

NIT No.- 04/2026-27  
Item No.- 01

## URBAN IMPROVEMENT TRUST, BALOTRA

M/s. ....

D.D. No. .... Date ..... Rs. ....

### G' Schedule

BASED ON PWD Unified Road BSR 2025-26 &  
PWD Electrical BSR 2025

**Name of Work :- Widening & Strengthening of BT Road from CETP Trust To Khed Mandir**

S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
1	2.3 (ii) A	<b>Clearing and Grubbing Road Land</b> (Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.) By Mechanical Means In area of Non-Horny jungle				
			4.16	Hect.	12513.00	52054.08
2	3.5 (iii)	<b>Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m</b>				
		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 MoRTH Specification Clause 301.3	22517.00	Cum	31.00	698027.00
3	3.4(i)	<b>Embankment Construction with Material Obtained from Borrow Pits</b> (Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)				
			4000.00	Cum	58.00	232000.00
4	16.67	Detail survey of site with total station including plane table survey of builtup area showing road level, boundary walls, electric poles, adjacent building / plot details, set back, other existing structures ( temporary or permanent ), sewer lines & septic tank, main plumbing lines, nalahs or drains water bodies/water logging areas as may be required depending upon the site conditions/ topography of the area including printout on required size paper in three copies & one soft copy of approved media				
	16.67.3	Rate per Hect. Builtupt area 10% to 50%	6.60	P.Hect	6795.00	44847.00
5	4.1.(iii)	<b>By Mix in Place Method</b> (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 MoRTH Specification Clause 401.				
	(iii)	For Grading III Material	7741.80	Cum	450.00	3483810.00
6	4.1.(i)	<b>By Mix in Place Method</b> (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 MoRTH Specification Clause 401.				
	(i)	For Grading I Material	3155.63	Cum	512.00	1615682.56



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
7	4.1.(i)	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 400-12 & 400-13 and MoRTH Specification Clause 406..) By Mechanical Means with all lead	11612.70	Cum	1147.00	13319766.90
8	4.6 A	Extra rate for carriage of mixed material additional lead from in item 4.6				
	(i)	2nd Km. to 10th Km	11612.70	Cum/P. Km	45.00	522571.50
		<b>BITUMEN WORK</b>				
		<b>Prime Coat</b>				
9	5.1 (i)	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base(WBM/WMM) including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRTH Specification Clause 502				
			61893.00	Sqm.	31.00	1918683.00
		<b>Tack Coat</b>				
10	5.2 (i)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.30 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per MoRTH Specification Clause 503.				
			78540.00	Sqm.	9.60	753984.00
	16.14.2	<b>Dense Graded Bituminous Macadam</b>				
11		Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tones per hour using crushed aggregates of specified grading, premixed with bituminous binder minimum @ 4.0 & 4.5 percent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH Specifications Clause 505 complete in all respects. Bitumen (VG-30)				
		for GradingII(26.5 mm nominal size)	4250.73	P.Cum	6852.00	29126001.96
12	16.15.5	<b>Bituminous Concrete</b>				
		Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder minimum @ 5.2 & 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH Specifications Clause 507 complete in all respects				
		for Grading-II(13 mm nominal size) Bitumen (VG-30)				
		for Grading-II(13 mm nominal size) Bitumen (VG-30)	2333.10	P.Cum	7925.00	18489817.50
13	10.10	Kilo Metre Stone (Reinforced cement concrete M15grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)				
a-		5th kilometre stone (precast)	1	Nos	2930.00	2930.00
b-		Ordinary Kilometer stone (Precast)	5	Nos	1738.00	8690.00
c-		200 m stone (Precast)	28	Nos	407.00	11396.00



