

# कार्यालय, नगर पालिक निगम, कोरबा (छत्तीसगढ़)

क्र.क. 1366 / 2024

सिस्टम टेंडर नं. 156212

कोरबा दिनांक 18.07.2024

## द्वितीय ई-निविदा आमंत्रण सूचना

कार्यालय नगर पालिक निगम, कोरबा द्वारा लोक निर्माण विभाग एकीकृत पंजीयन प्रणाली अंतर्गत सक्षम श्रेणी में पंजीकृत ठेकेदारों से प्रमुख अभियंता लोक निर्माण विभाग, रायपुर द्वारा भवन कार्य हेतु दिनांक 01.01.2015 से प्रभावशील दर अनुसूची पर (निविदा खुलने के दिनांक तक समस्त संशोधनों के साथ शेड्यूल अनुसार प्रतिशत दर पर ई-प्रोक्युरमेंट (E-Tendering) के माध्यम से निविदा प्रपत्र फार्म A में निविदा आमंत्रित की जाती है :-

क्र.	कार्य का नाम	प्राक्कलन राशि (लाख में)	धरोहर राशि (FDR/TDR)	कार्यावधि	निविदा प्रतिभागी शुल्क (DD)	ठेकेदार का वर्ग	निविदा खुलने की तिथि
1	नगर पालिक निगम क्षेत्रांतर्गत निर्मित बाल सुधार गृह तक सीसी रोड, नाली, पार्किंग शेड निर्माण कार्य। (जिला खनिज न्यास मद)	153.08	115000/-	6 माह	3000/-	वर्ग सी एवं प्रवर श्रेणी	06.08.2024 से .....

