

कार्यालय, नगर पालिक निगम, कोरबा (छत्तीसगढ़)

फा.क्र. 1395/2024

सिस्टम टेंडर नं.158208

कोरबा दिनांक 30.08.2024

ई-निविदा आमंत्रण सूचना

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

1. फिजिकल सबमिशन लिफाफा प्राप्त होने की अंतिम तिथि - 24.09.2024 सायंकाल से 3.00 बजे तक
2. निविदा खुलने की अंतिम तिथि - 24.09.2024 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	वार्ड क्र. 29 पोड़ीबहार में आक्सोरिच जोन का विकास कार्य (नेशनल क्लीन एयर प्रोग्राम मद)	160.95	121000/-	6 माह	3000/-	वर्ग सी एवं प्रवर श्रेणी	24.09.2024 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, जी.एस.टी. पंजीयन प्रमाण पत्र एवं अमानत राशि के FDR/TDR की प्रति ऑनलाईन अपलोड करना अनिवार्य होगा, प्रशिक्षित यंत्री नियुक्त करने संबंधी प्रमाण पत्र, कर्मचारी भविष्य निधि रायपुर से पंजीकरण का कोड, निविदा प्रतिभागी शुल्क का डिमांड ड्राफ्ट एवं धरोहर राशि FDR/TDR, शपथपत्र का स्केन कापी ऑन लाईन सिस्टम पर अपलोड करना अनिवार्य होगा।
 - अमानत राशि का वैध FDR/TDR, निविदा प्रतिभागी शुल्क का 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 कोसावाड़ी 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 पश्चात 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 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.ग. भवन और अन्य सन्निर्माण कर्मकार (नियोजन एवं सेवा शर्तों का विनियमन) अधिनियम 1996 एवं तदंतर्गत निर्धारित नियमों के तहत पंजीयन कराना आवश्यक होगा तथा निर्माण लागत का 1 प्रतिशत उपकर के रूप में प्रत्येक देयक से कटौती की जावेगी।
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।

कार्यपालन 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		30 08 2024	12.00	30 08 2024	12.00	Release Tender
2		Bid Submission	30 08 2024	12.00	23 09 2024	17.30	
3		Physical Document Submission	30 08 2024	12.00	24 09 2024	15.00	
4	Tender Open		24 09 2024	16.00	--	--	


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

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

DETAILED ESTIMATE

Name of Work : BOUNDARY WALL

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	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).								
			1	170.00	165.00		28050.00			
						Total	28050.00	sqm	7.20	201960.00
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	In all types of soils.								
		-COL.	250	1.80	1.80	1.80	1458.00			
		-Exponson joint col	13	1.80	1.80	1.50	63.18			
		-WALL	1	750.00	0.50	0.50	187.50			
						Total	1708.68	cum	185.00	316105.80
3	1.3	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material after cutting in approved sizes and disposal of unserviceable material.								
	3.1	Beyond 30 cm girth upto								

QTY UNIT RATE AMOUNT

and including all on job

100.00

Total 100.00 sum 100.00 10000.00

Filling from available excavated soil (excluding rock) in trenches, joints, under of foundation etc. in layers not exceeding 1200 mm depth consolidating each deposited layer by ramming and watering with a hose upto 50 lit and 125 upto 1.5 lit

100.00

Total 100.00 sum 100.00 10000.00

Providing and filling in joints with sand (number 10) and hard maximum under floor in layers not exceeding 1200 mm depth consolidating each deposited layer by ramming and watering including dressing etc complete

200	1.00	1.00	0.50	100.00
10	1.00	1.00	0.50	4.21
1	750.00	0.50	0.50	37.50

Total 122.71 sum 371.50 46625.41

Dredging and loading from work including cutting, shattering, strutting, rugging, covering, hauling etc complete and including its removal at all levels etc

Foundations, footings, bases of columns, joints, beams, sumps and in any shape and size and all type of wall below ground level

20000	1.00	1.00	1.00	20000.00
200	1.00	1.00	1.00	200.00
1	750.00	0.50	0.50	750.00

Sl	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
						Total	1075.00	sqm	139.00	149425.00
	1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		-BACK SIDE COL.	180	1.00		1.50	270.00			
		-FRONT	70	1.00		2.30	161.00			
		-UPPER COL. BACK SIDE	180	1.00		0.60	108.00			
						Total	539.00	sqm	297.00	160083.00
	1.8	Beams, lintels, cantilevers & walls								
		-UPPER BEAM	2	540.00		0.20	216.00			
						Total	216.00	sqm	202.00	43632.00
7	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
			250	1.80	1.80	0.15	121.50			
			13	1.80	1.80	0.15	6.31			
			1	750.00	0.50	0.13	46.87			
						Total	174.68	cum	2970.00	518799.60
8	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		-F1	263	1.75	1.75	0.30	241.63			
		-F2	263	1.50	1.50	0.30	177.52			
		-COL. B.P.L.	263	0.20	0.30	0.70	11.04			
		-P.B.	1	750.00	0.20	0.30	45.00			
		-BACK SIDE COL	180	0.20	0.30	1.50	16.20			
		-FRONT COL.	70	0.20	0.30	2.30	9.66			
		-UPPER COL.	180	0.20	0.30	0.60	6.48			