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
14	10.25	Providing and Erecting typical Citizens information board as per approved drawing and specifications of MoRD, made of two M.S. sheet of 1.6mm thick each of size 900 mm x 750mm stiffened by angel iron 25mm x 25mm x 3mm all around the plate and plates fixed on frame of 75mm dia pipe of 12 SWG sheet (vertical post 3050 mm with angle holdfasts and horizontal member 900mm) to be joined by 5mm thick MS plate at 12 places (65mm x 50 mm) duly embedded in C.C. M-15 Gr. of block of 600mm x 600mm x 750mm size below ground level as per enclosed drawings & as directed by Engineering - In - Charge. All MS will be stove enamelled on both side, lettering, figuring and border will be with ready mixed synthetic enamel paint of superior quality in required shade and colour etc. complete in all respect . All sections of framed post and steel tube will be painted with primer and two coat of epoxy paint as per drawing and as per MoRD Specification.				
			4	Nos	9847.00	39388.00
15	10.22	Providing and fixing Mukhya Mantri Sadak Yojana/ Mahatma Gandhi Rajya Sadak Yojana informatory sign board with logo for roads funded by State road fund having M.S. Definition plate of 1.60 mm thickness frame to steel hollow dsection of 75mm x 75mm, 2.5m long stove enamelled paint with hold fast including paint logo as per approved design and colours. The logo shall be made out of 1.6mm thick circular plate duly framed with MS angle 25x25x5 mm on back and fix on 1200mm x 150mm rectangular steel base plate 1.6mm thick, the base of circular shall be plain at the junction of base plate. The size of definition plate shall be 1500x600mm and embedding the posts by M-15 cement concrete block 45 cm x 45 cm x 60 cm, 60 cm below ground level including lettering / writing and painting etc. complete in all respect.as per MoRTH Specification Clause 801.	4	Nos	9069.00	36276.00
16	10.2 A (i)	<b>Retro- reflectorised Traffic signs</b> (Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRTH Specification Clause 801 900 mm equilateral triangle	15	Nos	5765.00	86475.00
17	10.2 A (III)	<b>Retro- reflectorised Traffic signs</b> (Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRTH Specification Clause 801 600 mm circular	15	Nos	5050.00	75750.00



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
18	10.3 A (i)	<b>Retro-reflectorised Traffic Signs</b> Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1. fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801. Direction and Place Identification signs upto 0.9 sqm size board				
		15x 1.20x0.90=16.20	16.20	Sqm	13272.00	215006.00
19	10.2 A (v)	<b>Retro- reflectorised Traffic signs</b> (Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRTH Specification Clause 801 600 mm x 450 mm rectangular	10.00	Nos	4917.00	49170.00
20	16.54	Supply of Swiss type of Hazard marker, made out of 2 mm thick M.S. sheet size of box is 15x15 cm with hold fast at bottom, the body is painted in orange stoving enamel paint with white/high intensity grade micro-prismatic type sheeting, on all four side.	15	Each	1160.00	17400.00
21	16.57	Supplying and Fixing 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.	1990	Each	266.00	529340.00
22	16.58	Supply of centerline Raised Pavement Marker (RPM) size 125 x75x20 mm made out of Aluminium alloy duly white powder coating paint with two side reflective having fixing provision with nail complete in all respect.	1000	Each	432.00	432000.00
23	16.65	Construction of Foundation / Inaugration Pedastal in 23 cm thick Brick masonry in CM 1:4 of size 1.20m x 1.80m above ground level with adequate foundation including providing and fixing of Granite stone of size 0.75m x0.60m with engraving letters and figures,cement plaster,white washing etc. complete as per direction of Engineer in charge.	1	Each	10605.00	10605.00
24	9.3E	<b>Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row</b> Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 2905. <b>300 mm dia</b>				
		10x19.50=195.00	195	Rmtr	736.00	143520.00
25	10.20	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 labour material and traffic diversion arrangements.				



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
		Center line= 2x1833x1.50x0.15=824.85				
		Edge line= 4x5500x1.00x0.15=3300.00				
		Total =4124.85	4124.85	Sqm	500.00	2062425.00
26	16.51	Supply of 'L' type Bollard made out of 1.25 mm thick M.S. sheet height 134 cm, welded in circular type ring section having upper dia 15 cm. and lower dia 21 cm with another attachment of 15x15 cm circular section with 15 cm. face plate and hold fast at bottom, whole body is processed in white stoving enamel and red reflective 3 hands, each of 7.5 cm end one reflective sheet of 15 cm. dia provided to it complete in all respect.	20.00	Each	2123.00	42460.00
27		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 MoRTH Specification Clause 301.3				
	3.5 (iii)		140.00	Cum	31	4340
28		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 firm 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 cost of design of RCC Precast Box and its proof checking from IIT / NIT / Government Engineer College complete in all respect as per specifications				
	17.9.2	Size 1.50 M x 1.50 M	190.00	P.Rmt.	23061	4381590.00
29	4.1 A (i)	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 MoRTH Specification Clause 401.s) for grading-I Material				
			49.88	Cum	512	25539
30	12.13 (C)	Providing PCC M-20 architectural coping on the top of wing wall, return wall etc. complete as per drawing and MoRTH specification Clauses 1313, 1411 and 2206.6				
		50 mm thick	45.00	Sqm	246	11070
31	11.4 III. (i)	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104. P.C.C grade M 20. Nominal mix (1:2:4)				
		Wing Wall	22.50	Cum	3515	79088
32	11.6 III. (ii)	Stone masonry work in cement mortar in foundation complete as per drawing and MoRTH specifications Clauses 1402, 1405, 2102 & 2104. Random Rubble Masonry				
		In 1:4 cement mortar	237.500	Cum	2994	711075