शर्त:-

- निविदा दरे प्रचलित सी.एस.आर.से कम या अधिक प्रतिशत दरों पर दिया जावे सी.एस.आर.के अंतर्गत के आयटमों पर पृथक से आयटम दरों का उल्लेख करने पर निविदा निरस्त मानी जावेगी
- जिन ठेकेदारों द्वारा नगर पालिक निगम (साडा) के किसी ठेके के कार्य में अनुबंध के अनुरूप कार्य न किया गया हो अथवा नगर पालिक निगम (साडा) के हित के विरुद्ध कार्य किया गया हो उन्हें निविदा भरने की पात्रता नहीं होगी।
- इच्छुक ठेकेदारों को उचित वर्ग में पंजीयन की प्रमाणित प्रतिलिपि यदि साझेदारी फर्म हो तो उसका प्रमाण पत्र (पार्टनरशीप डीड) की सत्य प्रतिलिपि, उपलब्ध तकनीकी अमले की जानकारी, विगत 3 वर्षों का आयकर चुकता प्रमाण पत्र/पेन नम्बर, जी.एस.टी. पंजीयन प्रमाण पत्र एवं अमानत राशि के FDR/TDR की प्रति ऑनलाईन अपलोड करना अनिवार्य होगा, प्रशिक्षित यंत्री नियुक्त करने संबंधी प्रमाण पत्र, कर्मचारी भविष्य निधि रायपुर से पंजीकरण का कोड, निविदा प्रतिभागी शुल्क का डिमाण्ड ड्राफ्ट एवं धरोहर राशि FDR/TDR, शपथपत्र का स्कैन कापी ऑन लाईन सिस्टम पर अपलोड करना अनिवार्य होगा।
  - अमानत राशि का वैध FDR/TDR, निविदा प्रतिभागी शुल्क का DD एवं शपथ पत्र की मूल प्रति लिफाफा में कार्य का नाम एवं अन्य विवरण अंकित कर केवल स्पीड पोस्ट/रजिस्टर्ड डाक के माध्यम से निविदा खुलने की तिथि में दोपहर 3.00 बजे तक आयुक्त, नगर पालिक निगम, कोरबा साकेत भवन, आई.टी.आई. चौक रामपुर कोसाबाड़ी पिन- 495677 कोरबा को उपलब्ध कराना अनिवार्य होगा।
  - निविदाकार को प्रत्येक निविदा में पंजीयन क्षमता के अंतर्गत वर्तमान में नगर निगम या अन्य विभागों में उनके द्वारा किये जा रहे कार्यों का विवरण राशि सहित मूलप्रति में वैध शपथपत्र (राशि रु. 100/- नॉनज्यूडिशियल स्टाम्प) निविदा आमंत्रण दिनांक के पश्चात का, निविदा क्रमांक एवं कार्य का नाम अंकित करना अनिवार्य होगा।
  - अमानत राशि का FDR/TDR एवं निविदा प्रतिभागी शुल्क का DD जो कि आयुक्त, नगर पालिक निगम, कोरबा के नाम पर देय हो प्रस्तुत करना अनिवार्य होगा।
- सम्पूर्ण किये गये कार्यों के लिए प्रत्येक चल देयकों में से 5 प्रतिशत सुरक्षा राशि 01 वर्ष के लिए एवं मरम्मत एवं संधारण मद को छोड़कर शेष कार्यों में 5 प्रतिशत परफार्मेंस सिक्यूरिटी की गारंटी के रूप में से 03 वर्ष के लिए रोकी जावेगी।
- जिन निविदाकारों द्वारा कर्मचारी भविष्य निधि संगठन एवं कर्मचारी राज्य बीमा निगम, रायपुर से पंजीयन कराकर कोड प्राप्त कर लिया हो वे निविदाकार ही निविदा हेतु पात्र होंगे।
- निविदा में भाग लेने वाले ठेकेदारों को छ.ग. भवन और अन्य सन्निर्माण कर्मकार (नियोजन एवं सेवा शर्तों का विनियमन) अधिनियम 1996 एवं तदअंतर्गत निर्धारित नियमों के तहत पंजीयन कराना आवश्यक होगा तथा निर्माण लागत का 1 प्रतिशत उपकर के रूप में प्रत्येक देयक से कटौती की जावेगी।
- ईट से संबंधित निर्माण कार्यों में फ्लाइंग एश ब्रिक का उपयोग किया जाना अनिवार्य होगा।
- प्रयुक्त लोहा का बिल एवं टेस्ट रिपोर्ट तथा प्रयुक्त सीमेंट का बिल संलग्न करना अनिवार्य होगा।
- निविदा दरों असामान्य कमी प्रतीत होने पर सफल निविदा दाता से अनुबंध के पूर्व एस.ओ.आर. एवं निविदा दर की अंतर की राशि के समतुल्य परफार्मेंस गारंटी के रूप में राष्ट्रीयकृत बैंक एफ.डी.आर., पोस्ट ऑफिस, टाईम डिपॉजिट अथवा एन.एस.सी. जो कि आयुक्त नगर पालिक निगम, कोरबा के नाम पर देय होगा जो मांग तिथि से 15 दिवस के भीतर जमा करना अनिवार्य होगा। उपरोक्त राशि समयावधि में जमा न करने की दशा में निविदा स्वमेव निरस्त मानी जावेगी।
- निविदा अहस्तांतरणीय होगा एवं सशर्त निविदाओं पर विचार नहीं किया जावेगा।
- निविदा प्रपत्र फार्म -ए की कडिका 11 अनुसार एस्कलेशन देय नहीं होगा।
- निविदा के संबंध में किसी प्रकार की विवाद होने की स्थिति में आयुक्त का निर्णय अंतिम एवं सर्वमान्य होगा।
- निविदा स्वीकृत करने अथवा अस्वीकृत करने अथवा निरस्त करने का अधिकार नगर पालिक निगम के पास सुरक्षित रहेगा।
- उपरोक्त निविदा सूचना की विस्तृत प्रति नगर पालिक निगम, कोरबा के साकेत भवन स्थित निर्माण शाखा से प्राप्त किये जा सकते हैं।
- ठेकेदारों को निर्माण कार्य के दौरान निर्माण एवं अपशिष्ट प्रबंधन नियम 2016 में किये गये प्रावधानों का पालन करना होगा।
- ठेकेदार द्वारा संपादित किए गए कार्यों के देयकों का भुगतान बजट आबंटन और राशि उपलब्ध होने पर किया जाएगा।

कार्यपालक अभियंता

नगर पालिक निगम


कोरबा (छत्तीसगढ़)

