

कार्यालय, नगर पालिक निगम, कोरबा (छत्तीसगढ़)

फा.क. 19/2026

सिस्टम टेंडर नं. 195371

कोरबा दिनांक 14.07.2026

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, इलेक्ट्रिकल एस.ओ.आर. 01.06.2020 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 Form-A एवं नॉन एस.ओ.आर. आयटमों हेतु निविदा प्रपत्र Form-A&B में आयटम दरों पर निविदा आमंत्रित की जाती है:-

1. फिजिकल सबमिशन लिफाफा प्राप्त होने की अंतिम तिथि - 07.08.2026 सायंकाल से 3.00 बजे तक
2. निविदा खुलने की अंतिम तिथि - 07.08.2026 सायंकाल 4.00 बजे से

क्र.	कार्य का नाम	प्राक्कलन राशि (लाख में)	धरोहर राशि (FDR/TDR)	कार्यावधि	निविदा प्रतिभागी शुल्क (डिमांड ड्राफ्ट)	ठेकेदार का वर्ग	निविदा खुलने की तिथि
1	नगर पालिक निगम कोरबा क्षेत्रांतर्गत आजीविका संवर्धन हेतु प्रत्यक्ष प्रभावित क्षेत्र के अंतर्गत शहरी वर्ग के आय सृजन करने हेतु दुकान निर्माण कार्य (जि.ख.न्या.मद)	88.80	66700/-	12 माह	3000/-	वर्ग डी एवं प्रवर श्रेणी	07.08.2026 से

