

कार्यालय, नगर पालिक निगम, कोरबा (छ.ग.)

सिस्टम टेन्डर नं 84534

प्रथम ई-निविदा आमंत्रण सूचना

फा.क./निर्माण /2021/PTI-28/

कोरबा, दिनांक 01/10/2021


लोक निर्माण विभाग से एकीकृत पंजीयन प्रणाली अंतर्गत सक्षम श्रेणी में पंजीकृत ठेकेदारों से निम्नलिखित कार्यों हेतु प्रमुख अभियन्ता लोक निर्माण विभाग, रायपुर द्वारा (भवन) दिनांक 01.01.2015, (विद्युत) दिनांक 01.06.2020, लो.स्वा.यां यू.एस.ओ.आर दिनांक 01.06.2020 तथा नॉन एस.ओ.आर. से प्रभावशील दर पर (निविदा खुलने के दिनांक तक समस्त संशोधनों के साथ) कम अधिक या समान दरों पर तथा शेड्यूल अनुसार आयटम दरो पर निम्नलिखित निर्माण कार्य हेतु ऑनलाईन ई-निविदा आमंत्रित की जाती है :-

क्र.	कार्य का नाम	प्राक्कलन राशि लाख में	धरोहर राशि रु में	कार्यावधि	ठेकेदार का वर्ग	निविदा खुलने की अंतिम तिथि
1	नगर पालिक निगम कोरबा क्षेत्रांतर्गत अशोक वाटिका का उन्नयन एवं विकास कार्य	953.77	476000 / -	12 माह	वर्ग बी एवं प्रवर श्रेणी	23.10.2021 से

शर्तें:-


- जिन ठेकेदारों द्वारा नगर पालिक निगम (साडा) के किसी ठेके के कार्य में अनुबंध के अनुरूप कार्य न किया गया हो अथवा नगर पालिक निगम (साडा) के हित के विरुद्ध कार्य किया गया हो उन्हें निविदा भरने की पात्रता नहीं होगी।
- इच्छुक ठेकेदारों को उचित वर्ग में पंजीयन की प्रमाणित प्रतिलिपि यदि साझेदारी फर्म हो तो उसका प्रमाण पत्र (पाटर्नरशीप डीड) की सत्य प्रतिलिपि, उपलब्ध तकनीकी अमले की जानकारी, आयकर प्रमाण पत्र/पेन नम्बर, जी.एस.टी., बैंक सार्वेन्सी प्रमाण पत्र, पंजीयन प्रमाण पत्र एवं अमानत राशि तथा निविदा प्रपत्र के अनुसार अन्य सभी संबंधित आश्यक दस्तावेज की स्पष्ट स्कैन कॉपी ऑनलाईन अपलोड करना अनिवार्य होगा, प्रशिक्षित यंत्री एवं गार्डन संबंधित कार्यों हेतु प्रशिक्षित क्यूरेटर/सुपरवाइजर नियुक्त करने तथा उपलब्ध तकनीकी अमले की जानकारी संबंधी प्रमाण पत्र, कर्मचारी भविष्य निधि रायपुर से पंजीकरण का कोड एवं धरोहर राशि का स्पष्ट स्कैन कापी ऑन लाईन सिस्टम पर अपलोड करना अनिवार्य होगा।
- सम्पूर्ण किये गये कार्यों के लिए प्रत्येक चल देयकों में से 5 प्रतिशत सुरक्षा राशि 01 वर्ष के लिए एवं 5 प्रतिशत परफार्मेंस सिक्यूरिटी की गारंटी के रूप में से 03 वर्ष के लिए रोकी जावेगी।
- जिन निविदाकारों द्वारा कर्मचारी भविष्य निधि संगठन एवं कर्मचारी राज्य बीमा निगम, रायपुर से पंजीयन कराकर कोड प्राप्त कर लिया हो वे निविदाकार ही निविदा हेतु पात्र होंगे।
- 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 देना अनिवार्य होगा।
- 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।
- ठेकेदार को संबंधी सभी टेस्टिंग इन्स्ट्रूमेंट एवं लेबोरेट्री कार्य स्थल पर कार्यादेश के 15 दिवस के भीतर स्थापित करना अनिवार्य होगा तथा स्थापित कर अधोहस्तक्षरकर्ता को सूचित करना होगा।
- ईट से संबंधित निर्माण कार्यों में फ्लाइ ईश ब्रिक का उपयोग किया जाना अनिवार्य होगा।
- हार्तिकल्चर अंतर्गत किये जा रहे कार्यों यथा कार्पेट ग्रास तथा अन्य गार्डन संबंधी पेड़-पौधों का रख रखाव तथा कीट नाशक छिड़काव तथा अन्य संबंधी हार्तिकल्चर कार्य, कार्यपूर्णता दिनांक से 01 वर्ष तक स्वयं के व्यय से करना अनिवार्य होगा।
- सभी संबंधित सिविल कार्य यथा निर्मित भवनों का संधारण कार्य, स्टाम्प कांकीट कार्य, समस्त बिजली संबंधित कार्य, खेलकूद जिम संबंधी उपकरण, फाउंटन कार्य, एल.ई.डी.बोर्ड का कार्य, पंप-पानी पाईप लाईन संबंधी कार्य एवं अन्य कार्यों का संधारण 3 वर्ष तक करना अनिवार्य होगा।
- कार्य स्थल में अवरोधक आ रहे वृक्षों का सर्वे कर हटाने हेतु अनुमति संबंधी सभी कार्य निविदाकार को अपने स्वयं के व्यय से वन विभाग एवं जिला कलेक्टर कार्यालय से कार्यादेश जारी होने के 30 दिवस के भीतर लेना अनिवार्य होगा।
- प्रयुक्त लोहा का बिल एवं टेस्ट रिपोर्ट तथा प्रयुक्त सीमेंट का बिल संलग्न करना अनिवार्य होगा।
- निविदा दरों असामान्य कमी प्रतीत होने पर सफल निविदा दाता से अनुबंध के पूर्व एस.ओ.आर. एवं निविदा दर की अंतर की राशि के समतुल्य परफार्मेंस गारंटी के रूप में राष्ट्रीयकृत बैंक एफ.डी.आर., पोस्ट ऑफिस, टाईम डिपॉजिट अथवा एन.एस.सी. जो कि आयुक्त नगर पालिक निगम, कोरबा के नाम पर देय होगा जो मांग तिथि से 15 दिवस के भीतर जमा करना अनिवार्य होगा। उपरोक्त राशि समयावधि में जमा न करने की दशा में निविदा स्वमेव निरस्त मानी जावेगी।
- निविदाकार को कार्यादेश जारी होने के 15 दिवस के भीतर संपूर्ण कार्य स्थल का विस्तृत टी.एस./डी.जी.पी.एस. सर्वे कराकर सर्वे संबंधी डेटा एवं दस्तावेज कार्यालय में प्रस्तुत करना अनिवार्य होगा।

