

कार्यालय, नगर पालिक निगम, कोरबा (छत्तीसगढ़)

फा.नं. 197 / निमोण / 2023

रिस्टम टेंडर नं. 151663

कोरबा दिनांक 15.01.2024

ई-निविदा आमंत्रण सूचना

कार्यालय नगर पालिक निगम, कोरबा द्वारा लोक निर्माण विभाग एकीकृत पंजीयन प्रणाली अंतर्गत राक्षम श्रेणी में पंजीकृत ठेकेदारों से प्रमुख अभियंता लोक निर्माण विभाग, रायपुर द्वारा भवन कार्य हेतु दिनांक 01.01.2015, विद्युत व मेकेनिकल हेतु 01.06.2020 से प्रभावशील दर अनुसूची पर (निविदा खुलने के दिनांक तक समस्त शोधनों 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)	घरोहर राशि (FDR/TDR)	कार्यावधि	निविदा प्रतिभागी शुल्क (DD)	ठेकेदार का वर्ग	निविदा खुलने की तिथि
1	वार्ड क्र 16 कोहड़िया अंतर्गत जल उपचार संयंत्र के सामने उद्यान का निर्माण कार्य 3 वर्ष मरम्मत एवं संधारण के साथ	54.00	40500/-	6 माह	3000.00	वर्ग डी एव प्रवर श्रेणी	09.02.2024 से

शर्तें

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 दरो 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 (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 गतिष्य निधि रायपुर से पंजीकरण का कोड, निविदा प्रतिभागी शुल्क का डिमाण्ड ड्राफ्ट एवं घरोहर राशि FDR/TDR, शपथपत्र का स्कैन कापी ऑन लाईन रिस्टम 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।
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। उद्यान में सिविल निर्माण कार्यों के साथ साथ पौधों की सुरक्षा एवं रख रखाव का कार्य भी 3 वर्षों तक ठेकेदार को करना आवश्यक होगा।
5. जिन निविदाकारों द्वारा कर्मचारी गतिष्य निधि संगठन एवं कर्मचारी राज्य बीमा निगम, रायपुर से पंजीयन कराकर कोड प्राप्त कर लिया हो वे निविदाकार ही निविदा हेतु पात्र होंगे।
6. निविदा में भाग लेने वाले ठेकेदारों को छ मा. 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।
7. ईट से संबंधित निर्माण कार्यों में फ्लाइ एश ब्रिक का उपयोग किया जाना अनिवार्य होगा।
8. प्रयुक्त लोहा का विल एवं टेस्ट रिपोर्ट तथा प्रयुक्त सीमेंट का विल संलग्न करना अनिवार्य होगा।
9. निविदा दरो असामान्य जमी 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 अहस्तातरणीय होगा एवं शर्त निविदाओं पर विचार नहीं किया जावेगा।
11. निविदा प्रपत्र फार्म -ए की कंडिका 11 अनुसार एस्केशन 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।

प्रतिलिपि-

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

कार्यपालक अभियंता
नगर पालिक निगम
कोरबा (छत्तीसगढ़)

Date-Time Detail(s)

Seq. No.	Nagar Nigam Stage	Contractor Stage	Start		Expiry		Remarks
			Date	Time	Date	Time	
1	Release Tender		15.01.2024	18.30	15.01.2024	18.30	Release Tender
2		Bid Submission	15.01.2024	18.30	08.02.2024	17.30	
3		Physical Document Submission	15.01.2024	18.30	09.02.2024	15.00	
4	Tender Open		09.02.2024	16.00	--	--	


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

TENDER/NIT HEADER DETAIL

ORGANIZATION NAME	Urban Administration and Development Department (UADD)	PROCUREMENT CATEGORY	WORKS
TENDER NO.	151663	TENDER DEALING OFFICER	- Akhileshwar Prasad Shukla (DFLT)
NUMBER OF ITEMS ALREADY ATTACHED	1	MATCHING	NO
CURRENCY	INR - INDIAN RUPEE	TENDER CATEGORY	PERCENTAGE
NIT TYPE	RESTRICTED TENDER	OFFICE/DIVISION (PWD)	COMMISSINOR, MUNICIPAL CORPORATION, KORBA
VENDOR CLASS	A, B, C, D	NAME	TENDER SECTION
PROBABLE AMOUNT OF CONTRACT (PAC) (INR)	5399831.00	SECTION/CIRCLE (PWD)	
DIVISION / DISTRICT	MUNICIPAL CORPORATION, KORBA	NAME	
DESCRIPTION	Ino. 197/ const/T.P.Nagar Zone/	NAME	
DETAILED DESCRIPTION	Construction of Garden Infront of		
IS AUCTION ENABLED?	N		
NUMBER OF BID PART(S)	2	BID PART NUMBER	1