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
		-L.B.	1	540.00	0.20	0.20	21.60				
							Total	529.13	cum	4163.00	2202768.19
9	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	12.1	Thermo-Mechanically treated bars FE 415									
			529.13	62.50			33070.62				
							Total	33070.62	kg	54.50	1802348.79
10	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)									
		-B.P.L.	1	750.00	0.20	0.40	60.00				
		-WALL BACK SIDE	1	540.00	0.20	1.50	162.00				
		-FRONT SIDE WALL	1	210.00	0.20	1.20	50.40				
		Deduction--COL	180	0.20	0.30	1.50	-16.20				
		Deduction--	70	0.20	0.30	1.10	-4.62				
							Total	251.58	cum	3350.00	842793.00
11	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:									
							191.16				
							Total	191.16	cum	121.00	23130.36
12	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									

CSI	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		priming of red oxide zinc chromate primer.								
			180	45.00			8100.00			
			70	50.00			3500.00			
						Total	11600.00	kg	67.50	783000.00
13	11.2	Providing and making 12mm thick cement plaster of mix:								
	2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		-BACK SIDE	1	540.00		2.00	1080.00			
		-COL.	180	1.00		0.60	108.00			
		-FRONT SIDE WALL	1	210.00		1.50	315.00			
			70	1.00		1.10	77.00			
						Total	1580.00	sqm	96.50	152470.00
14	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
			1	540.00		2.00	1080.00			
			1	210.00		1.50	315.00			
						Total	1395.00	sqm	113.00	157635.00
15	14.6	White washing with whiting to give an even shade.								
	6.1	On new work (Three or more coats)								
		-12MM PLASTER					1580.00			
		-15 MM PLASTER					1395.00			
						Total	2975.00	sqm	9.00	26775.00
16	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.								
	14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)								
							2975.00			
						Total	2975.00	sqm	41.00	121975.00
17	14.21	Applying priming coat on steel work with red oxide zinc chromate primer.								
			1.5	540.00	0.60		486.00			
			1.5	210.00	1.10		346.50			
						Total	832.50	sqm	17.50	14568.75
18	14.22	Painting on new work (two								

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

DETAILED ESTIMATE

Name of Work : GAURD ROOM PODIBAHAR

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	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.								
	1.1	In all types of soils.								
			4	1.50	1.50	1.50	13.50			
			4	3.00	0.40	0.40	1.92			
						Total	15.42	cum	185.00	2852.70
2	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.								
							8.83			
						Total	8.83	cum	65.00	573.95
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.								
	1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
			4	1.50	1.50	0.15	1.35			


SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		-WALL	4	3.00	0.40	0.10	0.48			
		-FLOORING	1	3.00	3.00	0.10	0.90			
		-STAIR	1	1.50	1.00	0.10	0.15			
			4	3.40	0.60	0.10	0.81			
						Total	3.69	cum	2970.00	10959.30
1.5		1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		-linth protection	4	3.40	0.60	0.15	1.22			
		-holler	4	3.40	0.15	0.15	0.30			
						Total	1.52	cum	4073.00	6190.96
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		-F1	4	1.50	1.50	0.30	2.70			
		-F2	4	1.20	1.20	0.30	1.72			
		-COL. B.P.L.	4	0.23	0.30	0.70	0.19			
		-P.B.	4	3.00	0.20	0.30	0.72			
		-COL	4	0.20	0.30	2.80	0.67			
		-L.B.	4	3.00	0.20	0.20	0.48			
		-S.B.	4	3.00	0.20	0.30	0.72			
		-SLAB	1	4.00	4.00	0.13	2.08			
		-CHHAJJA	1	3.40	0.60	0.10	0.20			
			1	2.00	0.60	0.10	0.12			
						Total	9.60	cum	4163.00	39964.80
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	12.1	Thermo-Mechanically treated bars FE 415								
			9.6	80.00			768.00			
						Total	768.00	kg	54.50	41856.00

