

कार्यालय, नगर पालिक निगम, कोरबा (छत्तीसगढ़)

फा.क. 147 / निर्माण / 2023

सिस्टम टेंडर नं. 134398

कोरबा दिनांक 17.05.2023

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-प्रोक्चुरमेंट (E-Tendering) के माध्यम से निविदा प्रपत्र फार्म A में निविदा आमंत्रित की जाती है :-

क.	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, कोरबा क्षेत्रांतर्गत वार्ड क 14 पम्पहाउस नन्दीरवान में महात्मा गांधी अर्बन इण्डस्ट्रियल पार्क हेतु रोड निर्माण, शेड निर्माण, स्टोर निर्माण, टायलेट ब्लॉक निर्माण, पेवर ब्लॉक, विद्युतीकरण, जल प्रदाय एवं अन्य आवश्यक कार्य।	120.12	90500/-	08 माह	3000/-	वर्ग सी एवं प्रवर श्रेणी	08.06.2023 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 उन्हे 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 अगले 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 स्केन 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 कर प्रस्तुत 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 तदंतर्गत 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 पलाई 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 कॉडिका 11 अनुसार एरक्लेशन 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।

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		17.05.2023	18.00	17.05.2023	18.00	Release Tender
2		Bid Submission	17.05.2023	18.00	07.06.2023	17.30	
3	Tender Open		08.06.2023	10.30	--	--	


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

DETAILED ESTIMATE FOR PROPOSED DEVELOPMENT OF NANDI SWAN UNDER UIPA PROJECT AT MUNICIPAL CORPORATION KORBA (C.G.)

SHED, ROAD, DRAIN, STORE, TOILET BLOCK, PAVER BLOCK, ELECTRIFICATION, WATERSUPPLY & OTHER MISCELLANEOUS WORKS

S.No.	PARTICULAR	QTY.	UNIT
A = TOTAL CIVIL WORK			
1	<p>Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil</p>		
	(BUILDING SOR ITEM NO.-1.1.1/9)	466.90	CUM
2	<p>Carriage by mechanical transport upto 5 km lead: 1.26.1 Earth</p>		
	(BUILDING SOR ITEM NO.-1.26/12)	466.90	CUM
3	<p>Pumping out water caused by springs tidal or river seepage, broken water main or drains and like during Excavation or during Excavation and laying of base concrete (volume to be calculated taking height from water level to bottom of pit and to be measured and paid) .</p>		
	(BUILDING SOR ITEM NO.-1.10/10)	140.07	CUM
4	<p>Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.</p>		
	(BUILDING SOR. ITEM NO.-1.18/11)	625.37	CUM
5	<p>Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).</p>		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	96.85	CUM
6	<p>Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).</p>		
	(BUILDING SOR ITEM NO.- 3.2/23)	131.48	CUM
7	<p>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 all complete: Thermo-Mechanically treated bars FE 415</p>		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	13148.25	KG
8	<p>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, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.</p>		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	429.58	SQ.M
9	<p>Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil</p>		
	(BUILDING SOR ITEM NO.-1.1.1/9)	69.55	CUM
10	<p>Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.</p>		
	(BUILDING SOR. ITEM NO.-1.18/11)	11.59	CUM
11	<p>Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).</p>		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	17.39	CUM
12	<p>Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: 2.1.8 Beams, lintels, Cantilevers & Walls.</p>		
	(BUILDING SOR ITEM NO.- 2.1.8/16)	309.12	SQ.M
13	<p>Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.</p>		
	(BUILDING SOR ITEM NO.- 3.13/24)	7.73	CUM
14	<p>Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)</p>		
	(BUILDING SOR ITEM NO.- 7.5.4/45)	57.96	CUM