ATTRIBUTE(S)

ATTRIBUTE NAME	ATTRIBUTE VALUE
BID VALIDITY PERIOD (in days)	120
Tender / Work Completion Time (in months)	6 (VALUE)
Required Past Technical Experience	AS PER Tender Document / NIT
Required Financial Turnover (in INR)	AS PER NIT
Required Bid Capacity (in INR)	AS PER NIT

PAYMENT DETAILS

DETAILS	
Tender/Processing/Bid Fees	N/A
EMD/Bid Security	40500.00 INR

DATE-TIME DETAIL(S)

BID SUBMISSION START DATE	Jan 15, 2024 07:30:36:PM	BID DUE DATE	Feb 8, 2024 05:30:45:PM
BID OPEN DATE (SCHEDULED)	Feb 9, 2024 04:00:15:PM	PHYSICAL DOC SUBMISSION END DATE	Feb 9, 2024 03:00:38:PM

PRE-BID DISCUSSION DETAILS

PRE-BID DISCUSSION NOT REQUIRED

ALTERNATE BID DECRYPTOR(S)

USER DETAILS
MR BUYER ADMIN (DFLT)
MANGRANJAN SARKAR (DFLT)
Mitresh Verma (DFLT)
Ran Kumar Maheshwari (DFLT)
ARUN KUMAR SHARMA (DFLT)
Bhuvan Ram Oraon (DFLT)
Akhileshwar Prasad Shukla (DFLT)

TERM AND CONDITION DETAIL(S) - SPECIAL TERM(S)

SL. NO.	CATEGORY	DESCRIPTION
1	SPECIAL TERM(S)	SPECIAL TERM(S) AS PER Tender Document / NIT

TENDER SPECIFIC REQUIRED ATTACHMENT(S)

Envelop B

SL. NO.	SUPPORTING DOCUMENT NAME	MANDATORY	ALLOW EXEMPTION	GROUP
1	PARTNERSHIP/POUD/PCA OF COMPANY (IF REQUIRED)	YES	NO	OTHER
2	DECLARATION FOR NOT BEING BLACK LISTED	YES	NO	OTHER
3	LIST OF TECHNICAL STAFF DETAIL	YES	NO	OTHER
4	GST CERTIFICATE FROM CHHATTISGARH	YES	NO	OTHER
5	DECLARATION FOR NOT ABOVE TOTAL WORK OF REGISTRATION CAPACITY	YES	NO	OTHER
7	REGISTRATION CERTIFICATE ANY GOVT DEPT IN CHHATTISGARH	YES	NO	OTHER

OFFICE OF THE MUNICIPAL CORPORATION, KORBA (C.G.)
DETAILED ESTIMATE


Name of work: LAND SCAPING AND PARKING

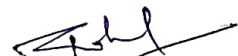
S.No.	S.O. R.N	Description of Item	No.	L	B.	D./H.	Qty.	Unit	Rate	Amount
		SOR ITEMS								
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils								
		For Flower bed Wall Along Boundry Wall	1	365.00	0.30	0.30	32.85			
			200	0.60	0.90	1.80	194.40			
			1	180.00	1.80	0.20	64.80			
			1	50.00	12.00	0.20	120.00			
							292.05	cum	185.00	54029.25
2	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.								
			1	50.00	12.00	0.10	60.00			
							60.00	cum	371.00	22260.00
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 : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		foot path	1	180.00	1.80	0.10	32.40			
			1	50.00	12.00	0.10	60.00			
							92.40	cum	2970.00	274428.00

	12.6	Providing and planting of 3"0" to 5"0" height wasingtonia, filicaria/bismarkia novelist plam plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.								
			80.00				80.00	Each	936.00	74880.00
9	12.7	Providing and planting of 4"0" to 5"0" height Ficus prestige/Blackiana plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.								
			110.00				110.00	Each	661.00	72710.00
10	12.9	Providing and planting of dwarf red Ekalyha plants showing mass effect view with 0"9" x 0"9"x1"0" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.								
			60.00				60.00	Each	73.00	4380.00
11	12.1	Providing and planting of Golden durenta multi branches plants for showing mass effect in 0"6" x 0"6" distance with soil preparation work"s, (Mixing organic manure								
			150.00				150.00	Each	182.00	27300.00
	Buil ding									
12	11.1	Maintenance of Lawns or Turfing of Slopes (Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering etc.)								
			1.00	30.00	25.00		750.00	SQM	131.00	98250.00
13	11.2(B)	Maintenance of Hedge for one year								

