
16. System Analyst
17. All Contractors' Association, JDA, Jaipur.
18. Guard file

Sd/-
S.E. & TA to Dir. (Engg.-I)
JDA, Jaipur

Jaipur Development Authority, Jaipur

Office Order

No. : JDA/IT(1074501)/E-Services/2015-16/D-399

Dated: 4-10-2016

Subject: Payment mechanism for participating in tender.

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:

A. Payment Options:**Option-1: Bank Guarantee (BG) against EMD / Bid Security**

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available.

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available.

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation.

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.

- In case complete payment is done through Payment Gateway, on successful transaction the “**Bid Participation Receipt**” will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) “**Bid Participation Receipt**” will be available on Login of Bidder on JDA portal.

This payment mechanism will come into force w.e.f 15/10/2016. Thereafter, old payment mechanism related to NEFT/ RTGS in which the bidder makes direct payment without “**Paying Slip for EFT (NEFT/RTGS)**” in JDA’s bank account will be discontinued.

All procuring entities are hereby directed to clearly mention this procedure in NIB document.


(Pawan Arora)
Secretary

Copy for information and further necessary action to:

1. P.S. to JDC, JDA, Jaipur.
2. P.S. to Secretary, Secretary, JDA, Jaipur.
3. Director (Law / Finance / Town Planning / Engineering-I / Engineering-II), JDA, Jaipur.
4. All Additional Chief Engineer _____, JDA, Jaipur
5. DC (Administration)/DC(Store)/DC (Vehicle), JDA, Jaipur
6. System Analyst, JDA, Jaipur
7. Analyst-cum-Programmer, JDA to ensure integration of software w.e.f 01/10/2016.
8. All Xen _____, JDA, Jaipur.
9. Officer-in-charge, SPPP Portal, Jaipur.
10. OSD (Public Relation) / PRO, JDA, Jaipur.


(Brijesh Kishore Sharma)
OSD (RM)

जयपुर विकास प्राधिकरण, जयपुर

क्रमांक :- F-()JDA/Sr.Ao.works-II/2017/D-

172

दिनांक :-

12.7.17

आदेश

1 जुलाई 2017 से भारत सरकार के नोटिफिकेशन द्वारा GST लागू होने के कारण व्यक्तियों/फर्म/कम्पनी/संस्था/टेकेदार के निर्माण/सिविल आपूर्ति/सेवाओं इत्यादि के कार्यों के प्राधिकरण द्वारा बिल भुगतान किये जाने के लिये प्राधिकरण कर सलाहकार चार्टर्ड एकाउन्टेन्ट से प्राप्त हुई राय के क्रम में निम्नांकित प्रमाण पत्र/शपथ पत्र/Invoice बिलों के साथ प्रस्तुत किया जाना सुनिश्चित करावे :-

1. व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार का GST के अन्तर्गत रजिस्ट्रेशन प्रमाण पत्र की स्व:प्रमाणित फोटो प्रति।
2. व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार का GST के रजिस्ट्रेशन नहीं होने के स्थिति में स्व:प्रमाणित शपथ पत्र।
3. अप्रजिकृत व्यक्ति/फर्म/कम्पनी/संस्था/टेकेदार के बिलों के भुगतान की स्थिति में मासिक टैक्स Invoice भुगतान-अधिकारी द्वारा मासिक आधार पर उसी माह के अंत में तैयार करवाया जाना सुनिश्चित किया जावेगा।
4. आपूर्ति एवं सेवा के विरुद्ध भुगतान बिलों में Vat/Service Tax चार्ज होने (Vat/Service Tax होने) पर (दिनांक 30.06.17 तक आपूर्ति एवं Invoice जारी करने पर) Taxable Invoice नहीं बनाया जावेगा एवं इनका भुगतान पूर्वानुसार (01.07.2017 से पूर्व निहित प्रक्रिया अनुसार) किया जाना सुनिश्चित करावे।

स्पष्टीकरण :- दिनांक 30.06.17 तक सामान की आपूर्ति के बिलों में Vat Invoice होने पर या अन्यथा होने पर इनका भुगतान पूर्वानुसार 01.07.2017 से पूर्व निहित प्रक्रिया अनुसार किया जावेगा।

संलग्न :- GST रेट तथा HSN/SAC CODE की फोटो प्रति

(बृजेश किशोर शर्मा)
निदेशक(वित्त)