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
	1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.									
		-F2	4x4	1.20		0.30	5.76				
		-COL. B.P.L.	4	1.00		0.70	2.80				
		-P.B.	4x2	3.00		0.30	7.20				
							Total	15.76	sqm	139.00	2190.64
	1.5	Columns, Pillars, Piers and likes- rectangular or square in shape									
			4	1.00		2.80	11.20				
							Total	11.20	sqm	297.00	3326.40
	1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)									
		-SLAB	1	4.00	4.00		16.00				
							Total	16.00	sqm	235.00	3760.00
	1.8	Beams, lintels, cantilevers & walls									
		L.B.	4x2	3.00		0.20	4.80				
		-S.B.	4x2	3.00		0.30	7.20				
							Total	12.00	sqm	202.00	2424.00
	1.13	Weather shade, chhajja, Cornices and mouldings									
			1	3.40	0.70		2.38				
			1	2.00	0.70		1.40				
							Total	3.78	sqm	294.00	1111.32
7	7.5	Brick work with modular fly-ash lime bricks (Fa.L.G Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)	4	3.00	0.20	2.80	6.72				

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	-F2	4x4	1.20		0.30	5.76			
	-COL. B.P.L.	4	1.00		0.70	2.80			
	-P.B.	4x2	3.00		0.30	7.20			
					Total	15.76	sqm	139.00	2190.64
1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		4	1.00		2.80	11.20			
					Total	11.20	sqm	297.00	3326.40
1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	-SLAB	1	4.00	4.00		16.00			
					Total	16.00	sqm	235.00	3760.00
1.8	Beams, lintels, cantilevers & walls								
	L.B.	4x2	3.00		0.20	4.80			
	-S.B.	4x2	3.00		0.30	7.20			
					Total	12.00	sqm	202.00	2424.00
1.13	Weather shade, chhajja, Cornices and mouldings								
		1	3.40	0.70		2.38			
		1	2.00	0.70		1.40			
					Total	3.78	sqm	294.00	1111.32
7 7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)	4	3.00	0.20	2.80	6.72			

N	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
12	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.									
			2	30.00			60.00				
							Total	60.00	kg	67.50	4050.00
13	12.13	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.									
	13.1	Size 600x600mm									
			1	3.20	3.20		10.24				
			1	1.50	1.00		1.50				
							Total	11.74	sqm	1151.00	13512.74
14	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.									
		-6MM Plaster					17.68				
		-12mm plaster					51.69				
		-15mm plaster					43.68				
							Total	113.05	sqm	94.50	10683.23
15	14.10	Wall painting with acrylic									

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	premium emulsion (plastic) paint of required shade to give an even shade.								
10.1	On new work (two or more coats)								
						17.68			
						43.68			
						Total	61.36	sqm	44.50 2730.52
16.14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with								
15.1	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)								
						51.69			
						Total	51.69	sqm	56.00 2894.64
17.14.22	Painting on new work (two or more coats) to give an even shade with								
22.1	Satin synthetic enamel paint								
	-d	2	1.00		2.10	4.20			
	-w	2x2	1.50		1.20	7.20			
	-grill	15	1.50		1.20	2.70			
					Total	14.10	sqm	55.00	775.50
18.14.21	Applying priming coat on steel work with red oxide zinc chromate primer.								
						14.10			
						Total	14.10	sqm	17.50 246.75
As per Estimate Amount Rs.									192742.54
Say Rs.									


Sub Engineer
Nagar Palik Nigam,
Korba


Asst. Engineer
Nagar Palik Nigam,
Korba

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

DETAILED ESTIMATE

Name of Work : LAND SCAPING AND PATHWAY PODIBAHAR

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	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.								
	1.1	In all types of soils.								
		Around boundry wall	2	750.00	0.40	0.40	240.00			
		-in mid	2	165.00	0.40	0.40	52.80			
			2	170.00	0.40	0.40	54.40			
		-circle 10mtr dia	2	32.00	0.40	0.40	10.24			
						Total	357.44	cum	185.00	66126.40
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.								
		-WALL	2	750.00	0.40	0.10	60.00			
			2	165.00	0.40	0.10	13.20			
			2	170.00	0.40	0.10	13.60			
		-circle=3.14x 10=31.4	2	32.00	0.40	0.10	2.56			
		-PAWER	1	750.00	2.50	0.05	93.75			
			1	165.00	2.50	0.05	20.62			
			1	170.00	2.50	0.05	21.25			
		-circle	1	32.00	2.50	0.05	4.00			
						Total	228.98	cum	371.00	84951.58
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		works upto plinth level excluding cost of form work.								
1.3		1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		-for wall	2	750.00	0.30	0.10	45.00			
			2	170.00	0.30	0.10	10.20			
			2	165.00	0.30	0.10	9.90			
			2	32.00	0.30	0.10	1.92			
		-for paver	1	750.00	2.50	0.10	187.50			
			1	165.00	2.50	0.10	41.25			
			1	32.00	2.50	0.10	8.00			
							Total	303.77	cum	2970.00
1.5		1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								902196.90
			2	750.00	0.30	0.08	33.75			
			2	170.00	0.30	0.08	7.65			
			2	165.00	0.30	0.08	7.42			
			2	32.00	0.30	0.08	1.44			
							Total	50.26	cum	4073.00
4	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								204708.98
	5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
			2	750.00	0.20	0.40	120.00			
			2	170.00	0.20	0.40	27.20			
			2	165.00	0.20	0.40	26.40			
			2	32.00	0.20	0.40	5.12			
		-for lands caping	2	100.00	0.20	0.30	12.00			
							Total	190.72	cum	3263.00
5	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								622319.36
	3.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
			2	750.00		0.50	750.00				
			2	170.00		0.50	170.00				
			2	165.00		0.50	165.00				
			2	32.00		0.50	32.00				
							Total	1117.00	sqm	107.00	119519.00
6	12.36	Chequered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.									
	36.1	Light shade using white cement									
			1	170.00	2.50		425.00				
			1	165.00	2.50		412.50				
			1	32.00	2.50		80.00				
							Total	917.50	sqm	799.00	733082.50
7	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									
	65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks									
			1	750.00	2.50		1875.00				
							Total	1875.00	sqm	632.00	1185000.00
8	14.6	White washing with whitening to give an even shade.									
	6.1	On new work (Three or more coats)									
			2	750.00		0.50	750.00				