		FOR THREE YEAR	1.00	280.00			280.00	Meter	138.00	38640.00
	Building									
14	22.2	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 10 km (earth measured in stacks will be reduced by 20% for payment).								
		Garden Area	1.00	135.00	35.00	0.20	945.00			
		85% of EARTH				75%	708.75	cum	201.00	142458.75
15	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 10 km (manure measured in stacks will be reduced by 8% for 15% of cow dung				25%	236.25	cum	236.00	55755.00
16	22.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).								
		Earth For Garden					708.75			
		Sludge For Garden					236.25			
							945.00	cum	17.50	16537.50
17	12.8	Providing and fixing plain cement concrete fibre reinforced heavy duty designer glazed floor tiles with uniform colour (for coloured tiles) and texture conforming to IS: 1237 (for abrasion wear) and IS : 516 (for compressive strength) of approved make, colours, shades and size on cement Mortar bed and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white On floor, steps and risers over 20mm thick bed of cement Mortar	1.00	180.00	1.80		324.00	sqm	905.00	293220.00
load S.O.R									TOTAL- A	1470798.70
K		Pre-cast cement concrete Grass pavers 80mm thk								

18	4.15 c Road	Providing and laying factory made chamfered edge Cement Concrete grass paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand Area	1	50	12	600	Sqm	732	439200	
19	DSR 16.9 2 2018	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1cement:4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in charge.	1	4.5	2.2	9.9	Sqm	1897.95	18789.705	
20		Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia. holes, 1 m. deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree	1	150		150	each	750	112500.00	
							TOTAL- B		570489.71	
			TO SAY - A+B							2041288.41


Sub Engineer
Municipal Corporation
Korba (C.G.)


Asst. Engineer
Municipal Corporation
Korba (C.G.)

OF THE MUNICIPAL CORPORATION, KORBA (C.G.)
DETAILED ESTIMATE


of work:- BOUNDARY WALL


per SOR. Schedule of rates public works department [PWD BUILDING-01-01-2015]

SOR Ref.	ITEM DESCRIPTION	NO	L	B	D/H	QTY	UNIT	RATE	AMOUNT
	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.								
		28	0.3	0.5	0.6	2.52			
						2.52	CUM	768	1935.36
1	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 In all types of soil								
	column	76	1.20	1.20	2.00	218.88			
	for expansion	10	1.20	1.20	1.20	17.28			
	below plinth	1	365.00	0.40	0.40	58.40			
					Total	294.56	Cum	185.00	54493.60
2	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 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level								
		86	4	1.10	0.25	94.60			
		86	1.00		2.10	180.60			
	plinth beam	2	365		0.30	219.00			
					Total	494.20	Sqm	139.00	68693.80
	5 Columns, Pillars, Piers and likes-rectangular or square in shape								
		86	1.00		1.5	129			
					Total	129.00	sqm	297.00	38313.00
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.								
	column	86	1.20	1.20	0.10	12.38			
	below plinth	1	365.00	0.40	0.10	14.60			
					Total	26.98	Cum	371.00	10011.06

		Providing and laying nominal mix plain reinforced concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.											
	3	1:3 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).											
		column	86	1.20	1.20	0.10	12.38						
		below plinth	1	365.00	0.40	0.10	14.60						
						Total	26.98	Cum	2659.00			71750.46	
5	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											
						Total	369.00	Cum	65.00			23985.00	
6	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.											
	1	1.1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).											
		raft c1	86	1.10	1.10	0.25	26.02						
		column below plinth	86	0.20	0.300	2.10	10.84						
		plinth beam	1	365.00	0.200	0.30	21.90						
			114	0.20	0.300	1.50	10.26						
			1	40.00	1.300	0.20	10.40						
						Total	79.41	Cum	4163.00			330587.99	
7	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:											
			80		79.41		6352.88						
						Total	6352.88	kg	54.50			346231.96	
8	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:											
	3	Cement Mortar 1:6(1 cement : 6 coarse sand)											
			1	365.00	0.20	0.20	14.60						
			1	150.00	0.20	1.50	45.00						
			1	215.00	0.20	0.60	25.80						
						Total	85.40	Cum	3263.00			278660.20	
9	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:					70.80	Cum	121			8566.80	

		laying nominal mix plain concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
5	1:1:3	(1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	1	365.00	0.20	0.05	3.65			
						Total	3.65	Cum	4073.00	14866.45
1	11.2	Providing and making 12mm thick cement plaster of mix								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			1	150.00		1.80	270.00			
			1	215.00		1.50	322.50			
						Total	592.50	sqm	91.50	54213.75
2	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			1	150.00		1.80	270.00			
			1	215.00		1.50	322.50			
						Total	592.50	sqm	107.00	63397.50
3	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.					1205.00	sqm	41.00	49405.00
	1	On new work (Two or more coats)								
		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								
			1	215.00	1.00	11.40	2451.00			
		gate					325.00			
							2776.00		88.50	245676.00
									TOTAL=	1660787.93


 Sub Engineer
 Municipal Corporation
 Korba (C.G.)