प्रतिलिपि-

प्रोग्रामर, संचालनालय, नगरीय प्रशासन एवं विकास विभाग, रायपुर को uad.cg.gov.in में अपलोड करने हेतु प्रेषित।

### Date-Time Detail(s)

Seq. No.	Nagar Nigam Stage	Contractor Stage	Start		Expiry		Remarks
			Date	Time	Date	Time	
1	Release Tender		18.07.2024	9.00	18.07.2024	10.00	Release Tender
2		Bid Submission	18.07.2024	10.00	05.08.2024	17.30	
3		Physical Document Submission	18.07.2024	10.00	06.08.2024	15.00	
4	Tender Open		06.08.2024	16.00	--	--	

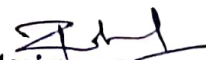
  
EXECUTIVE ENGINEER  
KORBA (CG)  
For, Commissioner Korba (C.G.)



		In Cement Mortar 1:6 ( 1 cement : 6 fine sand)								
		wall	1.00	54.60		0.60	32.76			
			2.00	0.30		0.60	0.36			
							33.12	Sqm	91.50	3030.48
7	11.3.4	Providing and making 15 mm thick cement plaster on the rough side of single or half brick wall of mix								
		In cement Mortar 1:6 ( 1 cement : 6 fine sand)								
		wall	1.00	54.60		0.60	32.76			
			1.00	0.30		0.60	0.18			
							32.94	Sqm	107.00	3524.58
8	12.36	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of								
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks	1	31.00	12.30		381.30			
							381.30	sqm	632.00	240981.60
9		Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35-1997. The finished surface to be level, uniform and free from streaks and holes.)								
		for both side Stam Concrete marking Item No. 8.13	4	30.00		0.30	36.00	Sqm	707.00	25452.00

10	Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause								
	6 m wide road	2	67.90			135.80	rmt	383.00	52011.40
									588416.91

  
**SUB ENGINEER**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**

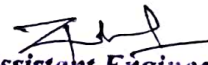
  
**Assistant Engineer,**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**

MUNICIPAL CORPORATION										
DETAILED ESTIMATE OF PARKING SHED AND TRUSS WITH FOUNDATION, DIST. - KORBA (C.G.)										
[ As per P.W.D. - Building S.O.R. In Force From 1 January 2015 ]										
S/No	S.O.R	Description of Items.	NOS.	L	B	D/H	QUANTITY	Unit	Rs.Rate In	AMOUNT
1	1.1.1	Excavation for all types and sizes of foundation, trenches and drains or for any other purpos including disposal of excavated stuff upto 1.5 m lift and upto 50 m (at least 5m away from the excavated area), including dressing and leveling of pits								
			20	1.80	1.80	1.50	97.20			
							97.20	Cum	185.00	17982.00
2	1.18	Providing and filling in plinth with sand/Crusher dust and hard moorum under floor in layers not exceeding 20 Cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
			20	1.80	1.80	0.15	9.72			
							9.72	Cum	371.00	3606.12
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).								
			20	1.80	1.80	0.15	9.72			
							9.72	Cum	2970.00	28868.40
4	3.3	Providing and laying design mix reinforcement cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto floor five level excluding cost of reinforcement and form work.								
	3.3.2	M-20 Grade	20	1.50	1.50	0.35	15.75			
		FOOTING	20	0.40	0.40	1.80	5.76			
		COLUMN	20	0.40	0.40	4.00	12.80			
		COLUMN	2	90.00	0.30	0.40	21.60			
		BEAM(30+30+12.3+12.3)					55.91	Cum	4231.00	236555.21
5	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to same quantity					55.91	CUM	97.50	5451.23
6	3.12.1	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: hermo-Mechanically Treated (TMT) Bars					55.91			
		120 Kg / cum. of R.c.c. work					6709.20	KG.	54.50	365651.00