15. कार्य स्थल में अवरोधक आने वाले विद्युत पोलों का सर्वे कर हटाने हेतु अनुमति संबंधी सभी कार्य निविदाकार को अपने स्वयं के व्यय से जिला विद्युत विभाग से कार्यादेश जारी होने के 30 दिवस के भीतर करना होगा।
16. निविदा अहस्तांतरणीय होगा एवं सशर्त निविदाओं पर विचार नहीं किया जावेगा।
17. निविदा के संबंध में किसी प्रकार की विवाद होने की स्थिति में आयुक्त का निर्णय अंतिम एवं सर्वमान्य होगा।
18. निविदा स्वीकृत करने अथवा अस्वीकृत करने अथवा निरस्त करने का अधिकार नगर पालिक निगम के पास सुरक्षित रहेगा।
19. उपरोक्त निविदा सूचना की विस्तृत प्रति नगर पालिक निगम, कोरबा के साकेत भवन स्थित निर्माण शाखा से प्राप्त किये जा सकते हैं।


अधीक्षक अभियंता
नगर पालिक निगम
कोरबा (छत्तीसगढ़)


प्रतिलिपि -

1. प्रोग्रामर, संचालनालय, नगरीय प्रशासन एवं विकास विभाग, नया रायपुर (छ.ग.) को uad.cg.gov.in में अपलोड किये जाने हेतु प्रेषित।


अधीक्षक 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		30.09.21	17.30	01.10.21	10.30	Release Tender
2		Bid Submission	01.10.21	10.30	22.10.21	17.30	
3	Tender Open		23.10.21	10.30	-	--	


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

GENERAL ABSTRACT

FOR

PROPOSED DEVELOPMENT AND BEAUTIFICATION OF ASHOK VATIKA AT NAGAR NIGAM KORBA (C.G.)

S.No.	SUB HEAD
1	Stamp concrete pathway
2	Ticket counter (Near Entrance And Toy Train)
3	Gazebo (4 Nos.)
4	Open Yoga Area with Stage
5	Gym Area
6	Youth sports zone (Courts)
	Volleyball
	Basketball
	Bandminton
7	Garden landscaping & plantation (including hedges, lawn, flower beds, herbs, shrubs etc.)
	Herbal Garden
	Landscape Work
8	Laser Light Fountain
9	Children playing area (including development work and playing equipments)
10	Cafeteria
11	Bollard And Decorative Lights
12	Toilet block (4 Nos.)
13	Septic Tank With Soak Pit (3x2x2 M.) (4 Nos)
14	Mono Rail Toy Train (1000 M.)
15	Water body development work
16	Boating deck (lumpsum)
17	Signage (Way finding & Entrance Overhead LED Sign Board)
18	Electrification work Street Lighting
19	Pump house room
20	Borewell with pump (2 Nos.)
21	External Water supply Pipe Line
22	Guard room
23	Precast RCC Seating Benches & Twin Bin Dustbins
24	Boundary wall (1200 M.)
25	Fencing work (200 M.)
26	Entrance gate