शर्त:-

1. 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
2. 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।
3. इच्छुक ठेकेदारों को उचित वर्ग में पंजीयन की प्रमाणित प्रतिलिपि यदि साझेदारी फर्म हो तो उसका प्रमाण पत्र (पार्टनरशिप डीड) की सत्य प्रतिलिपि, उपलब्ध तकनीकी अमले की जानकारी, विगत 3 वर्षों का आयकर चुकता प्रमाण पत्र, पेन नम्बर, वैध जी.एस.टी. पंजीयन प्रमाण पत्र एवं अमानत राशि के FDR/TDR की प्रति ऑनलाइन अपलोड करना अनिवार्य होगा, प्रशिक्षित यंत्री नियुक्त करने संबंधी प्रमाण पत्र, कर्मचारी भविष्य निधि रायपुर से पंजीकरण का कोड, निविदा प्रतिभागी शुल्क का डिमांड 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 डिमांड ड्राफ्ट एवं निर्धारित प्रारूप में शपथ पत्र की मूल प्रति लिफाफा में कार्य का नाम एवं अन्य विवरण अंकित कर केवल स्पीड पोस्ट/रजिस्टर्ड डाक के माध्यम से आयुक्त, नगर पालिक निगम, कोरबा साकेत भवन, आई.टी.आई.चौक रामपुर कोसाबाड़ी पिन- 495677 कोरबा के पते पर भेजना होगा। निर्धारित तिथि को सायं 03:00 बजे के पश्चात् फिजिकल सबमिशन लिफाफा स्वीकार नहीं किया जायेगा।
 - 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 निर्धारित प्रारूप में वैध शपथपत्र (राशि रु. 100/- नॉनज्यूडिशियल स्टाम्प) निविदा आमंत्रण दिनांक के पश्चात् का, निविदा क्रमांक एवं कार्य का नाम अंकित करना अनिवार्य होगा।
 - अमानत राशि का FDR/TDR एवं निविदा प्रतिभागी शुल्क का डिमांड ड्राफ्ट जो कि आयुक्त, नगर पालिक निगम, कोरबा के नाम पर देय हो प्रस्तुत करना अनिवार्य होगा।
4. 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। सुरक्षा राशि एवं परफार्मेंस गारंटी राशि वापसी हेतु समयावधि की गणना कार्य पूर्णता तिथि से किया जायेगा। उक्त समयावधि में निर्माण कार्य की भौतिक स्थिति सही होने तथा सक्षम प्राधिकारी के संतुष्टि के आधार पर भुगतान किया जायेगा।
5. जिन निविदाकारों द्वारा कर्मचारी भविष्य निधि संगठन (वर्तमान तक वैधता) एवं कर्मचारी राज्य बीमा निगम, रायपुर से पंजीयन कराकर कोड प्राप्त कर लिया हो वे निविदाकार ही निविदा हेतु पात्र होंगे एवं कर्मचारी भविष्य निधि संगठन (ई.पी.एफ.) एवं विभिन्न प्रावधानों को धारा 1952 के तहत निविदाकार का जीवित पंजीयन होना आवश्यक है साथ ही निविदा आमंत्रण दिनांक से विगत तीन माह की अवधि में जमा किये गये TRRN Payment Detail चालान की प्रति प्रस्तुत करना तथा ऑनलाइन अपलोड किया जाना अनिवार्य होगा।
6. निविदा में भाग लेने वाले ठेकेदारों को छ.ग. भवन और अन्य सन्निर्माण कर्मकार (नियोजन एवं सेवा शर्तों का विनियमन) अधिनियम 1996 एवं तदुत्तरागत निर्धारित नियमों के तहत पंजीयन कराना आवश्यक होगा तथा निर्माण लागत का 1 प्रतिशत उपकर के रूप में प्रत्येक देयक से कटौती की जावेगी।
7. ईट से संबंधित निर्माण कार्यों में प्लाई एश ब्रिक का उपयोग किया जाना अनिवार्य होगा।
8. प्रयुक्त लोहा का बिल एवं टेस्ट रिपोर्ट तथा प्रयुक्त सीमेंट का बिल संलग्न करना अनिवार्य होगा।
9. 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।
10. निविदा अहस्तांतरणीय होगा एवं सशर्त निविदाओं पर विचार नहीं किया जावेगा।
11. निविदा प्रपत्र फार्म -ए की कंडिका 11 Price Adjustment (एस्कलेशन) देय नहीं होगा।
12. निविदा के संबंध में किसी प्रकार की विवाद होने की स्थिति में आयुक्त का निर्णय अंतिम एवं सर्वमान्य होगा।
13. निविदा स्वीकृत करने अथवा अस्वीकृत करने अथवा निरस्त करने का अधिकार नगर पालिक निगम के पास सुरक्षित रहेगा।
14. उपरोक्त निविदा सूचना की विस्तृत प्रति नगर पालिक निगम, कोरबा के साकेत भवन स्थित निर्माण शाखा से प्राप्त किये जा सकते हैं।
15. ठेकेदार द्वारा संपादित किए गए कार्यों के देयकों का भुगतान कार्य विशेष हेतु बजट आबंटन एवं राशि उपलब्ध होने पर किया जाएगा।
16. निविदा में सफल निविदाकार को ऐसे कार्य जिसकी अनुबंध राशि 10.00 लाख या उससे अधिक है, उनको प्रत्येक कार्यों हेतु पृथक से छ.ग. भवन और सन्निर्माण कर्मचार मण्डल का पंजीयन प्रमाण पत्र प्रस्तुत करना अनिवार्य होगा अन्यथा देयक भुगतान किया जाना संभव नहीं होगा।
17. कार्य क्रियान्वयन से संबंधित गुणवत्ता परीक्षण संबंधी रिपोर्ट पर होने वाले व्यय का वहन संबंधित ठेकेदार द्वारा किया जावेगा।
18. ठेकेदार को निर्माण कार्य के दौरान "निर्माण एवं अपशिष्ट प्रबंधन नियम 2016" में किये गए प्रावधानों का पालन करना अनिवार्य होगा।
19. निविदा में न्यूनतम निविदाकार का मूल्यांकन एस.ओ.आर. एवं नॉन एस.ओ.आर. के कुल लागत के आधार पर किया जावेगा।

अधीक्षक अभियंता
नगर पालिक निगम
कोरबा (छ.ग.)

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		14.07.2026	17.00	14.07.2026	17.00	Release Tender
2		Bid Submission	14.07.2026	17.00	04.08.2026	17.30	
3		Physical Document Submmission	14.07.2026	17.00	07.08.2026	15.00	
4	Tender Open		07.08.2026	16.00	--	--	


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

OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.G.)

BILL OF QUANTITY

SOR Used : CG PWD Building SOR 01.01.2015

Sno	Code	Particulars	Qty	Unit	Rate	Amount
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).				
		Construction Area				
			780.00	Sqm	7.20	5616.00
2	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.				
	1.1.1	In all types of soil	587.30	cum	185.00	108651.00
3	1.18	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.				
			78.62	cum	371	29168.02
4	1.6	Extra for every additional lift of 1.5 m or part thereof.				
	1.6.1	All types of soil	75.65	cum	26.50	2004.73
5	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 : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).				
			99.40	cum	2970.00	295218.00
6	3.2	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				

		Construction Area				
			780.00	Sqm	7.20	5616.00
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).				
			130.23	Cum	4163	542147.5
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:				
			63.16	Cum	4260.5	269093.2
8	3.7	Providing and mixing in cement concrete, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 12 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer				
		1 kg /Cum	161.62	kg	366.00	59152.92
8	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.				
		30 % of excavated earth	234.00	cum	65	15210.0
9	1.26	Carriage by mechanical transport upto 5 km lead:				
		1.26.1 Earth	546.00	cum	111.00	60606.00
10	1.27	Extra for mechanical transport for every one km or part thereof beyond first 5 km lead.				
		1.27.1 Earth				
			546.00	cum	45.00	24570.00
11	1.18	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.				
			593.55	cum	371.00	220207.05
12	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				