ITEM DESCRIPTION		N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		2	170.00		0.50	170.00			
		2	165.00		0.50	165.00			
		2	32.00		0.50	32.00			
					Total	1117.00	sqm	9.00	10053.00
9	14.14	Finishing walls with water proofing cement paint of required shade to give an even shade.							
	14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)							
						1117.00			
					Total	1117.00	sqm	41.00	45797.00
10	22.2	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).							
		300	1.00	1.00	0.60	180.00			
					Total	180.00	cum	201.00	36180.00
11	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment)							
		300	1.00	1.00	0.20	60.00			
					Total	60.00	cum	236.00	14160.00
12	22.25	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:							
	25.1	Hedges like Alife, Dorenta, Tikoma etc							
		200				200.00	each	14.00	2800.00

REF	ITEM DESCRIPTION	N	L	B	HD	QTY	UNIT	RATE	AMOUNT
252	Furn like Arica, China etc (3 year old)	100				100.00	each	125.00	12500.00

As per Estimate Amount Rs. 4039394.72
Say Rs.



S. Engineer
Nagar Palik Nigam,
Korba



Asst. Engineer
Nagar Palik Nigam,
Korba

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

DETAILED ESTIMATE

Name of Work : MAIN GATE

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	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.								
	1.1	In all types of soils.								
		-COL	3	1.80	1.80	1.80	17.49			
		-WALL	1	6.00	0.50	0.50	1.50			
			1	30.00	15.00	0.20	90.00			
						Total	108.99	cum	185.00	20163.15
2	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.								
							108.99			
						Total	108.99	cum	65.00	7084.35
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.								
			3	1.80	1.80	0.10	0.97			
			1	5.00	0.50	0.10	0.25			
		-FOR PAVER	1	30.00	15.00	0.05	22.50			
						Total	23.72	cum	371.00	8800.12

ITEM DESCRIPTION		N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	level excluding cost of form work.								
21	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	-F1	3	1.80	1.80	0.40	3.68			
	-F2	3	1.80	1.80	0.40	3.68			
	-COL. B.PL.	3	0.60	0.60	1.00	1.08			
	-P.B.	1	5.00	0.40	0.40	0.80			
	-COL	3	0.60	0.60	2.50	2.70			
	-SLAB	1	15.00	1.20	0.20	3.60			
						Total	15.94	cum	4163.00
7	312 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:								
	121 Thermo-Mechanically treated bars FE 415								
		15.94	75.00			1195.50			
						Total	1195.50	kg	54.50
8	92 Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.								
						800.00			
						Total	800.00	Kg	66.00
9	913 Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.								

ITEM DESCRIPTION		N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
FOR TOP OF GATE						100.00				
						Total	100.00	kg	75.00	7500.00
10	11.2	Providing and making 12mm thick cement plaster of mix:								
	2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		3X4	0.60			2.50	18.00			
						Total	18.00	sqm	96.50	1737.00
11	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								
	65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks								
		-IN FRONT OF GATE								
		1	30.00	15.00			450.00			
						Total	450.00	sqm	632.00	284400.00
12	14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.								
		3X4	0.60			2.50	18.00			
						Total	18.00	sqm	23.00	414.00
13	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.								
							18.00			
						Total	18.00	sqm	94.50	1701.00
14	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required								

ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
15.1 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)								
					18.00			
				Total	18.00	sqm	56.00	1008.00
15 14.21 Applying priming coat on steel work with red oxide zinc chromate primer.								
-GATE	1.5	5.00		2.10	15.75			
-NAME PLATE	2	8.00		0.60	9.60			
				Total	25.35	sqm	17.50	443.63
16 14.22 Painting on new work (two or more coats) to give an even shade with:								
22.1 Satin synthetic enamel paint								
					15.75			
					9.60			
				Total	25.35	sqm	55.00	1394.25

As per Estimate Amount Rs. 669857.03
Say Rs.