"PATHWAY (STAMPED CONCRETE)"			
S.No.	PARTICULAR	QTY.	UNIT
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.		
		2659.86	CUM
	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.		
		886.62	CUM
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).		
		886.62	CUM
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).		
		886.62	CUM
5	12.58. 25mm thick un-polished Local RAJIM/ Red Flag stone slab flooring laid over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid over & jointed with grey cement slurry mixed with pigments to match the shade of the stone.		
	Stepping Stone	228.96	SQM

6	Stamp Concrete (Non SOR)		
	<p>Providing, applying and finishing the top surface of concrete with stamp concrete of approved colour and pattern, in accordance with manugactures specification of Bomanite/QC /Flex Stone or any other approval brand of colour Hardener @ of 2.7 kg/sqmt, i/c floating of colour hardner over concrete surface with different types of loaters; i/c application of release agent @ of 0.113 kg/sq mtr, stamping over the concrete surface with stamping tools, including cleaning of surface with water and cutting of finished concrete; i/c application of two coats of acrylic based sealer for finishing. Colour hardner and release agents shall be tested for abrasion resistance for a depth of wear, should not be more than 0.025 mm. Coverage of sealer coat could not be less than 7.53 sqmt per one litre coat; i/c cost of skilled manpower, cutting machine, sprayer and all tools tackles for all activities, complete smooth & finish as per direction of Engineer-In-Charge (NRDA Approved Rate)</p>		
		8866.20	SQM

" <u>TICKET COUNTER (NEAR ENTRANCE GATE & TOY TRAIN)</u> "			
S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1.1) In all types of soil (BUILDING SOR ITEM NO.-1.1.1/9)	40.95	CUM
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil (BUILDING SOR ITEM NO.-1.6.1/10)	11.70	CUM
3	Extra rate for every 50 mt. average lead upto 500 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. (BUILDING SOR ITEM NO.-1.9.1/10)	10.75	CUM
4	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water. (BUILDING SOR ITEM NO.-1.7/10)	24.57	CUM
		24.57	CUM
5	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)	30.20	CUM
6	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete. (BUILDING SOR. ITEM NO.-1.18/11)	9.77	CUM
7	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size). (BUILDING SOR. ITEM NO.- 3.1.3/23)	5.41	CUM

S.No.	PARTICULARS	QTY.	UNIT
8	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).		
	(BUILDING SOR ITEM NO.- 3.2/23)	16.73	CUM
9	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:		
	(BUILDING SOR. ITEM NO.-3.4/23)	8.55	CUM
10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:		
	Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	1672.50	KG
11	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	65.06	SQ.M
	Beams, lintels, Cantilevers & Walls.		
	(BUILDING SOR ITEM NO.- 2.1.8/16)	44.42	SQ.M
	Columns, Pillars, Piers and likes- rectangular or square in shape		
	(BUILDING SOR ITEM NO.- 2.1.5/16)	32.00	SQ.M
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)		
	(BUILDING SOR ITEM NO.- 2.1.7/16)	32.30	SQ.M
	Weather shade, chhajja, Cornices and mouldings		
	(BUILDING SOR ITEM NO.- 2.1.13/17)	3.62	SQ.M
12	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:1 2894-2002 of class designation 40 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.5.4/45)	5.75	CUM

S.No.	PARTICULARS	QTY.	UNIT
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth: (BUILDING SOR. ITEM NO.- 7.6/45)	9.75	CUM
13	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level: 7.11.2) Cement Mortar 1:4 (1 cement : 4 coarse sand) (BUILDING SOR ITEM NO.- 7.11/45)	2.59	SQ.M
	Extra for half brick work in superstructure above plinth level for every storey or part thereof in addition to rate for upto plinth: (BUILDING SOR ITEM NO.- 7.12/46)	2.59	SQ.M
14	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry. (BUILDING SOR ITEM NO.- 7.20/46)	2.59	SQM
15	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. (BUILDING SOR ITEM NO.- 3.13/24)	0.51	CUM
16	Providing and making 6 mm thick cement plaster of mix In Cement mortar 1:4 (1 cement : 4 fine sand) (BUILDING SOR. ITEM NO.-11.1/103)	30.70	SQ.M
17	Providing and making 12mm.thick cement plaster of mix: In Cement Mortar 1:6 (1 Cement : 6 fine Sand) (BUILDING SOR. ITEM NO.-11.2/103)	73.82	SQ.M
18	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 11.3.4.) In Cement Mortar 1:6 (1 cement : 6 fine sand) (BUILDING SOR. ITEM NO.-11.3/103)	62.72	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
19	<p>Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.</p> <p>9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.</p>		
	(BUILDING SOR ITEM NO.-9.18/81)		
		10.05	METER
20	<p>Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.</p>		
	35 mm. thick (single leaf)		
	(BUILDING SOR. ITEM NO.-8.12/56)		
		3.47	SQ.M
21	<p>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)</p>		