		Construction Area				
			780.00	Sqm	7.20	5616.00
	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.				
			1701.38	sqm	139.00	236491.82
	2.1.3	Window sills, anchor blocks, string course, bends, copings, bed plates and like.				
			5.40	Sqm	184.00	993.60
13	2.1.5	Columns, Pillars, Piers and likes-rectangular or square in shape				
			403.56	sqm	297.00	119857.32
14	2.1.8	Beams, lintels, cantilevers & walls				
			376.44	sqm	202.00	76040.88
	2.1.11	Arches, domes and likes, upto 6 M. Span.				
			34.00	Sqm	584.00	19856.00
16	2.1.13	Weather shade, chhajja, Cornices and mouldings				
			56.60	sqm	294.00	16640.40
17	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	296.94	sqm	235.00	69780.9
18	2.1.4	Edge of slab, breaks in floor and walls upto 200mm.	190.40	Rm	34.00	6473.6
19	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:				
	3.12.1	Thermo-Mechanically treated bars FE 415				
			21587.9	kg	54.50	1176541.64
20	7.5.4	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:				
		Cement Mortar 1:6 (1 cement : 6 coarse sand)				
			22.53	cum	3263.00	73515.4
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
			138.71	cum	3384.00	469394.6
22	11.1	Providing and making 6mm thick cement plaster of mix				

		Construction Area				
			780.00	Sqm	7.20	5616.00
		In Cement mortar 1:3 (1 cement : 3 fine sand)				
			405.3	Sqm	93.00	37692.90
	11.1	Providing and making 6mm thick cement plaster of mix:				
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)	35.4	Sqm	87.00	3079.80
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	709.4	Sqm	91.50	64910.10
	11.1.3	In cement mortar 1:3 (1cement : 3 sand)	18.0	Sqm	87.00	1566.00
24	11.3.4	15mm 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)				
			854.60	sqm	107.00	91442.2
	11.4	Providing sand faced plaster to concrete or brick masonry surface in all positions in two coats, base coat 13mm thick in C.M. 1:4, cleaning the surface by combing it and finishing coat 8mm thick in C.M. 1:3 and taking out grains on surface by hand operated mechanical arrangement with cost of all material labour, all leads & lifts, and scaffolding etc. complete				
			75.00	Sqm	180.00	13500.00
	11.7	Providing and making 18 mm thick cement plaster with under layer of 12mm thick cement plaster 1:5 (1 cement : 5 fine sand) finished with a top layer of 6mm thick cement plaster 1:3 (1 cement : 3 fine sand).				
			389.61	Sqm	163.00	63506.43
25	11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer				
			328.22	kg	366.00	120128.52

		Construction Area				
			780.00	Sqm	7.20	5616.00
	9.6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.				
	9.6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.				
			2700.00	kg	68.00	183600.00
26	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 coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.				
			64.80	kg	67.50	4374.0
	9.96	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.				
	96.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.				
			700.0	kg	68.00	47600.0
27	13.4	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)				
			318.64	Sqm	897	285820.08
28	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.				
			114.24	sqm	273.00	31187.5

		Construction Area				
			780.00	Sqm	7.20	5616.00
29	9.37	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.				
			28.00	each	97.00	2716.0
30	14.6	White washing with whiting to give an even shade.				
	14.6.1	On new work (Three or more coats)				
		From item 10				
			2358.91	sqm	9	21230.2
31	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.				
			1969.33	Sqm	94.50	186101.7
32	14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade.				
	14.10.1	On new work (Two or more coats)				
			1969.33	Sqm	44.50	87635.2
	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.				
	14.14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)				
			426.3	Sqm	41.00	17478.71
	14.22	Painting on new work (two or more coats) to give an even shade with:				
	14.22.2	Premium synthetic enamel paint				
			90.00	Sqm	47.00	4230.00
33	4.60	Providing post water proofing treatment against dampness & Seepage in walls of basement, plinth, super structure (horizontal or vertical) consisting of following operations:				