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
33	2.14 (II) (A)	<b>Dismantling of Flexible Pavements</b> Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 100 m, stacking serviceable and unserviceable materials separately as per MoRTH Specification Clause 202 By Mechanical Means Bituminous Courses & Granular Courses	2750.00	Cum	31	85250
34	3.1.6	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	687.50	Cum	3302	2270125
35	6.89	Supply and fixing Jodhpur sand stone Machine cut Kerb stone (10cm wide 40 cm. height) fixed in white cement sand mortar 1:4 with pigment including EarthWork.	10000.00	Rmt	857	8570000
36	H-1.3.1	Supply & Stacking good soil of earth at site complete including loading unloading & Transportation etc. Good soil of earth				
		In Between Median	1650.00	Cum	240	396000
37	9.8	Providing and fixing steel gate, grating , and grills made of angles, tees, square bars, flats, or black pipe with holdfast and fittings complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide@ 20 Kg/Sqm	176000.00	Kg	96	16896000
38	12.46	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	12.46.1	Two or more coats on new work	22000.00	sqm	69	1518000
39		Supply and erection of Galvanized Iron pole with galvanizing done in single dipping (Average coating thickness Minimum 65 Microns) continuously tapered poles having Octagonal / Circular/ Conical cross-sections designed to withstand the maximum wind speed as per IS 875, The pole shaft shall be made from sheet steel (HT Steel Conforming to grade S355JO) and confirming to BSEN 10025 and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding. The welding of pole shaft shall be done by Submerged Arc Welding (SAW) process. pole shafts shall be provided with the rigid flange plate of suitable thickness (Fe 410 conforming to IS 226 / IS 2062) with provision for fixing 4 no. foundation bolts, The base plate shall be fillet welded to the pole shaft at two locations i.e. from inside and outside. The octagonal Poles shall have hinged lockable door of approximate 500 mm length at the elevation of 500 mm from the Base plate with bakelite sheet having 6A SP MCB and 16 sqmm stud type connector ( 4 nos) inside the pole at door opening for cable connection of following length and dimension as per table P-01 for Octagonal & P-02 for Conical with base plate and foundation bolt on the Existing cement concrete foundation. To ensure quality of product it's entire manufacturing process starting from sheet cutting to galvanization should be done under one premises.				
	18.1.1.7	9 Mtr.	183.00	Each	16085	2943555
40		Supply and Fixing of Pole OEM fabricated hot dipped galvanised M.S. Overhang (48.3 X 3.25 mm) with cap ( 250x 88.9 / 114.3 x 3.25 mm) over the existing poles.				