Sub Engineer
Nagar Palik Nigam,
Korba


Astit Engineer
Nagar Palik Nigam,
Korba

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

DETAILED ESTIMATE

Name of Work : BORE WELL WORK IN PODIBAHAR
 As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable 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.									
	1.1	All types of soil									
	.1.3	150 mm dia.									
			1	30.00					30.00		
							Total	30.00	metre	339.00	10170.00
	1.2	Rocky strata including Boulders.									
	.2.2	125 mm dia.									
			1	30.00					30.00		
							Total	30.00	metre	349.00	10470.00
2	21.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as									

ITEM DESCRIPTION		N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	per direction of Engineer -in-charge.								
3.3	150 mm nominal size dia.								
		1	30.00			30.00			
3	21.4					Total	30.00 metre	540.00	16200.00
	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) slotted pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.								
4.3	150 mm nominal size dia.								
		1	10.00			10.00			
4	21.10					Total	10.00 metre	546.00	5460.00
	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" V" notch method or any other approved method, measuring static level & draw down etc. 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 &								

ITEM DESCRIPTION		N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	accessories etc., all as per requirement and direction of Engineer-in-charge.								
		1	48.00			48.00			
					Total	48.00	Hour	654.00	31392.00
5	21.12 Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.								
	12.3 150 mm clamp.								
		1				1.00			
					Total	1.00	each	1055.00	1055.00
6	21.17 Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well 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)								
		5				5.00			
					Total	5.00	point	1502.00	7510.00
7	21.13 Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part I).								
	13.3 150 mm dia								
						1.00			
					Total	1.00	each	171.00	171.00
8	23.3 (PWD ELECTRICAL-01-06-2020-								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		switches 1 set b) 5/7.5 IIP 3 phase DOL starter with over load and no volt relay 1 No c) 32 A "C" curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.								
							1.00			
						Total	1.00	Each	4152.00	4152.00
11	23.14	(PWD ELECTRICAL-01-06-2020- laying and fixing following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification								
	14.4	3x6.0 sqmm					150.00			
						Total	150.00	Metre	135.00	20250.00
12	23.15	(PWD ELECTRICAL-01-06-2020- and making water proof joint with heat shrinkable joint kit including copper ferrules for following size of 3 core submersible copper conductor cable of 1.1 KV grade as per specification.								
	15.4	3x6.0 sqmm					5.00	Each	450.00	2250.00

As per Estimate Amount Rs. 150794.00

For 2 Nos Say Rs. = 301588



Sub Engineer
Nagar Palik Nigam,
Korba



Asst. Engineer
Nagar Palik Nigam,
Korba

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

DETAILED ESTIMATE

Name of Work : ELECTRIFICATION PODIBAHAR

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD ELECTRICAL-01-06-2020]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
1	196	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)								
	62	4 metre high, dia 130mm at bottom and 75mm at top, base plate size 200x200x12mm, foundation bolts 450mm long					12.00	Each	5942.00	71304.00
2	199	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								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		excavated material, ramming and making the surface good etc. as per specification.								
	2.1	63 mm outer dia					2200.00	Metre	124.00	272800.00
7	15.12	Supplying and laying following sizes one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade direct in ground including sand cushioning, protective covering etc as per specification.								
	12.2	4 x 1.5 sq. mm					200.00	Metre	278.00	55600.00
8	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. .								
	23.25	4 X 25 sq. mm (25 mm)					4.00	Each	104.00	416.00
9	12.3	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)					2.00	Set	6209.00	12418.00
10	12.12	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification.					20.00	Metre	36.00	720.00
11	7.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of								

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	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 complete as per specification.								
19.1	Upto 300 mm deep					2.00	sqm	6818.00	13636.00
12	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.								
14	3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA					10.00	Each	3734.00	37340.00
13	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.								
11.2	6 amps to 32 amps					10.00	Each	148.00	1480.00
14	9.16 Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.								
16.5	63 amps					10.00	Each	1316.00	13160.00
15	6.28 Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with								

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	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 = 120 lumens /watt.								
28 14	250 watt					16.00	Each	15846.00	253536.00
16 6.29	Supplying, installation, testing and commissioning 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 0.9. LED chip efficacy ratio = 120 lumens /watt.								
29 7	150 watt					8.00	Each	9347.00	74776.00
17 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.								
18 2	0-100 amps					10.00	Each	372.00	3720.00
18 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.								
20 1	Analog type					10.00	Each	397.00	3970.00
19 10 21	Providing and fixing penal								