7	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels for											
	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.											
		PCC	20.00	7.20		0.15	21.60						
		footing	20.00	6.00		0.35	42.00						
		column	20.00	1.60		1.80	57.60						
		beam size:300*400	1.00	90.00		1.10	99.00						
							220.20	SQM	139.00			30607.80	
8	2.1.5	columns, Pillars, piers and likes-rectangulay or square in shape in size.											
		for column up to slab lvl.+Prapet lvl											
		For Main Column A	20.00	1.60	-	4.00	128.00						
							Total	128.00	sqm.	297.00		38016.00	
9	2.1.8	Beams ,Lintels, Cantilevers & walls											
		Slab Beam											
		size:300*400	1.00	90.00	-	1.10	99.00						
							Total	99.00	Sqm.	202.00		19998.00	
10	9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.											
	9.3.1	Electric resistance or induction butt welded tubes Grade-250											
		MAIN TRUSS TOP & BOTTOM	9	26.00		11.52	2695.68						
		SIDE	9	3.00		11.52	311.04						
		50X50X32(VERTICAL)	14	1.50		4.93	103.53						
		50X50X32(HORIZONTAL)	14	1.50		4.93	103.53						
		PURLINE (75X75X4)	14	31.60		4.93	2181.03						
							5394.81						
		EXTA FOR CONNECTION 20%	20%				1078.96						
							6473.77	88.50	Per kg	572929.03			
11	10.1	Providing corrugated G.I. sheet roofing including vertical/ curved surfaces fixed with galvanized iron, J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead including painting with primer and paint on overlapping of sheets complete excluding the cost of purlins rafters and trusses (Zinc coating not less than 272 gms/sqm)											
	10.1.1	1.00 mm thick sheet (weight 8.60 kg/m2)	1	31.60	13.00		410.80	964.00	Per Sqm	396011.20			

12	10.5	Providing ridges or hips of 60cm overall width in plain G.I. sheet fixed with galvanized washers J or L hooks, bolts and nuts 8mm G.I. limpet and bitumen washers complete.								
	10.5.1	1.00 mm thick sheet with zinc coating not less than 275gm/sqm								
			1	31.60	1.00		31.60	596.00	Per Sqm	18833.60
							TOTAL			1734509.59

  
**SUB ENGINEER**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**

  
**Assistant Engineer,**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**



**MUNICIPAL CORPORATION**

**KORBA (C.G)**

**DETAIL ESTIMATE FOR CONSTRUCTION OF ROAD DEVELOPMENT JUVENILE CORRECTION CENTER AT - KORBA**

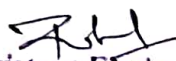
S.No.	SOR Item No.	PARTICULARS	No.	L	B	D	QTY.	UNIT	RATE	AMOUNT
<b>ROAD2015</b>										
1	3.1	Excavation in Soil (by Manual Means.) Excavation for roadway in soil using including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of								
		6 m wide road	1	470.00	7.00	0.50	1645.00			
			1	20.00	3.00	0.30	18.00			
							1663.00	Cum	140.00	232820.00
2	3.13	Construction of sub-grade with Material Obtained from Borrow Pits/Borrow Area (Construction of sub-grade with approved material/selected soil having C.B.R.>8 (unless specified otherwise in the contract) 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)								
		6 m wide road	1	470.00	6.30	0.30	888.30			
			1	20.00	3.00	0.30	18.00			
							906.30	Cum	250.00	226575.00
4	4.1	Granular Sub base as per Table :- 400 - 1								
		Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401								
4-a		A Plant mix method (with Mechanically crushed stone only)								
		(a) For Lower Sub-base with								
		(i) Grading-III Material								
		6 m wide road	1	470.00	5.70	0.30	803.70			
		Extra for Entry and Connecting parking road	1	20.00	3.00	0.30	18.00			
							821.70	Cum	1423.00	1169279.10
5	4.10	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 mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per clause 406.)								
		6 m wide road	1	470.00	5.10	0.20	479.40			
			1	20.00	3.00	0.30	18.00			
							497.40	Cum	1434.00	713271.60

S.No.	SOR Item No.	PARTICULARS	No.	L	B	D	QTY.	UNIT	RATE	AMOUNT
5	4.13	Construction of Shoulders (Construction of shoulders as per clause 408 with selected soil from borrow pits / borrow areas having CBR not less than 12 and shall have L.L. and P.I. not more than 25% and 6% respectively, inclusive of all leads and lifts, including clearing and scrapping of existing surface, providing required cross fall, compacting, watering rolling and royalty charges etc. complete								
		<b>A With vibratory roller</b>								
		6 m wide road	2	470.00	1.00	0.65	611.00			