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु :-

1. वरिष्ठ निजी सचिव, आयुक्त, जविप्रा, जयपुर।
2. वरिष्ठ निजी सचिव, सचिव, जविप्रा, जयपुर।
3. निदेशक (वित्त/विधि/अभियांत्रिकी-प्रथम व द्वितीय/आयोजना/परियोजना, जविप्रा, जयपुर।
4. अतिरिक्त आयुक्त(प्रशासन/पूर्व/पश्चिम/एल.पी.सी./भूमि), जविप्रा, जयपुर।
5. संयुक्त आयुक्त(सिस्टम मैनेजमेन्ट/संसाधन एवं समन्वय), जविप्रा, जयपुर।
6. विशेषाधिकारी(संसाधन विकास), जविप्रा, जयपुर।
7. अतिरिक्त निदेशक(राजस्व एवं सम्पत्ति निस्तारण), जविप्रा, जयपुर।
8. समस्त जोन उपायुक्तगण , जविप्रा, जयपुर।
9. मुख्य लेखाधिकारी(पी. एण्ड ए.), जविप्रा, जयपुर।
10. उपनिदेशक(व्यय एवं बजट), जविप्रा, जयपुर।
11. वरिष्ठ लेखाधिकारी(निर्माण-प्रथम/द्वितीय/आर.सी.आर./पेंशन/नीलामी), जविप्रा, जयपुर।
12. सिस्टम एनालिस्ट, जविप्रा, जयपुर को प्रेषित कर लेख है कि सिस्टम में GST नम्बर सम्मिलित करने एवं Tax Invoice बनाने की प्रक्रिया तैयार करावे।
13. उप रजिस्ट्रार(सहकारिता), जविप्रा, जयपुर।
14. अधिशाषी अभियन्ता जोन , जविप्रा, जयपुर।
15. वरिष्ठ उद्यानविज्ञ, जविप्रा, जयपुर।
16. लेखाधिकारी (भुगतान/योजना/निर्माण)/सहायक लेखाधिकारी, जविप्रा, जयपुर।
17. प्रभारी अधिकारी, नागरिक सेवाकेन्द्र, जविप्रा, जयपुर।
18. सलाहकार(जनसम्पर्क), जविप्रा, जयपुर।
19. रोकडियॉ(निर्माण/सिविल/भूमि आवृत्ति), जविप्रा, जयपुर।
20. रक्षित पत्रावली

अति.निदेशक(रा.एवं स.नि.)

SPECIAL CONDITIONS

1. 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.
2. The contractor shall follow the contractor labour regulation and abolition Act 1970 & Rule 1971.
3. The JDA shall have right to cause on audit and technical examination of the work and the final bills of the contractor 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 contractor under the contract or any work claimed by him to have been done under this contract and found not to have been executed the contractor 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. 8 or any other manner legally permissible and if it is found that the contractor 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 contractor.
4. Tax exemption/ Tax liabilities if any shall be applicable as per prevailing government rule and bidder has to consider this while quoting the rates.
5. The contractor shall not work after the sunset and before sunrise without specific permission of the authority Engineer.
6. Whenever any claim against the contractor 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 contractor. In the event of the security being insufficient or if no security has been taken from the contractor 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 contractor 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.
7. The rate quoted by the contractor shall remain valid for a period of 120 days from the date of opening of the tenders.
8. By submission of this tender the contractor agree to abide with all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
9. No conditions are to be added by the contractor and conditional tender is liable to be rejected.
10. All transaction in the execution of this work and this tender will be liable to GST & other taxes levied by GOR & GOI.
11. If any Bid 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 tender 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 and fails to furnish performance guarantee 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 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 bidding in JDA for Six Months in addition to forfeiture of Earnest Money / Security Deposit / Performance Guarantee and other action under agreement

12. Rules regarding enlistment of contractors provide that work upto five times limit for which they are qualified for tendering can be allotted to them. Therefore, before tender the contractors will keep this in mind, and submit the details of work. Bids with incomplete or incorrect information are liable to be rejected.
13. Any material not conforming to the specifications collected at site shall have to be removed by the contractor within a period of 3 days of the instructions, issued by the Engineer-Incharge in writing. Failing which, such material shall be removed by the Engineer-Incharge at risk and the contractor after expiry of 3 days period.
14. The material collected at site and paid provisionally shall remain under the watch and ward of the contractor till it is consumed, fully on the work.
15. The rates provided in Bid documents are inclusive of all Taxes, royalty.
16. 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 Contractor at his own cost.
17. Undersigned has full right to reject any or all Bids without given any reasons.
18. Mortar of Masonry work and lean concrete will be permitted mixer with hopper.
19. 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."
20. The Bidder are required to submit copy of their enlistment as contractor.
21. Conditions of RPWA-100 will be mandatory & acceptable to the contractor.
22. 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.
23. All the provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 will be applicable. If there is any contradictions in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and RULES, 2013 shall be applicable.
24. Time period of work can be increased as per RTPP Rules.