		Construction Area				
			780.00	Sqm	7.20	5616.00
		i) Removing loose material and cleaning the surface. ii) Drilling 20mm dia holes in walls/ floor in zigzag manner spacing not more than 150 mm center to center. iii) Injecting polymer based high strength water proofing compound of approved brand & make, admixed with cement in the ratio as specified by manufacturer, in holes by pressure pump. iv) Plugging holes with polymer compound admixed with cement. v) Providing and laying of bonding slurry prepared by mixing of cement with approved make and brand acrylic polymer (as per IS 13435 Part-3) in two layers (totaling up-to 3mm thick) by brush. Second layer to be laid after 4 hours of first layer. vi) Providing and laying 15mm thick cement plaster in cement mortar 1:4 (1 cement : 4 coarse sand) and finishing the surface with neat cement admixed with integral water proofing compound (IS: 2645) as per manufacturers recommendations.				
			277.4	Sqm	283	78504.20
34	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.				
	9.27.2	80x1.20mm M.S. Laths	106.5	sqm	1570	167205.00
35	2.28	Providing and fixing 27.5cm long wire spring for rolling shutters	44.0	Each	362	15928.00
36	9.29	Providing and fixing M.S. sheet top cover for rolling shutter				
37	9.29.2	1.20mm thick	36.3	Sqm	530	19239.00
38	9.30	Providing and fixing ball bearing for rolling shutters	44.0	Each	432	19008.00

		Construction Area				
			780.00	Sqm	7.20	5616.00
39	9.31	Providing and fixing mechanical device chain and crank operation for operating rolling shutters.	22.0	Set	5672	124784.00
40	8.148	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance $\pm 1\text{mm}$) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge				
	8.148.1	Extruded section Profile size 48x40 mm.				
			20.00	Rm	191.00	3820.0
41	8.150	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of $1\text{mm} \pm 0.3\text{mm}$. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification.				
			6.72	Sqm	2583.00	17357.8
	12.3	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.				
	12.3.2	50mm thick	7.2	Sqm	254.00	1828.8

OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.G.)

BILL OF QUANTITY

SOR Used : CG PWD Building SOR 01.01.2015

Sno	Code	Particulars	Qty	Unit	Rate	Amount
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and inequalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).				
		Construction Area				
			780.00	Sqm	7.20	5616.00
2	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.				
	1.1.1	In all types of soil	587.30	cum	185.00	108651.00
3	1.18	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.				
			164.94	cum	371	61192.74
4	1.6	Extra for every additional lift of 1.5 m or part thereof.				
	1.6.1	All types of soil	75.65	cum	26.50	2004.73
5	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 : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).				
			99.40	cum	2970.00	295218.00

6	3.2	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				
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).				
			166.90	Cum	4163	694804.7
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:				
			63.16	Cum	4260.5	269093.2
8	3.7	Providing and mixing in cement concrete, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 12 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer				
		1 kg /Cum	161.62	kg	366.00	59152.92
9	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.				
		30 % of excavated earth	260.42	cum	65	16927.3
10	1.26	Carriage by mechanical transport upto 5 km lead:				
		1.26.1 Earth	546.00	cum	111.00	60606.00
11	1.27	Extra for mechanical transport for every one km or part thereof beyond first 5 km lead.				
		1.27.1 Earth				
			546.00	cum	45.00	24570.00

12	1.18	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.				
			592.09	cum	371.00	219665.39
13	2.1	Providing and fixing form work including centring, 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.				
			1650.00	sqm	139.00	229350.00
14	2.1.3	Window sills, anchor blocks, string course, bends, copings, bed plates and like.				
			5.40	Sqm	184.00	993.60
15	2.1.5	Columns, Pillars, Piers and likes-rectangular or square in shape				
			403.56	sqm	297.00	119857.32
16	2.1.8	Beams, lintels, cantilevers & walls				
			376.44	sqm	202.00	76040.88
17	2.1.11	Arches, domes and likes, upto 6 M. Span.				
			34.00	Sqm	584.00	19856.00
18	2.1.13	Weather shade, chhajja, Cornices and mouldings				
			56.60	sqm	294.00	16640.40
17	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	296.94	sqm	235.00	69780.9
19	2.1.4	Edge of slab, breaks in floor and walls upto 200mm.	190.40	Rm	34.00	6473.6
20	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:				
	3.12.1	Thermo-Mechanically treated bars FE 415				