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
	18.2.2	Double arm overhang	183.00	Mtr.	2358	431514
41		Providing and Laying RCC Foundation for Octagonal / Conical Street Light poles as per Drawing attach at Table P-05 with Following Procedure				
		A) Excavation of Pit for Foundation Size upto required depth from Ground level				
		B) Dressing of Pit and Dry stone pitching 200 mm thick including supply of stones and preparing surface complete.				
		C) Providing and laying in position cement concrete of M-10 grade of 75 mm thickness				
		D) Reinforcement for R.C.C. work with TMT bars including straightening, cutting, bending, placing in position and binding all complete.				
		E) Centring and shuttering including strutting , propping etc. and removal of form work for Footing and Pedestal				
		F) Providing & Fixing of 2 no. Required Size PLB HDPE Pipe & Foundation Bolt with template as per OEM Recommendations.				
		G) Providing and Laying Reinforce cement Concrete of M-20 grade in Footing and Pedestal including Curing the foundation for minimum 7 days.				
		H) Providing and Fixing Nosing Angle 25 mm x 25 mm x 3mm with 2 no. of 100 mm long, 6 mm dia fastener				
	18.8.2	Pole Foundation for Octagonal pole from 7 Mtr. To 9 Mtr.	183.00	Each	4959	907497
42		Providing & Fixing of IK08, IP 66 protected LED Street Light Luminaire on existing bracket/pole. Fixture made of powder coated single piece pressure die cast aluminum material with heat dissipation fins on housing with UV stabilized PC (UV stablization report submitted for UV cover ) /Toughened Glass cover and secondary lens on each LED/ integrated lens diffuser & should be High power LED of 3 to 5 watt each . The System efficacy $\geq 125$ lm/ wt and integrated metal case potted driver & has a unique BIS R number ( as per IS 15885) with Input Voltage AC 120 to 270 V AC with High voltage Cutoff $\geq 300$ V AC & Low Voltage cutoff $\geq 90$ V AC and Auto resetting Safety , Power Factor $>0.95$ driver Efficiency $>85\%$ ,THD(I) $<10\%$ Humidity 10% to 90% RH Working Temp - 5C to 45C . LED driving output current $<750$ mA. The luminaire shall be BIS certified (Fitting & driver both have separte BIS R number) and Trade mark certified. Life Expectancy Equal or more than 50000 burning hrs with Minimum 70% lumen maintained , CRI $>70$ and CCT 5700K +355K. Surge protection shall be min $\geq 4$ KV internal and min 10 KV external inside driver compartment. driver should be Phase to phase protection of 440 V for 4 Hrs as required.				
	18.13.7	LED Street Light fixture with Minimum lumen output 12500 lm	366.00	Each	5474	2003484
43		Providing & Laying XLPE insulated & P.V.C. sheathed Armoured Aluminium cable confirming to IS :7098 P - I of 1.1 KV with H4-Grade electrolytic aluminium conductor confirming to IS 8130 of purity $>99.6\%$ , round / flat strip armouring of cables, Inner / outer sheath confirming to IS:5831 in existing RCC / Hume / Stoneware / PVC pipe/ open duct/cable trench / Cable tray(with cable tie) including testing commissioning etc. as required of following size.				
	11.2.5.3	3.5 core	6050.00	Mtr	264	1597200
44		SITC of Copper Bonded rod Earthing with high tensile strength (more than 600 N / sq.mm low carbon steel rod molecularly bonded with Copper thickness (250 microns) and confirming to UL 467 of following size and length and as per point mentioned (a), (b), (c), (d), (e) below :-				
		(a) Bore a hole of dia. 100 mm of required length, Place the rod in the centre of Hole				



S.N.	BSR Item No.	Particulars of Items	Qty.	Unit	Rate	Amount
		(b)Earth enhancing compound to ensure the moisture content and electrical conductivity, 25 kg for 3000 mm. The compound shall be tested form NABL accredited lab for low resistivity (less than 0.12 Ohm - meter) & high conductivity in nature with carbon as a major content in accordance with IEC 62561-7				
		© Connect the rod with copper Strip/Conductor/Wire with suitable clamp made from tinned copper and SS 304 Bolt				
		(d) Place Heavy duty weather proof poly-propylene earth inspection chamber as per requirement of IS/IEC 62305 and tested as per IEC 62561-5 with lockable Jam free lid suitable for safe working load 60 kN of round / square size 250 mm, and Height 250 to 300 mm.				
		(e) Testing of earth resistance for value of 5 ohms or less as required.				
		(f) Test certificates for confirming above standards from OEM is mandatory.				
	14.4.1	17.2 mm thick and 3 Mtr. Long	187.00	Set	7157	1338359
45		Supply & Laying following size earth wire in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, makingconnection with GI/Cu purity purity >95% himble etc. as required.				
	14.7.9	10 SWG G.I. ( Hot Dipped ) Wire	6050.00	Mtr	21	127050
46	8.1	SITC of IP-42 and general construction confirming to IS:8623 : 1993, wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel as specifications and Other parameters required as per point (a) ,(b), (c),(d), (e), (f), (g), (h) as below:-				
		(a) Thickness of CRCA sheet shall not be less than 1.6 mm upto 450 mm length/ width of any compartment and be 2.0 mm above 450 mm, load bearing structure shall be 2.0 mm thick sheet supported by base M.S. channel if required, cable alley compartments having concealed hinged type doors with key type lock with / without detachable extension type structure. Removable 3 mm. thick sheet steel gland plates with appropriate size of knockouts for cables shall be provided				
		(b) complete panel shall undergo a process of degreasing, Water rinsing, Activation, derusting, pickling in acid bath, phosphatising & shall be subjected to nine tank process and then Powder coated with approved shade of minimum 70 microns on both side(Inner & Outer side) of panel. The panel having PE foam/ Neoprene rubber gasket of not less than 3mm thickness ,required hardware , concealed hinged door with key type locking arrangement for equipment/switchgear earthed with 2.5 sq.mm braided copper wire.				
		(c) Interconnection between bus bar and switchgears /cable shall be rigidly supported and made out by flexible copper wires (up to 63 amp ) and by solid bus bar (>63 amp ) . control wiring will be carried out with 1.5 Sq.mm, Earth wire with 2.5 Sq.mm and CT with 2.5 sq.mm flexible copper wire only. All joints / interconnections of copper bus bar shall be dully tinned . Clearance between main bus bar and risers / metal parts shall be at least 10 mm additional to width of bus bar Bus bar is insulated by Heat Shrinkable sleeves . Earth and Neutral bus bar shall be half of the size of phase bus bar. ( Cost of Bus bar / Flexible wire for Interconnection between Main busbar and Switchgear is to be Paid Extra )				