 Asst. Engineer
 Municipal Corporation
 Korba (C.G.)

THE MUNICIPAL CORPORATION, KORBA (C.G.)

DETAILED ESTIMATE

LIGHTING

SOR No.	Description	unit	Qty	Rate	Amount
1	19.6				
	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 3mm thick anchor plate, 4 nos 16mm 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)				
	19.6.2	Each	14.00	5942.00	83188.00
	4 metre high, dia 130mm at bottom and 75mm at top, base plate size 200x200x12mm, foundation bolts 450mm long				
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.				
	19.9.7	Each	14.00	1869.00	26166.00
	Double Over Hang 1.50 metre Long				
	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 Part 3)				
	19.8.3	Each	2.00	20261.00	40522.00
	11 metre high, dia 210mm at bottom and 90mm at top, base plate size 300x300x20mm, foundation bolts 750mm long				
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.				
	19.11.2	Each	14.00	604.00	8456.00
	4 metre high				
	19.11.9	Each	2.00	1125.00	2250.00
	11 metre high				


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	180	97	17460.00
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 curing etc. as per specification.				
		TOTAL pole (0.8x.8x.8x.8) at Every 20 mtr	cum	5.50	5219	28704.50
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.				
	14.2.1	63 mm outer dia	Metre	120	124	14880.00
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.				
	14.3.3	100 mm internal dia	Metre	10.00	879.00	8790.00
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)				
	15.1.24	4 x 25 sq. mm.	Metre	180.00	321	57780.00
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.				
	15.23.25	4 X 25 sq. mm (25 mm)	Each	5.00	104.00	520.00
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	2.00	3243.00	6486.00

		ing 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	2.00	6209.00	12418.00
12	1.12	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	50.00	36.00	1800.00
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 coating painting but without busbars, switchgears and other accessories etc				
	7.19.1	Upto 300 mm deep	sqm	1.00	6818.00	6818.00
13	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	15.00	717.00	10755.00
14	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	2.00	55.00	110.00
15	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	10.00	3734.00	37340.00
16	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	8.00	148.00	1184.00
17	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	5.00	411.00	2055.00

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	2.00	1316.00	2632.00
19	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	5.00	94.00	470.00
20	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.				
	10.18.2	0-100 amps	Each	5.00	372.00	1860.00
21	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.				
	10.20.1	Analog type	Each	3.00	397.00	1191.00
22	10.21	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.21.1	For voltmeter	Each	3.00	189.00	567.00
	10.21.2	For ammeter	Each	3.00	207.00	621.00
		LED FOR POLE				
	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.				
	6.28.8	90 watt	Each	28.00	5531.0	154868.00
	6.29	Supplying of following 230/250 volts LED Flood 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, Seperate housing for driver etc complete as per specification and P.A. should be greater than				
	6.29.2	150 watt		12.00		
			Each	12.00	9347.0	112164.00
		Total cost in Lacs				6,42,055.50


 Sub Engineer
 Municipal Corporation
 Korba (C.G.)


 Asst. Engineer
 Municipal Corporation
 Korba (C.G.)

GAZEBO

	PARTICULAR	NO.	L	B	H/D	QTY.	UNIT	RATE (in	AMOUNT (in Rs.)
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.								
	(BUILDING SOR ITEM NO.-1.1/9)								
	C1-	8	1.50	1.20	2.50	36.00			
						36.00	CUM	185.00	6660.00
2	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm. In depth consolidation each deposited layer by ramming and watering with a lead upto 50M. And lift upto 1.5M.								
	(BUILDING SOR ITEM NO.1.17/11)								
	Deducting PCC, sand filling, Pedestrian,Column upto GL-					7.73	CUM	65.00	502.45
3	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.								
	(BUILDING SOR. ITEM NO.-1.18/11)								
	C1-	8	1.50	1.20	0.15	2.16			
	Plinth	1	11.40	0.5	0.10	0.57			
		1	11.80	1	0.10	1.18			
						3.91	CUM	371.00	1450.61
4	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.								
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		8	1.50	1.20	0.15	2.16			
	Flooring-	1	11.40	0.5	0.10	0.57			
	Steps	1	11.80	1	0.10	1.18			
	(BUILDING SOR. ITEM NO.- 3.1/23)					3.91	CUM	2970.00	11612.70
5	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								
	(BUILDING SOR. ITEM NO.-12.65/120)								
	Floor-	1	11.78	SQ.M	-	11.78	SQM	632.00	7444.96