			21587.9	kg	54.50	1176541.64
21	7.5.4	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:				
		Cement Mortar 1:6 (1 cement : 6 coarse sand)				
			22.53	cum	3263.00	73515.4
22	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
			138.71	cum	3384.00	469394.6
23	11.1	Providing and making 6mm thick cement plaster of mix				
	11.1.1	In Cement mortar 1:3 (1 cement : 3 fine sand)				
			380.0	Sqm	93.00	35340.00
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)	88.8	Sqm	87.00	7725.60
24	11.2	Providing and making 12mm thick cement plaster of mix:				
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	700.0	Sqm	91.50	64050.00
25	11.3.4	15mm 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)				
			854.64	sqm	107.00	91446.5
26	11.4	Providing sand faced plaster to concrete or brick masonry surface in all positions in two coats, base coat 13mm thick in C.M. 1:4, cleaning the surface by combing it and finishing coat 8mm thick in C.M. 1:3 and taking out grains on surface by hand operated mechanical arrangement with cost of all material labour, all leads & lifts, and scaffolding etc. complete				
			75.00	Sqm	180.00	13500.00

27	11.7	Providing and making 18 mm thick cement plaster with under layer of 12mm thick cement plaster 1:5 (1 cement : 5 fine sand) finished with a top layer of 6mm thick cement plaster 1:3 (1 cement : 3 fine sand).				
			389.61	Sqm	163.00	63506.43
27	11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer				
			325.00	kg	366.00	118950.00
28	9.6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.				
	9.6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.				
			2700.00	kg	68.00	183600.00
29	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 coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.				
			65.00	kg	67.50	4387.5
30	9.6	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.				

	9.6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.				
			700.0	kg	68.00	47600.0
31	13.4	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)				
			310.00	Sqm	897	278070.00
32	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.				
			110.00	sqm	273.00	30030.0
33	9.37	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.				
			28.00	each	97.00	2716.0
34	14.6	White washing with whiting to give an even shade.				
	14.6.1	On new work (Three or more coats)				
		From item 10				
			2100.00	sqm	9	18900.0

35	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.				
			1850.00	Sqm	94.50	174825.0
36	14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade.				
	14.10.1	On new work (Two or more coats)				
			1850.00	Sqm	44.50	82325.0
37	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.				
	14.14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)				
			350.0	Sqm	41.00	14350.00
38	14.22	Painting on new work (two or more coats) to give an even shade with:				
	14.22.2	Premium synthetic enamel paint				
			90.00	Sqm	47.00	4230.00
39	4.60	Providing post water proofing treatment against dampness & Seepage in walls of basement, plinth, super structure (horizontal or vertical) consisting of following operations:				

		i) Removing loose material and cleaning the surface. ii) Drilling 20mm dia holes in walls/ floor in zigzag manner spacing not more than 150 mm center to center. iii) Injecting polymer based high strength water proofing compound of approved brand & make, admixed with cement in the ratio as specified by manufacturer, in holes by pressure pump. iv) Plugging holes with polymer compound admixed with cement. v) Providing and laying of bonding slurry prepared by mixing of cement with approved make and brand acrylic polymer (as per IS 13435 Part-3) in two layers (totaling up-to 3mm thick) by brush. Second layer to be laid after 4 hours of first layer. vi) Providing and laying 15mm thick cement plaster in cement mortar 1:4 (1 cement : 4 coarse sand) and finishing the surface with neat cement admixed with integral water proofing compound (IS: 2645) as per manufacturers recommendations.				
			277.4	Sqm	283	78504.20
40	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.				
	9.27.2	80x1.20mm M.S. Laths	106.5	sqm	1570	167205.00
41	2.28	Providing and fixing 27.5cm long wire spring for rolling shutters	44.0	Each	362	15928.00

42	9.29	Providing and fixing M.S. sheet top cover for rolling shutter				
	9.29.2	1.20mm thick	36.3	Sqm	530	19239.00
44	9.30	Providing and fixing ball bearing for rolling shutters	44.0	Each	432	19008.00
45	9.31	Providing and fixing mechanical device chain and crank operation for operating rolling shutters.	22.0	Set	5672	124784.00
46	8.148	Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance $\pm 1\text{mm}$) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge				
	8.148.1	Extruded section Profile size 48x40 mm.				
			20.00	Rm	191.00	3820.0

41	8.150	Providing and fixing factory made 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm $\pm$ 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification.				
			6.72	Sqm	2583.00	17357.8
47	12.3	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.				
	12.3.2	50mm thick	7.2	Sqm	254.00	1828.8
48	11.3	Providing and making 12mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:				
	11.31.2	Sunk Bands	110.00	cm/m	2.60	286
		Raised band	500.00	cm/m	2.60	1300
49	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				
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks				

			260	Sqm	632.00	164320.00
50	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)				
		Slab	19.50	Sqm	235.00	4582.50
51	11.1	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:1				
	11.1.3	In cement mortar 1:3 (1cement : 3 sand)	18.0	Sqm	134.00	2412.00
52	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.				
	12.7.1	Size upto 200x300mm	45.00	Sqm	587.00	26415.0
					Total	5958488.6

Sub Engineer
Municipal Corporation
Korba (C.G.)