Signature of Contractor
with full address & Mobile No.

Executive Engineer (PHE-I)
JDA, Jaipur

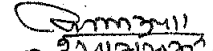
क्रमांक : एफ.2(1)वित्त/जीएण्डटी-एसपीएफसी/2017 जयपुर, दिनांक : 23.12.2020

परिपत्र

वित्त विभाग की अधिसूचना क्रमांक एफ. 2(1)वित्त/जीएण्डटी - एसपीएफसी/2017 दिनांक 18.12.2020 द्वारा आरटीपीपी नियम, 2013 के नियम 42(2) में संशोधन करते हुए आमंत्रित की जाने वाली आगामी बोलियों के संदर्भ में दिनांक 31.12.2021 तक बिड सिक्यूरिटी राशि प्राप्त नहीं करने एवं इसके स्थान पर बिड सिक्यूरिटी के संबंध में घोषणा पत्र (Declaration) प्राप्त करने का प्रावधान किया गया है।

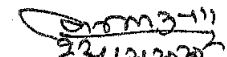
चूंकि उक्त नियमों में बिड सिक्यूरिटी राशि के स्थान पर बिड सिक्यूरिटी के संबंध में घोषणा पत्र (Declaration) प्राप्त करने का नवीन प्रावधान किया गया है। अतः समस्त उपापन संस्थाओं के उपयोगार्थ बिड सिक्यूरिटी के संबंध में लिए जाने वाले घोषणा पत्र (Declaration) का मानक प्रारूप संलग्न प्रेषित है। राजस्थान स्टाम्प अधिनियम, 1998 की धारा 3 सपठित अनुसूची के अनुच्छेद 4 के अनुसार घोषणा पत्र (Declaration) पर 50/- रुपये स्टाम्प ड्यूटी देय है तथा इस स्टाम्प ड्यूटी की राशि पर नियमानुसार 30 प्रतिशत सरचार्ज देय है। अतः समस्त उपापन संस्थाओं को निर्देशित किया जाता है कि बिड सिक्यूरिटी के संबंध में प्रस्तुत किए जाने वाले घोषणा पत्र (Declaration) पर उक्तानुसार राजस्थान राज्य में स्टाम्प ड्यूटी एवं सरचार्ज का भुगतान सुनिश्चित करावें।

संलग्न- उपरोक्तानुसार


(विमल कुमार गुप्ता)
संयुक्त शासन सचिव

प्रतिलिपि निम्नांकित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:-

1. सचिव, राज्यपाल/प्रमुख सचिव, मुख्यमंत्री/विशिष्ट सहायक समस्त मंत्रीगण/राज्य मंत्रीगण ।
2. उप सचिव, मुख्य सचिव/निजी सचिव, समस्त अति. मुख्य सचिव/प्रमुख शासन सचिव/ शासन सचिव/विशिष्ट शासन सचिव ।
3. सचिव, राजस्थान विधानसभा, राजस्थान, जयपुर ।
4. सचिव, लोकायुक्त सचिवालय, राजस्थान, जयपुर ।
5. सचिव, राजस्थान लोक सेवा आयोग, अजमेर ।
6. रजिस्ट्रार, राजस्थान उच्च न्यायालय जोधपुर/जयपुर ।
7. प्रधान महालेखाकार ए एण्ड ई राजस्थान जयपुर ।
8. प्रधान महालेखाकार ऑडिट राजस्थान जयपुर ।
9. समस्त संयुक्त शासन सचिव/उप शासन सचिव/सचिवालय के समस्त अनुभाग/विभाग ।
10. समस्त विभागाध्यक्ष/जिला कलक्टर/संभागीय आयुक्त ।
11. रजिस्ट्रार, राजस्थान सिविल सेवा अपील अधिकरण, जयपुर ।
12. समस्त वित्तीय सलाहकार/मुख्य लेखाधिकारी ।
13. समस्त कोषाधिकारी ।
14. समस्त उपापन संस्थाएं ।
15. तकनीकी निर्देशक वित्त विभाग को भेजकर लेख है परिपत्र को वित्त विभाग की वेबसाईट पर प्रकाशित करवाने की व्यवस्था करावें ।
16. रक्षित पत्रावली ।