		(d) Wiring between components within switchgear and Incoming / outgoing cable shall be done through the terminal block only. Direct connection shall not be permitted. Each terminal block shall be one piece moulded, barrier type, 650 volt grade, complete with washers, heads, studs with two nuts and identification strips and shall have adequate continuous current rating. For tap-offs, adjacent terminals with shorting strips shall be used. 10% Spare terminal blocks shall be provided. Wire identification on marking strip shall correspond to the designation of the wiring diagrams. All wire terminals on the equipment shall also be marked with designation corresponding to those of the wiring diagram.				
		(e) All wiring shall be enclosed in plastic channels and neatly bunched and closed in metering chamber, Wiring between terminals of various devices shall be 'point to point' (no wire splitting or tee connections) with wires neatly trucked along the back of the panels, adequately supported to prevent sagging.				
		(f) Floor mounted panel shall be mounted on Base frame of ISMC channel size 100 x 50 x 5 mm ( to be paid Extra )				
		(g) Tests: The insulation resistance (with 1000 V Megger) and High voltage Power frequency test (by applying a voltage of 2.5KV for one minute) shall be measured between phases, between phase and neutral and between phase and earth. both before and after high voltage power frequency test. The insulation resistance shall not be less than three megaohm. CT Secondary current injection test shall also be carried out.				
		(h) only outer surface area on all sides shall be measured & panel to be fabricated only from CPRI approved fabricator only (CPRI type Test certificates for Temp. rise test, Short circuit test for 50 kA and IP test is to be submitted)	9.00	Sqm.	5575	50175
47		Supplying and fixing of Aluminium (IEC 60105 ISO 209-1,2) / Copper (IEC 60028) bus bar by means of SMC / DMC type insulator, with short circuit withstand capacity of 31 MVA for 1 Sec. , high tensile nuts and bolts spring washers in existing panel including bending , cutting in required shape and size and colour coding with heat shrinkable PVC sleeves.				
	8.2.1	Electrolytic grade Aluminium bus bar 6010 grade	18.00	Kg.	559	10062
48		SITC of 3 /4 pole current limiting Moulded case circuit breaker (MCCB) made of flame retardent & heat resistant material having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings , conforming to IS/IEC 60947 P -2 :2003 with front face and centralised adjustable, trip free mechanism, true contact position indicator, designed for both horizontal & vertical mounting without any adverse effect on electrical performance, suitable for operation from 50 to 55 degree and without derating upto 40 degree, pollution degree 3, having positive isolation capability, push (test) to trip, trip time less then 10 ms under s/c condition, Breaking capacity Ics = 100% Icu. U imp =8 KV, rated insulation voltage 690V. provision for UVR , shunt trip , earth fault trip, door interlock, pad lock & rotary handle ( to be paid extra) , including making connections etc. as required. OEM shall have submit NABL / CPRI / ERDA/ Intertek accredited lab type test certificate.				
		3 pole MCCB With Thermal Magnetic release				
	9.3.1.1	up to 100 Amp , 10 kA, fixed O/L & fixed S/C setting	7.00	Each	1506	10542
	9.3.1.5	200 Amp , 25 kA, adjustable O/L & fixed S/C setting,	2.00	Each	11461	22922
		Add 18% GST for Street Light Work :				1699624.80
		Total Rs:				120110137.36