Assitant Engineer
Municipal Corporation

OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.G.)

ESTIMATE OF COMMERCIAL SHOPS

ESTIMATE OF ELECTRICAL POLE

SOR Used : CG PWD ELECTRICAL SOR 01.06.2020

S.no.		Item	Qty	Unit	Rate	Amount
1	19.8.1	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 Part 3)				
	i	9 metre high, dia 155mm at bottom and 90mm at top, base plate size 260x260x16mm, foundation bolts 750mm long	7	Each	13974.00	97818.00
2	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 metre 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 curing etc. as per specification	1.68	cum	5219.00	8767.92
3	19.11.7	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.				
	i	9 metre high	7	Each	985.00	6895.00
4	19.27	Supplying and fixing of SINGLE over hang (Arm) 1500 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffener and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-charge.	7	Each	2050.00	14350.00
5	15.3.11	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).				
	i	15.3.11 3.5 x25 sqmm	105	Mtr	117.00	12285.00
	ii	15.3.13 3.5 x50 sqmm	210	Mtr	173.00	36330.00

7	14.2.1	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.				
	i	63 mm outer dia	175	Mtr	124.00	21700.00
8	12.19.	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.1	With 3 metre long GI Pipes and 50 kg back filling	7	Each	10955.00	76685.00
9	9.10.1	Supplying and fixing SP MCB, 240 volts, 'B' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	i	6 amps to 32 amps	7	Each	151.00	1057.00
	ii	40 amps	1	Each	313.00	313.00
10	:15.28.	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. .				
	15.28.4	25 Sq mm.	98	Each	22.00	2156.00
11	19.134	Providing and making suitable CC pole collar	7	Each	251.00	1757.00
12	32.2.4	Providing following size ISI marked FRLS PVC insulated , PVC sheathed, flexible copper conductor wire.				
	32.2.4	1.5 sq. mm three core	105	mtr	35.00	3675.00
13	6.28.9	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.				
	i	150 watt	7	Each	9347.00	65429.00
14	12.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as per specification.	35	Mtr	19.00	665.00

15	14.3.2	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.				
		80 mm internal dia	35	Mtr	527.00	18445.00
16	6.59	Supply and installation of timer including relay and contactor set complete as required	1	Each	3929.00	3929.00
17	1.13	Wiring for circuit/sub-main wiring shall be carried out with FRLS PVC insulated copper conductor wires, including earth wire, of the specified sizes, laid in concealed heavy-duty FRLS PVC conduit. The conduit pipe shall be 2 mm thick and the work shall conform to relevant specifications and to IS 694:2010 and IS 9537 (Part 5):2000.				
	1.13.2	3 X 2.5 sq. mm in 20mm conduit	150	Mtr	111.00	16650.00
	1.13.8	3 X 10 sq. mm in 25mm conduit	125	Mtr	270.00	33750.00
	1.13.9	3 X 16 sq. mm in 32mm conduit	95	Mtr	397.00	37715.00
18	1.11	Wiring for power plug point with 3 × 4 sq.mm FRLS PVC insulated stranded copper conductor wires for phase, neutral, and earth, laid in concealed FRLS PVC conduit of heavy-duty type (pipe thickness 2 mm), complete with modular type 16 A switch and 6/16 A socket outlet, including modular base, cover plate, suitable size G.I. box, earthing of switch box and socket outlet with same size wire, etc., as required and conforming to IS: 694 (2010) and IS: 9537 (Part 5, 2000).				
	1.11.1	Short Point	13	point	589.00	7657.00
	1.11.2	Medium Point	26	point	942.00	24492.00
	1.11.3	Long Point	13	point	1350.00	17550.00
19	1.7	Wiring for light / fan / exhaust fan / call bell point shall be carried out using 3 × 1.5 sq.mm FRLS PVC insulated stranded copper conductor wires for phase, neutral, and earth, drawn through concealed heavy-duty FRLS PVC conduit of minimum 2 mm wall thickness. The point wiring shall include 5/6 A modular switch, modular box, cover plate, and suitable size G.I. box, complete as required and in accordance with IS 694:2010 and IS 9537 (Part 5):2000.				
	1.7.1	Short Point	26	point	266.00	6916.00
	1.7.2	Medium Point	26	point	424.00	11024.00
	1.7.3	Long Point	26	point	588.00	15288.00
20	1.9	Extra for providing and fixing light plug point on board in concealed heavy-duty FRLS PVC conduit (pipe thickness 2 mm), complete with point wiring, modular type 3-pin 5/6 A socket outlet, and 5/6 A switch, including cost of base, cover plate, G.I. box, etc., complete as per specifications and conforming to IS 694:2010 and IS 9537 (Part 5):2000.	26	point	216.00	5616.00