	laying nominal mix cement concrete with crushed aggregate using concrete mixer in all plinth level 1:1½:3 (1 cement : 1½ coarse sand : 3 graded)												
	(BUILDING SOR. ITEM NO.- 3.2.1/23)												
	F1- Column upto GL-	8	1.30	1.20	0.25	3.12							
	C1-	8	0.90	0.90	0.40	2.59							
	Pedestial- pl	8 1	0.28 11.40	1.00 0.30	5.50 0.30	12.32 1.03							
						19.06	CU	4163.00				79338.45	
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings Thermo-Mechanically treated bars FE 415 (BUILDING SOR. ITEM NO.-3.12.1/24)												
						Quantity as per item No.-7				19.06			
						100kg/cum				1905.80	KG	54.50	103866.10
9	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. Foundations, footings, base of columns and plinth footing Pedestial- PB												
		32	0.90	-	0.40	11.52							
		32	1.88	-	5.50	330.88							
		2	11.80		0.30	7.08							
	(BUILDING SOR ITEM NO.- 2.1/16)					349.48	SQ	139.00				48577.72	
10	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth Cement Mortar 1:6 (1 cement : 6 coarse sand) plinth Steps												
		1	12.49	0.20	0.60	1.50							
		1	1.20	0.30	0.45	0.16							
		1	1.20	0.30	0.30	0.11							
		1	1.20	0.30	0.15	0.05							
						1.82	CU	3263.00				5947.80	
	(BUILDING SOR ITEM NO.- 7.5.4/45)												
11	Providing and making 12mm.thick cement plaster of In Cement Mortar 1:6 (1 Cement : 6 fine Sand) (BUILDING SOR. ITEM NO.-11.2/103) PLINTH												
		2	12.49	-	0.60	14.99							
						14.99	SQ.	91.50				1371.59	
12	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. (BUILDING SOR ITEM NO.-14.13/133)												
						14.99	SQ.	94.50				1416.56	


	... tubular (round, square or hollow tubes etc.) structure in built-up trusses and frame work including ... fixing in position upto a height of ... 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								
	9.3.1 Electric resistance or induction butt welded								
	(BUILDING SOR. ITEM NO.-9.3.1/80)								
	vertical column, roof truss	1	18.85	SQM		18.85			
					50kg/sqm	942.40			
						942.40	KG	93.50	88114.40
14	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								
	roof					18.85			
	(BUILDING SOR. ITEM NO.- 10.12/91)	1	18.85	SQM	-	18.85	SQ M	693.00	13063.05
15	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.								
	9.57.2 SS Grade 304	1	10.09	-	0.90	9.08			
					12KG/SQ.M	108.96	KG	525.00	57204.00
	Cement art Mural work	8	0.28		3.5	7.84			
		4	11.8		0.28	13.216			
						21.056	sqm	3500	73,696.000
									(For One) Total Rs. 500266.3804


3

OFFICE OF THE MUNICIPAL CORPORATION, KORBA (C.G.)
DETAILED ESTIMATE

WATER SUPPLY

5	19.4	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 testing of joints complete as per direction of Engineer in Charge.								
	1	15 mm nominal outer dia .Pipes.				430.00	metre	110.00	47300.00	
	4	32 mm nominal outer dia .Pipes.				380.00	metre	271.00	102980.00	
	20.6	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths ISI marked HDPE pipes of PE-100 grade and PN 6 for sewer application as per IS 14333-1996 (amended upto date) in trenches in complete including all material, labour, testing and commissioning as per direction of Engineer.								
		100 mm dia	3	10		30.00	M	366.00	10980.00	
7	19.1	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:								
	6	Stop cock (concealed) (600 grams				20.00	each	494.00	9880.00	
									TOTAL =	171140.00


Sub Engineer
Municipal Corporation
Korba (C.G.)


Asst. Engineer
Municipal Corporation
Korba (C.G.)