23/12/2020
संयुक्त शासन सचिव

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 :-----

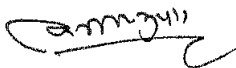
In the capacity of :-----

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- II

Bank Guarantee Performa for Bid security deposit

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 Security Deposit for the work of **“Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work “Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.”**

WHEREAS, _____ [name of Bidder with address] (hereinafter called “the Bidder”) has submitted his Bid dated for the work of **“Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work “Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.” (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.]

PAYMENT MECHANISM FOR PARTICIPATING IN TENDER

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security) Tender fee online through JDA portal. The bid security options available in tender for participants are as mentioned below :

A. Payment Options:

Option-1: Bank Guarantee (BG). against EMD / Bid Security

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security) for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT/RTGS) will be available

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS) **"Paying Slip for EFT (NEFT/RTGS)"** will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the **"Bid Participation Receipt"** will be generated on real time basis
- In case complete payment is done through Payment Gateway, on

successful transaction the **"Bid Participation Receipt"** will be generated on real time basis

- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) **"Bid Participation Receipt"** will be available on Login of Bidder on JDA portal.

-SD-

**Executive Engineer (PHE-I)
JDA, Jaipur**

Section A-7

Bill of Quantities

Jaipur Development Authority, Jaipur

Name of Work:- Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.

Estimate

BOQ 1		Non BSR Items			
S.No.	Particulars	Qty	Unit	Rate	Amount
	For Outlet and Inlet parameters online monitoring including data transfer charges to CPCB & RSPCB with 1 year DLP/warranty				
1	MIQ/TC 2020 3G-C6 or equivalent : Local Display Unit Multi-parameter measuring converter, for connecting to 20 IQ sensors. Scope of supply: Terminal/Controller, with 6 analog outputs (0/4-20 mA), wide-range power	2.00	Job		
2	CarboVis®705 IQ TS or equivalent: (BOD, COD, TS S PROBES) Optical COD, BOD, TSS, probe (60 mm) with spectral processing of the UV- VIS range, for measurement in the inlet/effluent/ BNR part of municipal wastewater treatment plants with integrated ultrasonic cleaning/Air cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings. Measuring Range: BOD: (0-500 mg/l) COD: (0-800 mg/l) TSS: (0-900 mg/l)	2.00	Job		
3	SensoLyt® 700 IQ/SET or equivalent: (Ph Probe.) Robust digital pH/O RP sensor including pHelectrode and 7 m (23 ft) sensor adapter cable (pH Sensor with 7-meter Integrated cable) Temperature is integrated by default Measuring Range: PH: 0-14	2.00	Job		
4	SACIQ-7,0 or equivalent: Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ Sensor Net system. Cable length 7 meters	2.00	Job		
5	Wireless Modem with GSM Facility	2.00	Job		
6	Rittal Panel for controller IP 65 grade	2.00	Job		

7	Flowmeter Electromagnetic Size: 6" Pipeline	1.00	Job		
8	UPS + Power Cables	2.00	Job		
9	Fabrication Material + Labour + Others Expensive	1.00	Job		
10	Installation Charges	2.00	Job		
Total				Rs.	

Executive Engineer (PHE-I)
JDA, Jaipur

Jaipur Development Authority, Jaipur

Name of Work:- Supply, installation of Online Continuous Effluent Monitoring System (OCEMS) at inlet & outlet with data transfer to CPCB & RSPCB server for CETP Sahkar Marg under the work "Construction of 1 MLD CETP at Kartarpura Nallah along Sahkar Marg, Jaipur.

Estimate

BOQ 2

Non BSR Items

S.No.	Particulars	Qty	Unit	Rate	Amount
	Annual Maintenance Contract after warranty of 1st year				
1	2nd Year comprehensive AMC AMC for Water Quality Monitor (BOD, COD, TSS, PH & Flow meter) for (inlet + outlet) including 1- Four service visit in year which will be scheduled 2- Calibration two times in a year 3- Data transfer to CPCB & SPCB 4- Consumable.	1.00	Job		
Total				Rs.	

Executive Engineer (PHE-I)
JDA, Jaipur