

Percentage BoQ

Tender Inviting Authority: JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

Name of Work:- Development works (civil)in multipurpose scheme at B-2 bypass, Durgapura, (Phase-II) zone 4, JDA, jaipur

Contract No: EE-4/11/2021-22

Bidder Name :						
PRICE SCHEDULE						
Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1.00	Excavation in Cutting in Soil Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per MoRD Specification Clause 302.3	1845.620	cum	26.10	48170.68	INR Forty Eight Thousand One Hundred & Seventy and Paise Sixty Eight Only
2.00	Gravel/Soil-Aggregate Base/Sub-base Gravel/Soil Aggregate Base/Sub-base Nominal Maximum size Grading 80 mm (Table 2.3 of IRC SP 77-2008) Construction of Gravel / Soil Aggregate Sub-base/Base by providing well graded material of nominal maximum size grading 80 mm as per Table 2.3 of IRC SP 77-2008, spreading in uniform layers with tractor mount appropriate grading arrangements on prepared surface, mixing by mix in place method at OMC with tractor mount appropriate rotavator attachment and compaction with three wheel 80-100 KN Static Roller capacity to achieve the desired density complete as per specifications contained in Para 2.2, 3.6 and 3.7 of IRC SP 77-2008	2520.000	cum	531.00	1338120.00	INR Thirteen Lakh Thirty Eight Thousand One Hundred & Twenty Only
3.00	Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and MoRD Specification Clause 406. By Mechanical Means with 1 km lead	3692.700	cum	1071.00	3954881.70	INR Thirty Nine Lakh Fifty Four Thousand Eight Hundred & Eighty One and Paise Seventy Only
4.00	Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per MoRD Specification Clause 503	12600.000	Sqm	9.00	113400.00	INR One Lakh Thirteen Thousand Four Hundred Only

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4.10	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per MoRD Specification Clause 503	12600.000	Sqm	10.80	136080.00	INR One Lakh Thirty Six Thousand & Eighty Only
5.00	Retro-reflectorised Traffic Signs Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 1.5 mm thick supported on GI pipe 50 mm dia firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRD Specification Clause1701 900 mm equilateral triangle	3.000	Each	3825.00	11475.00	INR Eleven Thousand Four Hundred & Seventy Five Only
6.00	Retro-reflectorised Traffic Signs Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on 2 inch dia GI Pipe firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and Tehnical Specification Clause 1701.	3.240	Sqm	8235.00	26681.40	INR Twenty Six Thousand Six Hundred & Eighty One and Paise Forty Only
7.00	Marking Centre Line and stop lines etc. on road as per IRC pattern with thermoplastic paint of approved quality and make with 8% glass beads laid on the road surface at temperature 160" C with a special applicator machine complete with a special applicator machine complete with labour material and traffic diversion arrangements	489.000	Sqm	436.50	213448.50	INR Two Lakh Thirteen Thousand Four Hundred & Forty Eight and Paise Fifty Only
8.00	Supplying of Cat’s Eye made of aluminium alloy size 75x100x22 mm having 21 biconvex lenses embedded in circular disk of ABS plastic on each side.	198.000	Each	180.00	35640.00	INR Thirty Five Thousand Six Hundred & Forty Only