S.No	SOR Item No.	PARTICULARS	No.	L	B	D	QTY.	UNIT	RATE	AMOUNT
							611.00	Cum	460.00	281060.00
6	6.1	Dry Lean Cement Concrete Sub-base as per IRC:SP 49 (Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing as per clause 601.) item no. 6.1								
		6 m wide road	1	470.00	5.10	0.10	239.70			
			1	20.00	3.00	0.30	18.00			
							257.70	Cum	2332.00	600956.40
7	6.2	Cement Concrete Pavement (Construction of unreinforced, dowel jointed, plain cement concrete pavement as per IRC:58 over a prepared sub-base, coarse and fine aggregate conforming to IS:383 and graded as per table 600-3 mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as								
		ii) With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.								
		6 m wide road	1	470.00	4.50	0.25	528.75			
							528.75	Cum	4750.00	2511562.50
8	3.18	Providing and filling in position, blown bitumin in expansion joints per cm. depth and per cm. width.								
		in every 3 m.								
		(Page - 24, Item - 3.18( BUILDING SOR))								
		6 m wide road	1	470.00	0.25		117.50			
			1	20.00	3.00	0.30	18.00			
							135.50	rmt	5.10	691.05
9	8.13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35-1997. The finished surface to be level, uniform and free from streaks and holes.)								
		for both side Stam Concrete marking	2	470.00	0.15		141.00			


S.No.	SOR Item No.	PARTICULARS	No.	L	B	D	QTY.	UNIT	RATE	AMOUNT
				70.50			70.50			
							211.50	Sqm	707.00	149530.50
9	8.2	Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 409)).								
		6 m wide road	2	470.00			940.00			
			2	20.00			40.00			
							980.00	rmt	383.00	375340.00
	8.46	Providing and fixing of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro-prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0oC to 70oC. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as								
			940				940.00			
		SIGNAL(470*2					940.00	Each	3500.00	3290000.00
									Total Rs	9551086.15


  
**SUB ENGINEER**  
Municipal Corporation,  
KORBA (Chhattisgarh)

  
Assistant Engineer,  
Municipal Corporation,  
KORBA (Chhattisgarh)

**MUNICIPAL CORPORATION  
KORBA (C.G.)**  
**DETAILED ESTIMATE FOR CONSTRUCTION OF R.C.C. DRAIN FOR JUVENILE CORRECTION CENTER AT - KORBA  
(R.C.C DRAIN 600x600MM) DRAIN NO.-1 TOTAL LENGTH**

S. No.	S.O.R. NO.	Item	Nos	L.	B.	D.	Quantity	Unit	Rate	Amount
1		<b>3.20 Construction of RCC open drain</b>								
i	SOR 3.20.11	Construction of RCC open drain 600MM x 600 Mm inside dimension lined with 150 mm thick RCC M-20 walls, 150 mm thick CC M-20 foundation, over 100 mm thick (Av) leveling course in FCC M-15 including excavation, dressing of sides and bottom, provision of HYSD reinforcement consisting 10 mm dia horizontal bars @ 150 mm c/c and L-shaped 10 mm dia vertical bars @ 150 mm c/c (L=1400 mm) including cutting, bending and binding wire, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and	2	100.00			200.00	meter	2592.00	518400
2		<b>3.25 Construction of RCC Drain Cover Chamber</b>								
		a) Construction of RCC drain chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement with RCC M-20	2	100.00	0.80	0.20	32	Cum		
		For Road					32.00	Cum	4146.00	132672
									To SAY	651072
									<b>Total Rs</b>	<b>651072</b>