(6)

CONSTRUCTION OF GUARD ROOM										
S. No.	S.O.R. ITEM NO.	Item	Nos	L.	B.	H/D	Quantity	Unit	Rates	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).								
		Plot area	1	4	4	-	16			
						Total	16	sqm.	7.2	115.00
2	1.1.1	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. In all Type of Soil.								
		For Main Column A								
		F1	4	1.5	1.5	1.5	13.5			
						Total	13.5	cum.	185	2498.00
3	1.6	Extra for every additional lift of 1.5 m or part there of All types of soil								
		For Main Column A								
		F1	4	1.5	1.5	0.3	2.7			
						Total	2.7	cum.	26.5	72.00
4	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.								
		For Main Column A								
		F1	4	1.50	1.50	0.1	0.9			
		Building	1	3.00	3.00	0.6	5.4			
						Total Qty.	6.3	cum.	371	2337.30
5	3.1.3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:3:6 (1 cement :3 coarse sand :6 graded stone aggregate 40 mm nominal size.								
		For Main Column A								
		F1	4	1.4	1.4	0.10	0.784			
		floor area	4	3.0	3.0	0.10	3.6			
						Total	4.384	cum.	2970	13020.00

6	3.2.1	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).							
		Footing F1/C1	4	1.30	1.30	0.35	2.366		
		for column up to plinth lvl.							
		For Main Column A	4	0.20	0.30	1.25	0.3		
		ground beam ,plinth beam size:GB2 (200*300)							
			4	3.0	0.20	0.3	0.72		
						TOATAL	3.386	cum.	4163 14096.00
		Column A	4	0.20	0.30	3.00	0.72		
		lintel beam							
		Size -200*200	1	3.00	0.20	0.20	0.6		
		chhajja							
		W1+D1	1	3.00	0.60	0.10	0.18		
		v1	1	0.90	0.60	0.10	0.054		
		SLAB BEAM size:200*400					0.72		
		SLAB DETAILS	4	3.00	0.20	0.40			
		BUILDING AREA	1	3.00	3.00	0.12	1.08		
		platform	1	3.00	0.45	0.10	0.135		
						Total	3.489		
		Dedection Slab beam	4	3.0	0.2	0.12	0.288		
							0.288		
						Total	3.201	CUM	4163 13325.76
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					3.201	CUM	97.5 312.10
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					3.201		
		100 Kg / cum. of R.c.c. work					320.1	KG.	54.5 17445.00
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	-	0.35	7.28		
		for column up to plinth lvl.							
		For Main Column A	4	1.00	-	1.65	6.6		
		Ground beam , Plinth beam							
		size:GB2 (200*300)							
			4	3.00	-	0.70	8.4		
			4	3.00	-	0.60	7.2		
						Total	29.48	sqm.	139 4098.00
10	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	4	0.80	-	3	9.6		
						Total	9.6	sqm.	297 2851.00
11	2.1.13	Weather shade chhajja ,cornices and mouldings.							
		chhajja	-	-	-	-	-		
		W1	1	3.00	0.70	-	2.1		
		v1	1	0.90	0.70	-	0.63		
		SIDE	4	3.90	0.10	-	1.56		
						Total	4.29	sqm.	294 1261.00
12	2.1.8	Beams ,Lintels, Cantilevers & walls							
		intel beam							
			1	3.00	-	0.60	1.8		
		Slab Beam							
		size:200*400	4	3.00	-	1.00	12		
						Total	13.8	Sqm.	202 2788.00
13	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)							
		Building Area	1	3.00	3.00	-	9		
						Total	9	sqm.	235 2115.00
14	7.5.4	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	3.00	0.20	0.45	0.27		
						Total	0.27	cum.	3263 881.00

15	7.5.4	Brick work with modular FLY ASH lime bricks (flag brick) confirming to ISI 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 additional to rate for foundation and plinth:							
		UP TO SLAB BEAM	4	3.00	0.20	2.60	6.24		
		PERPIT WALL	4	3.00	0.20	0.30	0.72		
						Total	6.96		
		Deduction							
		D1	1	1.00	0.20	2.40	0.48		
		W1	1	1.50	0.20	1.50	0.45		
		V1	1	0.90	0.20	0.60	0.108		
						(-)	1.038		
						Total	5.922	cum.	3263 19323.00
	7.5.4	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) brick work					5.922		
							5.922	CUM	121 716.56
16	3.13	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.							
		Outer	4	3.00	0.20	0.075	0.18		
						Total	0.18	cum.	4237 763.00
17	11.1.2	Providing and making 6mm thick cement plaster of mix : In Cement mortar 1:4 (1 cement : 4 fine sand)							
		Building CELLING	1	2.60	2.60	-	6.76		
		chhajja				-			
		W	1	3.00	0.70	-	2.1		
		v1	1	0.90	0.70	-	0.63		
		SIDE	4	0.60	0.10	-	0.24		
						Total	9.73	sqm	87 847.00
18	11.2.3	Providing and making 12mm thick cement plaster of mix: in cement mortar 1:5(1 cement : 5 fine sand)							
		INER WALL	4	2.60	-	2.88	29.952		
							29.952	sqm.	
		Deduction							
		D1	1	1.00	-	2.40	2.4		
		W1	1	1.50	-	1.50	2.25		