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Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
9.00	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 60 mm as per drawings and MoRD Specification Clause 1504with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	1650.000	Sqm	625.50	1032075.00	INR Ten Lakh Thirty Two Thousand & Seventy Five Only
9.10	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 100 mm as per drawings and MoRD Specification Clause 1504with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.Category 'B' : Dentated only two sided like I,Z,T shape as per as per IRC:SP:63-2004	3215.000	Sqm	877.50	2821162.50	INR Twenty Eight Lakh Twenty One Thousand One Hundred & Sixty Two and Paise Fifty Only
10.00	Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per MoRD Specification Clause 301.5	25154.590	cum	94.50	2377108.76	INR Twenty Three Lakh Seventy Seven Thousand One Hundred & Eight and Paise Seventy Five Only
11.00	CEMENT CONCRETE (CAST-IN-SITU) Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level. M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	226.234	cum	2398.50	542622.25	INR Five Lakh Forty Two Thousand Six Hundred & Twenty Two and Paise Twenty Five Only
11.10	M15 grade Nominal Mix 1: 2: 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	13.993	cum	2882.70	40337.62	INR Forty Thousand Three Hundred & Thirty Seven and Paise Sixty Two Only
12.00	Random Rubble stone masonry for with hard stone in foundation and plinth in Cement Sand mortar above 30 CM thick wall in: Cement Mortar 1:6 (1-Cement : 6-Sand)	347.977	cum	1770.30	616023.68	INR Six Lakh Sixteen Thousand & Twenty Three and Paise Sixty Eight Only
13.00	Random Rubble stone masonry with hard stone in superstructure above plinth level and upto five level above 30cm. thick walls in : Cement Mortar 1:6 (1-Cement : 6-Sand)	279.855	cum	2169.90	607257.36	INR Six Lakh Seven Thousand Two Hundred & Fifty Seven and Paise Thirty Six Only

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Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
14.00	Bituminous Macadam Providing and laying bituminous macadam with hot mix plant using crushed aggregates of grading as per Table 500.4 premixed with bituminous binder, transported to site with all leads laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction as per MoRD Specification Clause 504. Bitumen (VG-30)	1323.000	MT	2421.00	3202983.00	INR Thirty Two Lakh Two Thousand Nine Hundred & Eighty Three Only
15.00	20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per MoRD Specification Clause 508. By Mechanical Means Bitumen (VG-30)	529.200	MT	2722.50	1440747.00	INR Fourteen Lakh Forty Thousand Seven Hundred & Forty Seven Only
16.00	Seal Coat Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per MoRD Specification Clause 510 By Mechanical Means Type B Bitumen (VG-30)	12600.000	Sqm	38.70	487620.00	INR Four Lakh Eighty Seven Thousand Six Hundred & Twenty Only
17.00	FORMK WORK Centering and Shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundation , footings, strap beam, raft , bases of columns etc	141.000	Sqm	99.00	13959.00	INR Thirteen Thousand Nine Hundred & Fifty Nine Only

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18.00	Centering & shuttering with plywood or steel sheets including strutting, propping bracing both ways with steel props and removal of formwork for upto floor five level for : Walls (any thickness) including attached pilasters, buttresses plinth and string course	1657.200	Sqm	180.90	299787.48	INR Two Lakh Ninety Nine Thousand Seven Hundred & Eighty Seven and Paise Forty Eight Only
19.00	Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level. Thermo-mechanically Treated bars (Conforming of relevent IS code)	20677.620	Kg	62.10	1284080.20	INR Twelve Lakh Eighty Four Thousand &Eighty and Paise Twenty Only
20.00	CAST-IN-SITU CONCRETE Providing and laying in position Ready mix concrete manufactured in fully automatic Batching Plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design of specified grade of RCC work including pumping of R.M.C. from transit mixer to site of laying , exculding the cost of centering, shuttering and reinforcement with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge . All works upto floor V floor M20 grade Design Mix by using min 400 Kg of cement per cum of concrete	573.681	cum	3902.40	2238732.73	INR Twenty Two Lakh Thirty Eight Thousand Seven Hundred & Thirty Two and Paise Seventy Three Only
21.00	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sum on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed: All kinds of soil	1204.923	cum	109.80	132300.55	INR One Lakh Thirty Two Thousand Three Hundred and Paise Fifty Five Only