नियम एवं शर्त :-

1. बिना बिड़ सुरक्षा राशि एवं सशर्त बिड़ मान्य नहीं होगी।
2. बिड़ सुरक्षा राशि **Online SSO ID** के माध्यम से जमा कराने पर ही बिड़ विक्रय की जायेगी/मान्य होगी।
3. बिड़ पूर्णतः बिना कारण बताये स्वीकार/अस्वीकार करने का अधोहस्ताक्षरकर्ता को अधिकार होगा।
4. बिड़ विक्रय/प्राप्ति के अवकाश होने पर बिड़ स्वतः आगामी कार्य दिवस को प्राप्ति/विक्रय कर खोली जायेगी।
5. बिड़ से सम्बन्धित अन्य आवश्यक शर्तें कार्यालय समय में देखी जा सकती हैं।
6. बिड़ सुरक्षा राशि सचिव, नगर विकास न्यास, बालोतरा के नाम से **Online SSO ID** से जमा होगी।
7. टंकण एवं दर में किसी प्रकार की त्रुटी होने पर संशोधन **BASED ON PWD Unified Road BSR 2025-26& PWD Electrical BSR 2025** अनुसार मान्य होगा।
8. 'G' Schedule पर केवल **% Above/Below** दरे ही स्वीकार्य होगी।
9. कार्य की गुणवत्ता जांच बिड़र द्वारा निर्धारित माप दण्डों के अनुरूप स्वयं के खर्च पर करानी होगी।
10. बिड़र को **GSTIN Number** प्रमाण-पत्र अपलोड करना आवश्यक है।
11. बिड़ के साथ अनुलग्न परिशिष्ट **A,B,C,D** बिन्दु के भाग है, जिसकी पूर्ति अनिवार्य है।
12. कार्य की दोष निवारण अवधि पांच वर्ष की रहेगी।
13. कार्य करने की अवधि 12 महीने रहेगी।
14. **Any electrical work should be executed through an agency either directly /indirectly by electrical licence holder.**

संवेदक को ऑनलाईन बिड़ के साथ सम्बन्धित विभागीय अधिकारी से जारी पीएफ (PF) रजिस्ट्रेशन की छायाप्रति संलग्न करनी आवश्यक होगी। संवेदक/फर्म द्वारा यदि पीएफ (PF) रजिस्ट्रेशन की आवश्यकता नहीं होने पर राशि रु. 100/- के स्टाम्प पर पीएफ रजिस्ट्रेशन की आवश्यकता नहीं होने सम्बन्धी अपडेटिंग दी जानी अनिवार्य रहेगी अन्यथा बिड़ पर विचार नहीं किया जायेगा।


16. As per the Finance (G&T) Department notification no. Asvina-30 Friday, Saka1943-October 22,2021, Jaipur, G.S.R.-364 -in exercise of the power conferred by section 55 of the Rajasthan Transparency in Public Procurement Act.2012 (Act No. 21 of 2012), the state Government hereby makes the following rules further to amend the Rajasthan Transparency in Public Procurement Rules, 2013, namely :-

75A Additional Performance Security (1) In addition to Performance Security as specified in rule 75,an additional performance security shall also be take from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to fifty percent of unbalanced Bid Amount. The Additional Performance Security shall be deposited in lump sum by the successful bidder before execution of Agreement. The Additional Performance Security shall be deposited Demand Draft, Banker's Cheque, Government Securities or Bank Gurantee.

17.उपरोक्त कार्य हेतु संवेदक को इस तरह के कार्य का अनुभव होने का दस्तावेज संलग्न करना आवश्यक होगा।

19.संवेदक को उक्त कार्य से संबंधित सभी प्रकार की डिजाईन एवं ड्राईंग अपने खर्च पर करवानी होगी।

20.विद्युत संबंधी कार्यों में प्रयुक्त होने वाली सामग्री की गुणवत्ता की जांच **C.T.L JdVVNL** से भी संवेदक द्वारा स्वयं के खर्च पर करवानी आवश्यक होगी।

  
EXECUTIVE ENGINEER  
URBAN IMPROVEMENT TRUST  
BALOTRA

I/We hereby agree  
to do the above work @ \_\_\_\_\_

GST No.....  
PAN No. ....

Signature of contractor