S.No.	PARTICULAR	QTY.	UNIT
15	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (BUILDING SOR. ITEM NO.- 7.6/45)	520.58	CUM
16	Providing and making 12mm.thick cement plaster of mix : In Cement Mortar 1:6 (1 Cement : 6 fine Sand)		
	(BUILDING SOR. ITEM NO.-11.2/103)	1895.28	SQ.M
17	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(BUILDING SOR. ITEM NO.-11.3/103)	1763.04	SQ.M
18	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer. 9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.		
	(BUILDING SOR ITEM NO.-9.18/81)	158.40	METER
19	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.8.12.3 30 mm. thick (single leaf)		
	(BUILDING SOR. ITEM NO.-8.12.2/56)	86.40	SQ.M
20	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 coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.-9.15/81)	2250.00	KG
21	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm		
	(BUILDING SOR ITEM NO.8.79/64)	26.00	EACH
22	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete: 250 x10 mm		
	(BUILDING SOR ITEM NO.8.81/64)	26.00	EACH
23	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.		
	(BUILDING SOR ITEM NO.-8.90/65)	26.00	EACH
24	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete: 125 mm		
	(BUILDING SOR ITEM NO.-8.84/65)	52.00	EACH
25	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 1.2.3.2- 50 mm thick		
		8.80	SQ.M
26	Providing and applying 2mm thick ready mix exterior grade putty (manufactured with cow dung processing) on walls to make the surface smooth and even. As per Inner , outer plastering		
	(BUILDING AMMENDMENT SOR ITEM NO.-14.51)	3658.32	SQ.M
27	Wall painting with premium emulsion (plastic) paint manufactured with the cow dung processing emulsion paint of required shade to give an even shade. 1.4.49.1 On new work (Two or more coats)		
	(BUILDING AMMENDMENT SOR ITEM NO.-14.49)	1895.28	SQ.M
28	1.4.50 Painting exterior surface with SMOOTH exterior emulsion paint manufactured with the cow dung processing to give pro specifications to give protective and decorative finish including cleaning washing of surface etc.		
	1.4.50.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over.		
	(BUILDING AMMENDMENT SOR ITEM NO.-14.50)	1763.04	SQ.M
29	Painting on new work (two or more coats) to give an even shade with 1.4.22.2 Premium synthetic enamel paint		

S.No.	PARTICULAR	QTY.	UNIT
	(BUILDING SOR. ITEM NO.-14.22.2/134)	326.00	SQM
30	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-300		
	(BUILDING SOR. ITEM NO.-9.3.2/80)	11028.50	KG
31	Providing and fixing 15 cm. wide 45cm. overall semi circular plain G.I. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipe complete as per designs. 10.9.2 0.63 mm thick sheet		
	(BUILDING SOR. ITEM NO.-10.9/91)	92.80	MTR
32	10.12 Supply and fixing of polymer pre-coated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated 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 complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.		
	(BUILDING SOR. ITEM NO.- 10.12/91)	857.28	SQ.M
33	12.7 Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete. 7.2 Size above 200x300mm		
	(BUILDING SOR ITEM NO.-12.7.2/111)	177.48	SQ.M
34	12.9 Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. 9.2 Size above 300x300mm		
	(BUILDING SOR ITEM NO.-12.7.2/111)	47.00	SQ.M
35	12.13 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. 13.1 Size 600x600mm		
	(BUILDING SOR ITEM NO.-12.7.2/111)	72.00	SQ.M
36	12.45 15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above) 45.2- Granite stone black		
		14.40	SQ.M
37	9.27 Supplying and fixing rolling shutter of approved makes made of M.S. laths interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull arrangement complete but excluding the cost of top cover and spring. 27.1 80x1.25mm M.S. Laths		
		56.00	SQ.M
38	9.28 Providing and fixing 27.5cm long wire spring for rolling shutters. 27.1 80x1.25mm M.S. Laths		
		10.00	EACH
39	9.29 Providing and fixing M.S. sheet top cover for rolling shutter 27.1 80x1.25mm M.S. Laths 29.1 1.25mm thick		
		25.20	SQ.M
40	9.30 Providing and fixing ball bearing for rolling shutters.		
		28.00	EACH
41	9.31 Providing and fixing mechanical device chain and crank operation for operating rolling shutters.		