		V	1	0.90	-	0.60	0.54						
						(-)	5.19	sqm.					
						Total	24.762	sqm.	96.5	2390.00			
19	11.3.4	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix In Cement Mortar 1:5 (1 cement : 5 fine sand)											
		Outer Wall Front	4	3.00	-	3.70	44.4						
		Window grooving	1	1.50	-	0.20	0.3						
							44.7						
		Deduction(-)											
		D1	1	1.00	-	2.40	2.4						
		W1	1	1.50	-	1.50	2.25						
		V	1	0.90		0.60	0.54						
							5.19						
						Total	39.51	sqm.	113	4465.00			
20	14.13	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.											
		Same as item total plaster						74.002	sqm	94.5	6993.00		
21	14.11.1	Wall painting with acrylic luxury emulsion (plastic) paint of Required Shade to give an even shade. On new work(two or more coats)											
		Same as item Ceiling & inner						34.492	sqm.	52.5	1811.00		
22	14.15.1	Painting exterior surface with ACRYLIC SMOOTH exterior paints of required shades as per manufacture specification to give protective and decorative finish including cleaning washing of surface etc. complete with											
		on new work (two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)											
		Same as item outer plaster						39.51	sqm.	56	2213.00		
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	4.00	3.00	0.20	-	2.4						
						Total	2.4	sqm.	93.5	224.00			

25	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	4	3	-	1.5	12		
						Total	12	sqm	273 3276.00
25	8.1.1	Providing wood work in frames of doors, Window s, clerestory windows and other frames wrought framed and fixed in position.							
		Teak Wood							
		D1	1.00	5.80	0.08	0.15	0.06525		
						Total	0.06525	cum.	114758 7488.00
26	8.6.1	Providing and fixing 40mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area) Teak wood							
		D1	1	1.00	2.40		2.4	sqm.	2906 6974.00
27	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.							
		W	1	1.50	-	1.50	2.25		
		V	1	0.90	-	0.60	0.54		
							2.79	sqm.	
						20 kg /sqm	55.8	KG.	67.5 3767.00
28	8.62.2	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete: 200x10 mm							
		D1	1	2.00	-	-	2.00		
						Total	2.00	each	231 462.00
29	8.65.1	Providing and fixing bright finished brass door handles with brass polished MS screws complete: 125 mm							
		D1	1	4.00	-	-	4.00		
						Total	4.00	each	55.5 222.00

30	8.80.2	Providing and fixing Anitque/S.S. finished brass door latch with necessary Antique/S.S. POLISHED MS screws complete: 300 x16x5 mm							
		D1	1	1.00	-	-	1.00		
						Total	1.00	each	280 280.00
31	8.73	Providing and fixing 150mm Antique/S.S. finished brass floor door stoppers with rubber cushion and antique/ S.S. Polished MS screws to suit thickness of shutters thickness.							
		D1	1	2.00	-	-	2.00		
						Total	2.00	each	77.50 155.00
32	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.							
		Building	1	1.00	-	-	1.00		
						Total	1.00	each	97.00 97.00
34	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing and panelling to be paid for separately							
	9.47.1	For Fixed Portion							
		W	1	6.00	-	-	6.00		
		V1	1	3.00	-	-	3.00		
					2.10 kg X		9.00	meter	
							18.90	kg	331 6256.00
35	9.49	Extra for Polyester powder coated (minimum 50 micron) aluminium sections instead of anodized.							
		same as item of alumunium fixed and shutter.					18.9	kg	34.5 652.00

7

OFFICE OF THE MUNICIPAL CORPORATION, KORBA (C.G.)
DETAILED ESTIMATE

Name of work:- TOILET

As per SOR: Schedule of rates public works department [PWD BUILDING-01-01-2015]


S.N.	SOR	ITEM DESCRIPTION	NO	L	B	D/H	QTY	UNIT	RATE	AMOUNT
1	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	In all types of soil								
			4	1.20	1.20	1.20	6.91			
			4	2.60	0.60	0.60	3.74			
						Total=	10.66	Cum	185.00	1971.36
2	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	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
			4	0.50	0.30		0.60			
			4	0.20	0.6		0.48			
			4	0.30	0.6		0.72			
			8	2.60	0.300		6.24			
						Total=	8.04	Sqm	139.00	1117.56
	5	Columns, Pillars, Piers and likes-rectangular or square in shape								
			8	0.20		3.30	5.28			
			8	0.30		3.30	7.92			
						Total=	13.20	sqm	297.00	3920.40
	7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
			1	3.00	3.00		9.00			
						Total=	9.00	sqm	235.00	2115.00
	8	Beams, lintels, cantilevers & walls								
			16	2.60	0.300		12.48			
						Total=	12.48	sqm	202.00	2520.96