  
**SUB ENGINEER**  
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**Assistant Engineer,**  
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**KORBA (Chhattisgarh)**



		size:200*400	1	18	0.20	0.40	1.44						
						<b>Total</b>	<b>7.50</b>	<b>CUM</b>	<b>4163.00</b>	<b>31222.50</b>			
7	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:											
		same quantity						<b>7.50</b>	<b>CUM</b>	<b>97.50</b>	<b>731.25</b>		
8	3.12.1	Providing and placing in position reinforcement for R C C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: hermo-Mechanically Treated (TMT) Bars						<b>11.72</b>					
		100 Kg / cum. of R c c. work						<b>1171.60</b>	<b>KG.</b>	<b>54.50</b>	<b>63852.00</b>		
9	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels											
	2.1.1	Foundations, footings, base of columns, plinth beam, Curtain Wall in any shape and size and all type of wall below plinth level											
		For Main Column A	4	5.20	-	0.40	8.32						
		<b>for column up to plinth lvl.</b>											
		For Main Column A	4	1.20	-	1.30	6.24						
		<b>Plinth beam</b>											
		size:GB2 (200*300)	1	16.50	-	0.70	11.55						
						<b>Total</b>	<b>26.11</b>	<b>sqm.</b>	<b>139.00</b>	<b>3629.00</b>			
10	2.1.5	columns, Pillars, piers and likes-rectangulay or square in shape in size.											
		for column up to slab											
		For Main Column A	4	0.90	-	3.00	10.80						
						<b>Total</b>	<b>10.80</b>	<b>sqm.</b>	<b>297.00</b>	<b>3208.00</b>			
11	2.1.13	Weather shade chhajja ,cornices and mouldings.											
		<b>chhajja</b>											
		grill around	1	18.00	0.70	-	12.60						
		SIDE	2	0.60	0.10	-	0.12						
						<b>Total</b>	<b>12.72</b>	<b>sqm.</b>	<b>294.00</b>	<b>3740.00</b>			
12	2.1.8	Beams ,Lintels, Cantilevers & walls											
		<b>sitiing around</b>											
			1	16.50	-	0.60	9.90						
		<b>Slab Beam</b>											
		size:200*400	1	18.00	-	1.00	18.00						
						<b>Total</b>	<b>27.90</b>	<b>Sqm.</b>	<b>202.00</b>	<b>5636.00</b>			
13	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)											
		platform	1	16.50	0.70	-	11.55						
						<b>Total</b>	<b>11.55</b>	<b>sqm.</b>	<b>235.00</b>	<b>2714.00</b>			
14	7.5.5	Brick work with modular FLY ASH lime bricks (Falg brick) confirming to ISI 12894:2002 of class designation 40 in foundation and plinth in:Cement Mortar 1:6 (1 cement : 6 coarse sand)											
		UP TO GD BEAM	1	16.50	0.20	0.20	0.66						
						<b>Total</b>	<b>0.66</b>	<b>cum.</b>	<b>3163.00</b>	<b>2088.00</b>			





23	3.15	Applying a coat of hot bitumen VG-10 using @ 1.7kg/ sqm on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil							
		Outer	1	18	0.20	-	3.60		
							<b>Total</b>	<b>3.6</b>	<b>sqm. 93.5 337.00</b>
24	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.							
		Outer	1	18	-	1.50	18.00		
							<b>Total</b>	<b>18.00</b>	<b>sqm 273.00 4914.00</b>
25	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming of red oxide zinc chromate primer.							
		MS grill (Column deduction)	1	15.30	-	1.50	22.95		
							<b>22.95</b>	<b>sqm.</b>	
							<b>20 kg /sqm</b>	<b>459</b>	<b>KG. 67.5 30983.00</b>
26	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.							
		200 mm th. wall	1	16.00	-	1.00	16.00		
							<b>Total</b>	<b>16.00</b>	<b>sqm 86.00 1376.00</b>
27	12.4	15mm thick Marble stone tile flooring over 18mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including grinding rubbing and polishing etc. complete. (Area of tile should be 0.18 sqm and above)							
	12.40.5	Udaipur green marble							
		PLATFORMS	1	16.50	0.70		11.55		
		step (tread)	2	2.00	1.00		4.00		
		riser	2	4.00	0.15		1.20		
							<b>Total</b>	<b>16.75</b>	<b>sqm 851 14254.00</b>
28	12.13.1	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete. (Size 600x600mm)							
		ROOM	1	5.00	4.00		20		
							<b>Total</b>	<b>20</b>	<b>sqm. 1151 23020.00</b>
29	14.22.2	Painting on new work ( two or more coats ) to give an even shade with premium synthetic enamel panits.							
		grill	1	15.30		1.50	22.95		
		D1	1	1.50		2.40	3.60		
							<b>Total</b>	<b>26.55</b>	<b>sqm. 47.00 1248.00</b>
30	9.11	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.							
		D1	1	1.50	-	2.40	3.60		
							<b>Total</b>	<b>3.60</b>	<b>sqm. 3330.00 11988.00</b>