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Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
22.00	Dismantling of Structures Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per MoRD Specification Clause 202. By Mechanical Means Reinforced Cement Concrete	216.000	cum	360.00	77760.00	INR Seventy Seven Thousand Seven Hundred & Sixty Only
23.00	Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement as per Clause 1501.2.2 M35 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a automatic concrete mixing plant, using approved mix design,transported in transit mixture from plant to work site, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints,applying ebonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using curing compound and water finishing to lines and grade as per drawing and Technical Specification Clause 1501 Including vacuum dewatering process with all required equipments	168.000	cum	5310.00	892080.00	INR Eight Lakh Ninety Two Thousand &Eighty Only
24.00	Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRD Specification Clause 502	12600.000	Sqm	31.50	396900.00	INR Three Lakh Ninety Six Thousand Nine Hundred Only

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25.00	Dismantling of Cement Concrete Pavements as per MoRD Specification Clause 202. Dismantling of cement concrete pavements by mechanical means using pneumatic tools breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 m, stacking serviceable and unserviceable materials separately	165.000	cum	481.50	79447.50	INR Seventy Nine Thousand Four Hundred & Forty Seven and Paise Fifty Only
26.00	Filling available excavated earth (excluding rock) in trenches, plinth side of foundation etc. in layers not exceeding 20 cm. in depth, consolidating each deposited layer by ramming and watering including lead up to 50 meter and with all lift.	7369.452	cum	40.50	298462.81	INR Two Lakh Ninety Eight Thousand Four Hundred & Sixty Two and Paise Eighty One Only
27.00	POINTING Pointing on stone masonry in cement sand mortar 1:3 (1cement : 3 sand) : Raised and cut pointing.	1472.920	Sqm	132.30	194867.32	INR One Lakh Ninety Four Thousand Eight Hundred & Sixty Seven and Paise Thirty Two Only
28.00	Providing and fixing reinforced concrete precast kerb stone or dand R.Mtr of M-20 grade cement concrete 120 cm long having 4 Nos. bars of 8 mm dia hysd and stirrups 6 Nos of 6 mm dia as per IS with in built provision of interlocking of jointing and lifting compaction of reinforced concrete by mechanical and table vibrators jointing at site with cement mortar 1:4 complete in all respect as directed by Engineer incharge on: 100 mm thick cement concrete 1:4:8 (1 Cement : 4 Coarse sand : 8 stone aggregate 20 mm thick nominal size) including excavation of earth and cutting of BT road cutting of WBM road etc. and disposal of surplus material with all lead and lift. The size of kerb shall be (11.5+16.5)/2*30+(16.5*7.5)	200.000	P.Rmt.	617.00	123400.00	INR One Lakh Twenty Three Thousand Four Hundred Only

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29.00	Providing and laying Precast reinforced cement concrete Box culvert section of M-40 grade designed for 'AA' class loading as per IRC specifications including to effect of impact, EQ etc. complete on form base of 200mm thick lean concrete of M-10 grade with aggregate of size 40mm nominal of following internal size the work includes required safety measures construction of drain for diversion of flowing water cost of design of RCC Precast Box and its proof checking from IIT/MNIT Jaipur complete in all respect as per specifications. Size 1.00 M x 1.00 M	102.000	R.Mtr.	15457.00	1576614.00	INR Fifteen Lakh Seventy Six Thousand Six Hundred & Fourteen Only
30.00	Granular Sub-base with Well Graded Material (Table 400.1) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with Tractor Mount Grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per MoRD Specification Clause 401 For Grading III Material	390.000	cum	351.00	136890.00	INR One Lakh Thirty Six Thousand Eight Hundred & Ninety Only
31.00	Earth, Sand, Lime, Morrum manure or sludge Add for each 1 Km beyond 1st Km(upto 5 Km.)	32524.040	cum	10.80	351259.63	INR Three Lakh Fifty One Thousand Two Hundred & Fifty Nine and Paise Sixty Three Only
Total in Figures					27142375.67	INR Two Crore Seventy One Lakh Forty Two Thousand Three Hundred & Seventy Five and Paise Sixty Seven Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				