S.No.	PARTICULAR	QTY.	UNIT
		4.00	SET
42	9.36 Providing and fixing approved pipe hand rail to walls (ramps, stair cases) including cutting chases and repairing the same to original condition, applying a priming coat of red oxide zinc chromate primer. 36.3 G.I. pipe		
		210.00	KG
43	{8.166 AMND} Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m ,An height dimension comprising of uPVC multi-chambered frame with in-built roller track and;lash extruded profiles duly reinforced ~}th 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming proeess of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC' extruded interlocks and uPVC extrud Inline sash adaptor (if, required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel mufti point locking having transmission gear with keeps, zinc alloy (white powder coated) touch-lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion· welded at all comers, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished. wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single I double glass panes, wire mesh and silicon sealant' shall be paid separately vide chapter no. 9.51, 9.58, 9.59 Respectively). Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. (Fittings shall be paid for separately). {E1 AMND} Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead I double glazing bead of appropriate dimension. (Area of window above 2 . 50 sqm upto 4.00 sqm.) [SQM - 5530.00]		
		65.84	SQM
44	{10.61} Providing and fixing at all height false ceiling consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120 consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.55mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed including providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part-I all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting. {10.61} On new work (Two or more coats [SQM- 658.00]		
		119.00	SQM
45	{9.57} Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete. {57.2} SS Grade 304 [Kg- 525.00]		
		290.97	SQM
46	ROAD WORK 3.15 Compacting Original Ground supporting embankment Loosening, leveling and compacting original ground to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at O.M.C. and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction.		
		112.00	CUM
	3.12 Construction of embankment with Material Obtained from Borrow Pits/Borrow Area (Construction of embankment with approved material/selected soil having C.B.R.>5 (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)		
		112.00	Cum

S.No.	PARTICULAR	QTY.	UNIT
	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.)		
		112.00	CUM
	6.2 Cement Concrete Pavement (Construction of un-reinforced, 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 per drawing as per clause 602.)		
	With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.		
		168.00	CUM
47	PAVER BLOCK		
	3.1 Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.		
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
		28.73	CUM
	12.65 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 250 kg/sq.cm Coloured pigment precast interlock concrete blocks		
		287.32	SQM
	2.1 Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
	Foundations,footing,base of columns and plinth beam in any shape and size.		
		12.40	SQM
48	BOUNDARY WALL		
	1.1 Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1 In all types of soils.		
		44.46	cum
	3.1 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete..		
		4.02	Cum
	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.		
	1.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
		4.02	Cum
	3.2 Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		
	2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
		12.08	Cum
	3.12 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:		
	12.2 Thermo-Mechanically treated bars FE 500D		
		1208.40	Kg
	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
	1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
		34.20	sqm
	1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		
		24.00	sqm

S.No.	PARTICULAR	QTY.	UNIT
	1.17 Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.		
		36.42	Cum
	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:		
	5.3 Cement Mortar 1:5 (1 cement : 5 coarse sand)		
		17.16	Cum
	11.2 Providing and making 12mm thick cement plaster of mix:		
	2.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)		
		92.40	SQM
	11.3 Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:		
	3.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)		
		85.80	SQM
	14.12 Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.		
		178.20	SQM
	14.5 Painting exterior surface with SMOOTH exterior emulsion paint manufacturerd with the cow dung processing to give pro specifications to give protective and decorative finish including cleaning washing of surface etc.		
	50.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over.		
		126.32	cum
49	DRAIN		
	1.1 Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1 In all types of soils.		
		90.00	cum
	3.1 Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete..		
		9.00	Cum
	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.		
	1.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
		13.50	Cum
	3.2 Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		
	2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
		49.50	Cum
	3.12 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:		
	1.2.2 Thermo-Mechanically treated bars FE 500D		
		4950.00	Kg
	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
	1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
		330.00	sqm
	1.17 Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.		
		67.50	Cum
50	B = ADD 5.0% OF "A" FOR WATER SUPPLY & SANITATION		
51	C = ADD 7.0% OF "A" FOR INTERNAL ELECTRICITY		
52	D = ADD 3.0% OF "A" FOR EXTERNAL ELECTRICITY		