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

DETAILED ESTIMATE

Name of Work : ELECTRIFICATION PODIBAHAR

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD ELECTRICAL-01-06-2020]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	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)								
	6.2	4 metre high, dia 130mm at bottom and 75mm at top, base plate size 200x200x12mm, foundation bolts 450mm long					12.00	Each	5942.00	71304.00
2	19.9	Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffner of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket								

SN	EF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		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.								
9.7		Double Over Hang 1.50 metre Long					12.00	Each	1869.00	22428.00
3	19.11	Erection of GI octagonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification.								
	11.2	4 metre high					12.00	Each	604.00	7248.00
4	32.8	Supplying following sizes FRLS PVC insulated , PVC sheathed, steel armoured, copper conductor controle cable of 1.1 KV grade								
	8.2	4 x 1.5 sq. mm					1600.00			
Total							1600.00	Metre	70.00	112000.00
							4.00	cum	5219.00	20876.00
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.								
6	14.2	Supplying and laying HDPE pipe of 4kg/cum 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								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		excavated material, ramming and making the surface good etc. as per specification.								
	21	63 mm outer dia								
7	15 12	Supplying and laying following sizes one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade direct in ground including sand cushioning, protective covering etc as per specification.					2200.00	Metre	124.00	272800.00
	12.2	4 x 1.5 sq mm					200.00	Metre	278.00	55600.00
8	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.								
	13 25	4 X 25 sq mm (25 mm)					4.00	Each	104.00	416.00
9	12 3	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)					2.00	Set	6209.00	12418.00
10	12 12	Supplying and laying 6 SWG G I wire at 0.50 metre below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as per specification.					20.00	Metre	36.00	720.00
11	7 19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of								

SN ITEM DESCRIPTION N L B HD QTY UNIT RATE AMOUNT

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 complete as per specification.

10	1	Upto 300 mm deep				2.00	sqm	6818.00	13636.00
12	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				10.00	Each	3734.00	37340.00
14		3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA							
13	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				10.00	Each	148.00	1480.00
	11.2	6 amps to 32 amps							
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				10.00	Each	1316.00	13160.00
	16.5	63 amps							
15	6.20	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with							

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
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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.F. should be greater than 0.9. LED chip efficacy ratio = 120 lumens /watt.

16	6 29	Supplying, installation, testing and commissioning 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 0.9. LED chip efficacy ratio = 120 lumens /watt.					16 00	Each	15846 00	253536 00
	29 7	150 watt					8 00	Each	9347 00	74776 00
17	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.								
	18 2	0-100 amps					10 00	Each	372 00	3720 00
18	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.								
	20 1	Analog type					10 00	Each	397 00	3970 00
19	10 21	Providing and fixing penal								

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
		mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.									
	21.1	For voltmeter					5.00	Each	189.00	945.00	
	21.2	For ammeter					5.00	Each	207.00	1035.00	
20	1.1	Wiring for light/ fan/ exhaust fan / call bell point with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp piano type switch, phenolic laminated sheet, suitable size M.S. box etc as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)									
	1.1	Short Point -FOR GAURD ROOM					2.00				
							Total	2.00	Point	240.00	480.00
	1.2	Medium Point					3.00	Point	376.00	1128.00	
21	4.1	Supplying and fixing of metal box of following sizes (nominal size) in recess with suitable size phenolic laminated sheet cover in front including painting etc as per specification.									
	1.10	250 mm X 300 mm X 60 mm deep					1.00				
							Total	1.00	Each	232.00	232.00
22	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.									
	4.1	5/6 amps one way switch					7.00	Each	69.00	483.00	

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		Ceiling rose 3 pin 5 amp								
	4.22	Batten/ angle holder					6.00	Each	40.00	240.00
	4.4	15/16 amp switch					3.00	Each	41.00	123.00
	4.5	3 pin 5/6 amp socket outlet					1.00	Each	89.00	89.00
	4.9	Fan regulator (two module size) electronic stepped type moving all rounds					2.00	Each	96.00	192.00
							1.00	Each	223.00	223.00
23	6.2	Supplying, installation, testing and commissioning of premium quality Decorative ceiling fan having modern designer blades, good airtthrow and with atleast two colour rendering effect along with unique smooth flowing canopies and down rod sleeve covering, wider blades at tips giving conical air throw including remote control for following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated , copper conductor, single core wire, earthing etc. complete as per specification. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments					1.00	Each	2092.00	2092.00
	2.2	1200 mm sweep					1.00	Each	1334.00	1334.00
24	6.7	Supplying, installation, testing and commissioning of 250/ 300 mm sweep 1400 rpm medium duty (continuous running) exhaust fan in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9								
25	6.19	Supplying, installation, testing and commissioning of following LED tube light fitting including batten with								