31	9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.)								
	9.3.1	Electric resistance or induction butt welded tubes Grade-250								
		MAIN TRUSS TOP & BOTTOM	2	12.60		11.52	290.30			
		SIDE	2	4.20		11.52	96.77			
		50X50X32(VERTICAL) top	7	5.20		4.93	179.45			
		50X50X32 bottom	7	5.20		4.93	179.45			
							745.98			
		EXTA FOR CONNECTION 20%	30%				223.79			
							969.77	88.50	Per kg 85824.54	
32	10.1	Providing corrugated G.I. sheet roofing including vertical/ curved surfaces fixed with galvanized iron, J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead including painting with primer and paint on overlapping of sheets complete excluding the cost of purlins rafters and trusses. (Zinc coating not less than 272 gms/sqm)								
	10.1.1	1.00 mm thick sheet (weight 8.60 kg/m <sup>2</sup> )								
			1	5.20	6.20		32.24	964.00	Per Sqm 31079.36	
33	10.5	Providing ridges or hips of 60cm overall width in plain G.I. sheet fixed with galvanized washers J or L hooks, bolts and nuts 8mm G.I. limpet and bitumen washers complete.								
	10.5.1	1.00 mm thick sheet with zinc coating not less than 275gm/sqm								
			1	5.20	1.00		5.20	596.00	Per Sqm 3099.20	
								<b>Total</b>	<b>381248.75</b>	

  
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**Assistant Engineer,**  
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**MUNICIPAL CORPORATION  
KORBA (C.G)**

**DETAIL ESTIMATE FOR CONSTRUCTION OF ROAD DEVELOPMENT JUVENILE CORRECTION CENTER AT - KORBA**

**External or Internal Electrical work**

**ROAD LIGHTING**

Sl.No.	SOR No.	Description	unit	Qty	Rate	Amount
1	19.8	Supply of hot dipped galvanized (In single dip to minimum 75 micron) octagonal pole made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 4mm thick anchor plate, 4 nos 24mm dia foundation bolts of EN8 grade, and as per IS 2062 & BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875		500		
	19.8.1	9 metre high, dia 155mm at bottom and 90mm at top, base plate size 260x260x16mm, foundation bolts 750mm long	Each	25.00	13974.00	349350.00
2	19.9	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification.				
	21.9.3	Single Over Hang 1.50 metre Long	Each	25.00	1191.00	29775.00
3	19.11	Erection of GI octagonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification.				
	19.11.7	9 metre high	Each	25.00	985	24625.00
4	32.7	Supplying following sizes FRLS PVC insulated , PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade and as per IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).				
	32.7.9	3 x 25 sq. mm	Metre	375	97	36375.00

5	19.12	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and				
		9 metre pole (82x.8x.8x.8) at Every 20 mtr	cum	256.00	5220	1336320.00
6	14.2	Supplying and laying HDPE pipe of 4kg/Sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification.				
			Metre	625	124	77500.00
	14.2.1	63 mm outer dia	Metre	125.00	664.00	83000.00
	14.2.6	160 mm outer dia				
7	14.3	Supplying and laying following size medium class G.I. pipe in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification.				
			Metre	100	879.00	87900.00
	14.3.3	100 mm internal dia	Metre	2.50	1183.00	2957.50
	14.3.4	150 mm internal dia				
8	15.1	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).				
			Metre	100	321	32100.00
	15.1.24	4 x 25 sq. mm.				
9	15.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as per specification. .				
			Each	100.00	104.00	10400.00
	15.23.25	4 X 25 sq. mm (25 mm)				
10	12.1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)				
			Set	3.00	3243.00	9729.00
11	12.3	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)				
			Set	3.00	6209.00	18627.00