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.								
			4	1.20	1.20	0.10	0.58			
			1	3.00	2.80	0.20	1.68			
						Total=	2.26	Cum	371.00	836.98
4	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	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
			4	1.20	1.20	0.10	0.58			
			4	2.60	0.60	0.10	0.62			
			1	2.60	2.60	0.10	0.68			
						Total=	1.88	Cum	2659.00	4988.28
5	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth,sides of foundation etc. in layers not exceeding 20cm in depthconsolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
							10.66			
						Total=	10.66	Cum	65.00	692.64
6	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.								
	1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		COLUMN	4	1.10	1.10	0.25	1.21			
		FOOTING	4	0.50	0.50	0.30	0.30			
			4	0.20	0.30	1.00	0.24			
			4	2.60	0.20	0.30	0.62			
			4	2.60	0.20	0.30	0.62			
			4	0.20	0.30	3.30	0.79			
		SLAB	1	3.00	3.00	0.13	1.13			
			2	3.00	0.60	0.10	0.36			

			4	2.80		2.10	23.52			
						Total=	23.52	sqm	587.00	13806.24
12	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.								
	1	Size 300x300mm	1	3.00	3.00		9.00			
						Total=	9.00	sqm	692.00	6228.00
14	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.								
		ventilator	2	12.00			24.00			
						Total=	24.00	Kg	67.50	1620.00
15	11.1	Providing and making 6mm thick cement plaster of mix								
	2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
			1	2.6	3.30		8.6			
						Total=	8.58	sqm	87.00	746.46
16	11.2	Providing and making 12mm thick cement plaster of mix								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	4	2.60		3.90	40.56			
						Total=	40.56	sqm	91.50	3711.24
17	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	4	3.00		3.30	39.60			
						Total=	39.60	sqm	107.00	4237.20

	14.51	Providing and applying 2mm thick ready mix exterior grade putty (manufactured with cow dung processing) on walls to make the surface smooth and even.							
						88.74			
					Total =	88.74	sqm	101.00	8962.74
	14.49	Wall painting with premium emulsion (plastic) manufactured with the cow dung processing emulsion paint of required shade to give an even shade..				49.14	sqm	69.00	3390.66
	1	On new work (Two or more coats)							
	14.5	Painting exterior surface with SMOOTH exterior emulsion paint manufactured with the cow dung processing to give protective and decorative finish including cleaning washing of surface etc. complete with:				39.60	sqm	79.00	3128.40
	1	On new work (Two or more coats applied 1.43 ltr/ 10 sqm over							
22	8.141	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.							
		8.141.2 150 mm			Total=	2.00	nos	49.50	99.00
23	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:							
		8.58.1 125x85x5.50 mm (Heavy Type)			Total=	2.00	nos	245.00	490.00
24	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.							
	1	Single			Total=	2.00	nos	47.00	94.00

8.149	Providing and fixing factory made PVC door shutters of specified thickness made of styles and rails of a UPVC hollow section of specified size 59x24 mm and wall thickness 2 mm \pm 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws.								
2	8.149.1 24 mm thick door shutters with styles and rails of size 59x24 mm side	1	1.00	2.10		2.10			
					Total=	2.10	sqm	2399.00	5037.90
								TOTAL=	151765.45



 Asstt. Engineer
 Municipal Corporation
 Korba (C.G.)

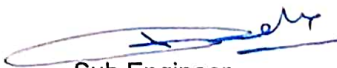

 Sub Engineer
 Municipal Corporation
 Korba (C.G.)

PART - B - SANITATION WORK

1	18.76	Providing and fixing on wall face 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.										
	1	75 mm dia pipe.	1	15.00			15.00	metre	182.00		2730.00	
	2	110 mm dia pipe.	1	40.00			40.00	metre	267.00		10680.00	
							2	each	2899.00		5798.00	
2	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 :										
	3	White Orissa pattern W.C. pan of size 580x440 mm										
							2	each	1605.00		3210.00	
3	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 :										
	1	White Oval or round size 550x400mm.										
4	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.										
	1	Tee/ Tee with door/ Bend 45°/ Bend 90°										
	1	75 mm					2.00	each	113.00		226.00	
	2	110 mm					10.00	each	154.00		1540.00	
	3	Vent cover										
	1	75 mm					4.00	each	34.00		136.00	
	6	Nahani trap 110x75mm					6.00	each	90.50		543.00	

	19.51	Constructing masonry Chamber 60x60x75 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :					2.00	each	4350.00	8712.00
13	19.42	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI 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.					1000.00	litre	7.30	7300.00
TOTAL =										59158.00
TOTAL=										210923.45


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