S. NO.	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio = 100 lumens /watt.								
	19.4	36 watt {4 feet}					2.00	Each	718.00	1436.00
26	6.20	Supplying, fixing, testing and commissioning of following LED lamps {Inverter Type: with builtin battery backup} with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio = 100 lumens /watt.								
							3.00	Each	282.00	846.00
	20.1	9 Watt								
27	15.12	Supplying and laying following sizes one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade direct in ground including sand cushioning, protective covering etc as per specification.								
	12.1	2 x 1.5 sq. mm	2	50.00			100.00			
Total							100.00	Metre	254.00	25400.00
As per Estimate Amount Rs. 1013706.00										
Say Rs.										


Sub Engineer
Nagar Palik Nigam,
Korba


Asst. Engineer
Nagar Palik Nigam,
Korba

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

DETAILED ESTIMATE

Name of Work : PAGODA/R.C.C. SHED

As per SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING-01.01.2015]

SN	REF	ITEM DESCRIPTION	N	L	B	H/D	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.								
	1.1	In all types of soils.								
		-CHABUTRA	4	3.00	0.40	0.40	1.92			
		-PGODA	4	1.50	1.50	1.50	13.50			
		-WALL	1	10.00	0.40	0.40	1.60			
		-SEATING	1	4.00	1.00	0.40	1.60			
							Total	18.62	cum	185.00
										3444.70
2	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.								
							17.02			
							Total	17.02	cum	65.00
										1106.30
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.								

REF ITEM DESCRIPTION

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		4	3.00	0.40	0.10	0.48			
		4	1.50	1.50	0.10	0.90			
		1	10.00	0.40	0.10	0.40			
		1	5.00	1.00	0.10	0.50			
4	1.19 Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	Total				2.28	cum	371.00	845.88
		1	3.00	3.00	0.90	8.10			
		1	3.00	3.00	0.90	8.10			
		1	4.00	0.30	0.90	1.08			
		Total				17.28	cum	242.00	4181.76
5	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	-F2	4X4	1.20		0.30	5.76			
	-F3	4X4	0.80		0.30	3.84			
	-COL.B.P.L.	4	1.60		0.80	5.12			
	-P.B.	2	10.00		0.30	6.00			
		Total				20.72	sqm	139.00	2880.08
	1.6 Columns, beams & walls-circular or any other geometrical shape other than square and rectangular in all sizes								
	-2X3.14X.15X.15X2.5=.35	4	0.35			1.40			
		Total				1.40	sqm	356.00	498.40
	1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		1	4.00	4.00		16.00			
1.8	Beams, lintels, cantilevers & walls				Total	16.00	sqm	235.00	3760.00
		1X2	10.00		0.30	6.00			
1.10	Folded plates slabs				Total	6.00	sqm	202.00	1212.00
						16.00			
6	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.				Total	16.00	sqm	194.00	3104.00
1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		4	3.00	0.40	0.10	0.48			
		4	1.50	1.50	0.10	0.90			
		1	3.00	3.00	0.10	0.90			
		2	5.00	1.00	0.10	1.00			
					Total	3.28	cum	2970.00	9741.60
7	3.2 Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
	-F1	4	1.50	1.50	0.20	1.80			
	-F2	4	1.20	1.20	0.30	1.72			
	-F3	4	0.80	0.80	0.30	0.76			
	-COL.B.P.L.	4	0.40	0.40	0.80	0.51			
	-P.B.	1	10.00	0.30	0.30	0.90			
	-VOLUME=3.14X.15X.15X	4	0.17			0.68			
	-S.B	1	10.00	0.30	0.30	0.90			

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT	
	-SLAB	1	4.00	4.00	0.13	2.00				
8	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:					Total	9.27	cum	4163.00	38591.01
	12.1 Thermo-Mechanically treated bars FE 415									
		9.27	100.00				927.00			
						Total	927.00	kg	54.50	50521.50
9	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	5.3 Cement Mortar 1:5 (1 cement : 5 coarse sand)									
		4	3.00	0.30	0.90	3.24				
		1	10.00	0.30	0.20	0.60				
	-STAIR	2	1.50	1.20	0.20	0.72				
		2	1.50	0.90	0.20	0.54				
		2	1.50	0.60	0.20	0.36				
		2	1.50	0.30	0.20	0.18				
		2	5.00	0.20	1.20	2.40				
		2	0.90	0.20	1.20	0.43				
						Total	8.47	cum	3350.00	28374.50
10	11.1 Providing and making 6mm thick cement plaster of mix:									
	1.2 In Cement mortar 1:4 (1 cement : 4 fine sand)									
		1	4.00	4.00		16.00				
						Total	16.00	sqm	87.00	1392.00
11	11.2 Providing and making 12mm thick cement plaster of mix:									
	2.3 In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		4	3.00		0.90	10.80				