12	12.12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification.	Metre	15.00	36.00	540.00
13	7.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder				
	7.19.1	Upto 300 mm deep	sqm	9.00	6818.00	61362.00
14	7.20	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification.				
	7.20.1	100 amp (20x3mm)	Metre	5.00	717.00	3585.00
15	7.15	Providing and making interconnection in cubical panel between BBC and switchgears with following size FRLS PVC insulated aluminium conductor wire lead of length upto 50cm including providing aluminium thimbles on both ends as per specification (To be measured separately for each phase/neutral)				
	7.15.2	16 sqmm (63 amp)	Each	3.00	55.00	165.00
16	9.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100% Icu				
	9.1.4	3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA	Each	3.00	3734.00	11202.00
17	9.11	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.11.2	6 amps to 32 amps	Each	25.00	148.00	3700.00
18	9.12	Supplying and fixing DP MCB, 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.12.2	6 amps to 32 amps	Each	3.00	411.00	1233.00
19	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.16.5	63 amps	Each	5.00	1316.00	6580.00

20	10.17	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00	94.00	282.00
21	10.18	Providing and fixing penal mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00	372.00	1116.00
	10.18.2	0-100 amps				
22	10.20	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00	397.00	1191.00
	10.20.1	Analog type				
23	10.21	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00	189.00	567.00
	10.21.1	For voltmeter	Each	3.00	207.00	621.00
	10.21.2	For ammeter				
24	6.28	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 120 lumens /watt.	25.00	Each	6844.00	171100.00
	6.28.9					
<b>WAITING SHED AND PARKING</b>						
<b>WIRING IN CONCEALED PVC conduit</b>						
25	1.1	Wiring for light/ fan/ exhaust fan / call bell point with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp piano type switch, phenolic laminated sheet, suitable size M.S. box etc as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)				
	1.1.1	Short Point	6	Point	240.00	1440.00
	1.1.2	Medium Point	8	Point	376.00	3008.00
4	<b>METAL, WOODEN AND PVC BOXES</b>					
26	4.1	Supplying and fixing of metal box of following sizes (nominal size) in recess with suitable size phenolic laminated sheet cover in front including painting etc as per specification.				
		200 mm X 150 mm X 60 mm deep	1	Each	158.00	158.00
5	<b>SWITCHES &amp; ACCESSORIES</b>					
27	5.1	Supplying and fixing following piano type switch, socket, other accessories on the existing switch box/ cover including connections etc. as per specification.				

	5.1.15	Batten/ angle holder	4	Each	38.00	152.00
	5.1.5	3 pin 5/6 amp socket outlet	2	Each	42.00	84.00
	5.1.6	6 pin 15/16 amp socket outlet	2	Each	73.00	146.00
	5.1.13	Ceiling rose 3 pin 5 amps	2	Each	32.00	64.00
	5.11	Providing and fixing fan clamp made of 3mm thick MS flat on existing iron trusses/ girder including necessary bolts and nuts etc. as per specification.	2	Each	40.00	80.00
28	6	FANS, LUMINARIES AND LAMPS				
	6.1'	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.	2	Each	1697.00	3394.00
	6.1.3	1200 mm sweep				
29	6.17	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt.	3	Each	143.00	429.00
	6.17.4	9 Watt				
30	6.19	Supplying, installation, testing and commissioning of following LED tube light fitting including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt.	11.00	Each	351.00	3861.00
	6.19.2	10 watt (2 feet)				
	9	MCCB, MCB, MCB DB				
31	9.2	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)	4	Each	567.00	2268.00
	9.2.1	4 way, Single door				
32	15.1'	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).	50	Metre	249.00	12450.00
	15.1.1	2 x 4 sq. mm	50	Metre	252.00	12600.00
	15.1.2	2 x 6 sq. mm				
					<b>Total</b>	<b>2402036.50</b>

  
**SUB ENGINEER**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**

  
**Assistant Engineer,**  
**Municipal Corporation,**  
**KORBA (Chhattisgarh)**