21	12.3	Earthing with copper earth plate of size 600 mm × 600 mm × 3 mm thick, complete with all accessories, including masonry enclosure with cover plate having locking arrangement, watering pipe, charcoal and salt, as per specification and conforming to IS 3043:1987 (R2016).	2	set	6209	12418
22	12.4	Supplying and laying 8 SWG copper wire at a depth of 0.50 m below ground level for connection to the conductor earth electrode, including soldering complete, as per specification.	40	mtr.	77.00	3080.00
23	9.5	Supplying and fixing, on surface or recessed, vertical type 415 V TPN MCB distribution board made of sheet steel, phosphatized and powder-coated, complete with 200 A tinned copper busbar, common neutral link, earth bar, DIN bar, detachable gland/knockout plate, including interconnections, earthing, etc., as per specification, excluding MCB/RCCB/Isolator.				
	9.5.5	8 way (4+24)	2	each	5138.00	10276.00
24	9.11	Supplying and fixing SP MCB, 240 V, 'C' curve, suitable for inductive loads, in the existing MCB distribution board, complete with all connections, testing, and commissioning, as per specification.				
	9.11.2	6 amps to 32 amps	26	each	148.00	3848.00
25	5.4	Supply and fixing of modular switches, sockets, and other accessories on the existing modular plate and switch box, including all necessary connections, but excluding the modular plate, complete as per specification.				
	5.4.1	5/6 amps one way switch	80	each	69.00	5520.00
	5.4.4	15/16 amp switch	54	each	89.00	4806.00
	5.4.5	3 pin 5/6 amp socket outlet	54	each	96.00	5184.00
	5.4.6	6 pin 15/16 amp socket outlet	26	each	120.00	3120.00
	5.4.9	Fan regulator (two module size) electronic stepped type moving all rounds	26	each	186.00	4836.00
26	6.1	Supplying, installation, testing, and commissioning of ceiling fans of the following sizes, complete with down rods of standard length up to 30 cm, wired with 1.5 sq. mm FRLS PVC insulated single-core copper conductor cable, including earthing and all necessary accessories as required. The fan shall have a power factor not less than 0.9, BEE star rating of 3-star or higher, and shall conform to IS 374:2019 with all amendments.				
	6.1.3	1200mm sweep	26	each	1697.00	44122.00
27	6.8	Supplying, installation, testing and commissioning of fancy exhaust fan of following sizes, with built-in louvers, in the existing wall opening, including earthing, complete as per specifications. The power factor (P.F.) shall not be less than 0.9.				
	6.8.1	225mm sweep	26	each	1161	30186.00

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OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.

ESTIMATE OF BORING & WATER SUPPLY

(Building SOR Items) W.E.F. - 01/01/2015

S.NO.	S.O.R. NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by itable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.				
	21.1.1	All types of soil				
	21.1.1.3	150MM DIA				
			30	Rmt	339.00	10170.00
	21.1.2	Rocky strata including Boulders.				
	21.1.2.3	150MM DIA	75	Rmt	396.00	29700.00
2	21.3	Supplying, assembling, lowering and fixing in vertical position in bore well,unplasticized PVC medium well casing (CM) pipe ofrequired dia,conforming to IS: 12818, including required hire and labour charges,fittings & accessories etc. all complete, for alldepths, as per direction of Engineer –in-charge.				
	21.3.3	150mm nominal size dia	30.00	Rmt	540.00	16200.00
3	21.10	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully				
		developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw downetc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tube well, all complete,including hire& labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge	5.00	hour	654.00	3270.00

4	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:				
	21.11.3	150mm nominal size dia	1.00	each	217.00	217.00
5	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tubewell within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable	1.00	each	1,502.00	1502.00
6	26.3	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required.				
	26.3.5	5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm	1.00	Nos	26,072.0	26072.00
7	23.6	(PWD ELECTRICAL-01-06-2020) and fixing following dia HDPE pipe PE-80 Grade (8kg/sqcm) in single length in the suction/ delivery line of water supply pump etc. as per specification.				
		63 mm dia.	105.00	RM	190.0	19950.00
8	18.1	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	18.1.3	White Orissa pattern W.C. pan of size 580x440 mm	4.00	Each	2,899.0	11596.00
9	18.13	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:				
	18.13.1	Flat back half stall urinal of size 460x380x250mm	4.00	Each	1,776.0	7104.00