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
		1	10.00		1.00	10.00			
		4	1.50	0.50		3.00			
					Total	23.80	sqm	96.50	2296.70
12	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:							
	3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)							
		1	10.00		0.60	6.00			
		2	5.00		0.90	9.00			
		2	0.90		0.90	1.62			
					Total	16.62	sqm	113.00	1878.06
13	12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.							
	7.1	Size upto 200x300mm							
		1	10.00		0.60	6.00			
		1	10.00		1.00	10.00			
					Total	16.00	sqm	587.00	9392.00
14	12.45	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)							
	45.2	Granite stone black							
		4	3.00	0.30		3.60			
		1	10.00	0.30		3.00			
		1	5.00	0.90		4.50			

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
15 12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).				Total	11.10	sqm	2646.00	29370.60
46.1	Granite stone grey/pink -STAIR	2	1.50	2.00		6.00			
					Total	6.00	sqm	1869.00	11214.00
16 12.44	Extra for nosing in Granite stone for treads.								
		2X4	3.00			24.00			
		1X2	10.00			20.00			
		2X4	1.50			12.00			
		2X2	1.50			6.00			
		2	5.00			10.00			
		2	1.00			2.00			
					Total	74.00	metre	126.00	9324.00
17 14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 liters/10 sqm) complete.								
		4	3.00		0.90	10.80			
		4	0.35			1.40			
		2	4.00	4.00		32.00			
		1	12.00		0.90	10.80			
					Total	55.00	sqm	23.00	1265.00
18 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								

REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
	smooth and even.					44.20			
		1	12.00		0.90	10.80			
					Total	55.00	sqm	94.50	5197.50
19 14 15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
15.1	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)								
						44.20			
	Deduction--					-16.00			
					Total	28.20	sqm	56.00	1579.20
20 14.17	Painting exterior surface with TEXTURED exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
17.1	On new work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm								
		1	4.00	4.00		16.00			
		1	12.00		0.90	10.80			
					Total	26.80	sqm	140.00	3752.00

As per Estimate Amount Rs. 224922.79
Say Rs.

For S.M.S = 11,24,610=00


Sub Engineer
Nagar Palik Nigam,
Korba


Asst. Engineer
Nagar Palik Nigam,
Korba

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

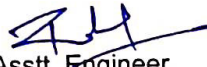
DETAILED ESTIMATE


Sub. Supply & Fixing Open Gym Equipement and Playing Equipement at Oxyrich zone pondi bahar at ward no. 29

S.No	Item Description	Qty.	Unit
1	Slide Ladder (Preschool kit)	1	Each
	<u>Specifications:-</u>		
	Pipe "Structure - 35mm and 25mm		
	Slid - G.I. Sheet , 20 gauge.		
	Total Height - 9 ft to 10 ft.		
	Area - 4 Mts. X 4 mts.		
2	Jungle Rubber Play Zone	1	Each
	<u>Specifications:-</u>		
	Slide - Pipe - 30mm		
	Upper Pipe - 35 mm		
	Seat - Wooden Rubber		
	Sheet, Metalic		
	Chain - 3mm		
3	Coach Cum Glider	1	Each
	<u>Specifications:-</u>		
	Slide Structure - 35mm		
	upper Stcuture - 50 mm		
	Seat - Metalic		
	Capacity - 6 Children.		
4	Threepie Twister	2	Each
	<u>Specifications:-</u>		
	Central Pipe - 50mm		
	Railing Pipe - 25mm		
	Guage of Sheet - 16		
	Diameter - 170 Mtr.		
5	Cross Trainers	1	Each
	<u>Specifications:-</u>		
	Structure- 25 mm N.B pipe.		
	Slide length- 4-5 ft.		
6	Spin Bike	1	Each
	<u>Specifications:-</u>		
	Slide - Fibre		
	Stairs - 35mm		
	Height - 3ft.		
7	Smith Machine	1	Each
	<u>Specifications:-</u>		
	Side pipe- 35 mm.		
	Upper pipe- 50 mm.		
	Seat-Wooden,Rubber sheet,Metallic.		

	Item Description	Qty.	Unit	Rate	Amount
	Chain 3 mm.				
	Sufing Board	2	Each		
	Specifications:-				
	Structure of pipe- 35 mm.				
	Handle pipe- 25 mm.				
	Height- 0.5 m.				
	Seat- Fibre.				
	Capacity- 2 Children.				
10	sitting benches	9	Each		
	TOTAL				


 Sub Engineer
 Municipal Corporation
 Korba (C.G.)


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


 Executive Engineer
 Municipal Corporation
 Korba (C.G.)