9	18.17	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :				
	18.17.6	White Surgeon type size 660x460 mm	2.00	Each	2,587.0	5174.00
10	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	18.25.1	32 mm dia	2.00	Each	68.5	137.00
11	18.76	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.				
	18.76.1	75 mm dia pipe.	220.00	Rm	182.0	40040.00
	18.76.2	110 mm dia pipe.	273.30	Rm	267.0	72971.10
12	18.77	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.				
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90°				
	18.77.1.1	75 mm	12.00	Each	113.0	1356.00
	18.77.1.2	110 mm	52.00	Each	154.0	8008.00
	18.77.2	Double "Y" with or without door				
	18.77.2.1	75 mm	12.00	Each	129.0	1548.00
	18.77.2.2	110mm	52.00	Each	224.0	11648.00
	18.77.4	Access door cap				
	18.77.4.1	75mm	12.00	Each	49.5	594.00
	18.77.4.2	110mm	52.00	Each	59.0	3068.00
	18.77.5	P trap 110mmx110mm long	52.00	Each	227.0	11804.00
	18.77.6	Nahani trap 110x75mm	52.00	Each	90.5	4706.00
	18.77.8	Plain reducing Tee 110x75mm	52.00	Each	85.9	4466.80

13	18.78	Providing and fixing UV stabilized Unplasticised -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	18.78.1	75mm	12.00	Each	57.0	684.00
	18.78.2	110mm	52.00	Each	61.0	3172.00
14	19.5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		CONCEALED WORK including cutting chases and making good the walls etc.,				
	19.5.3	25 mm nominal outer dia .Pipes.	280.00	Rm	213.0	59640.00
15	19.14	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:				
	19.14.1	Bib cock (400 grams)	52.00	Each	382.0	19864.00
	19.14.13	Toilet paper holder	4.00	Each	248.0	992.00
16	19.15	Providing and fixing stainless steel drain jali of approved make/quality.	180.40	Each	51.0	9200.40
17	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank				
			8,000.00	litre	7.3	58400.00
18	19.43	Cutting holes more than 20x20 cm and upto 30x30 cm in walls including making good the same :				
			50.00	Each	125.0	6250.00

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OFFICE OF THE MUNICIPAL CORPORATION KORBA (C.G.)						
PROPOSED MUTTON MARKET - KORBA						
ESTIMATE OF SELF SUPPORTED ROOFING						
Non SOR						
S.NO.	S.O. R.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Non SOR	Self Supported Roof : Providing and fixing of self supported mechanically seamed roofing system for Hydraulic operated profile machine(American MIC) for fabricating, seaming, bolting, etc. such as Proflex Systems , Kailash roofing , Green curve or equivalent made of high quality steel having 350MPA yield strength, pre coated galvalume sheet as per ASTM A 792M base metal of thickness 0.80mm to 1.60mm (tolerance ± 0.02 mm). High grade steel sheet should have 55% aluminum and 45% Zinc coating by hot-dip process of minimum 25 micron on top side and 12 micron on back side with epoxy primer and polyester wash-coat as per AZM 150. Roofing should be designed as per ASCE 7-02 international building code 2002. The analysis should be carried out for span and centre arch-rise considering the required live load, wind load, dead load and seismic factor. The analysis should also determine the thickness of steel and the end reaction at the beam level. Shop drawing of roofing system shall be submitted by contractor and approved by department. The roof panel formation is done as per the required length and curvature using hydraulic profile machine to give				
		it the trapezoidal shape in required curvature. In this process the width of the sheet reduces from 0.925 m to 0.61m (tolerance ± 0.10 m). The roof panel should be lifted using a suitable crane and using a spreader bar and a sling evenly placed to ensure no distortion of the panels during lifting and placing. The crane shall hold/support the panel till the alignment is done and completed using a plumb and a water tube and bolted into beam. These curved panels have interlocking formation and are crimped together using mechanically seaming machine which imposes a load of approximately five tones to ensure the seaming is of required rigidity. After seaming a clear epoxy lacquer is applied on the inner side of panel end in 15cm width to form a protective layer between panel and concrete beam. These panels are installed over water proof concrete gutter-beams having beveled edges to receive (support) curved panels. Beams				
		Plaster should not apply on the beam. Schmidt Hammer test of the concrete should be carried out before erection to ensure that the anchor bolt could be securely fixed on support. In case of steel structure a steel runner plate of 6mm thickness and G.I. sheet of suitable size shall be provided for installation of panels. G.I anchor bolt of required size and type with G.I washer and neoprene washer should be provided as per design.				
		After installation of panel, trapezoidal voids are created between gutter-beam and panels which should be covered by a flashing fabricated or brick-masonry				
			379.5360	Sqm		