S.No.	PARTICULARS	QTY.	UNIT
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).		
	(BUILDING SOR ITEM NO.-9.47/85)	358.50	KG
	For fixed portion		
	(BUILDING SOR ITEM NO.-9.47/85)	286.80	KG
	9.46 Extra for powder coating (minimum 50 micron) on steel sections instead of red oxide zinc chromate primer		
	(BUILDING SOR ITEM NO.-9.46/85)	645.30	KG
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item): 9.51.2 With float glass panes of 5 mm thickness		
		14.85	SQ.M
	9.51.4 With float glass panes of 8 mm thickness ENTRANCE PARTITION		
	(BUILDING SOR ITEM NO.-9.51/85)	21.00	SQ.M
23	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.-9.15/81)	371.25	KG
24	Providing and fixing and galvanized wire mesh of I.S. gauge designation 85 G. with wires 0.56 mm 19x12 mm teak wood beading including priming coat of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.8.55/61)	1.62	SQ.M
25	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm		
	(BUILDING SOR ITEM NO.8.79/64)	2	EACH
26	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete: 250 x10 mm		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR ITEM NO.8.81/64)	2	EACH
27	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.		
	(BUILDING SOR ITEM NO.-8.90/65)	4	EACH
28	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:		
	125 mm		
	(BUILDING SOR ITEM NO.-8.84/65)	4	EACH
29	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 SOR ITEM NO.9.37/84)	5	EACH
30	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).		
	(BUILDING SOR ITEM NO.- 12.46.1/118)	3.00	SQ.M
	Extra for nosing in granite STONE FOR treads	4.00	MTR
	(BUILDING SOR ITEM NO.- 12.44/117)	2.00	MTR
31	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved 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.		
	12.9.1)300x300		
	(BUILDING SOR ITEM NO.- 12.9/112)	3.15	SQ.M
32	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 SQ.M including pointing in white cement mixed with matching pigment complete.		

S.No.	PARTICULARS	QTY.	UNIT
	12.7.1) Size upto 200x300mm (BUILDING SOR ITEM NO.- 12.7.1/111)	8.82	SQ.M
33	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.		
	12.13.1) Size 600x600mm (BUILDING SOR ITEM NO.- 12.13/112)	21.22	SQ.M
34	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)	167.24	SQ.M
35	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1) On new work (Three or more coats)		
	(BUILDING SOR ITEM NO.-14.11.1/133)	104.52	SQ.M
36	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 SQ.M) complete.		
	(BUILDING SOR ITEM NO.-14.12/133)	167.24	SQ.M
37	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:		
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)		
	(BUILDING SOR ITEM NO.-14.15.1/133)	62.72	SQ.M
38	Painting on new work (two or more coats) to give an even shade with 14.22.2 Premium synthetic enamel paint (BUILDING SOR. ITEM NO.-14.22.2/134)	14.85	SQM

S.No.	PARTICULARS	QTY.	UNIT
39	<p>Providing and laying integral cement based water proofing treatment on roofs, balconies, terraces etc with average thickness of 120mm and minimum thickness at khurra as 65 mm, consisting of following operations including surface preparation:</p> <p>i) Applying a slurry coat of neat cement using 2.75 kg/SQ.M of cement mixed with water proofing compound conforming to IS. 2645 over the RCC slab including adjoining walls upto 300mm height.</p> <p>ii) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) mixed with water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement</p> <p>(BUILDING SOR ITEM NO.-4.7/28)</p>	116.00	SQ.M
40	<p>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.</p> <p>(BUILDING SOR ITEM NO.- 3.16/24)</p>	53.00	SQM.
41	<p>Suppling and stacking of good earth at site including royalty,loading,unloading and carriage upto 10km(earth measured in stacks will be reduced by 20% for payment)</p> <p>(BUILDING SOR. ITEM NO.-22.2/204)</p>	1.62	CUM
42	<p>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).</p> <p>(BUILDING SOR ITEM NO.-22.4/204)</p>	0.36	CUM
43	<p>Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance</p> <p>(ROAD SOR ITEM NO.-12.8/46)</p>	5.00	EACH

S.No.	PARTICULARS	QTY.	UNIT
44	12.10 Providing and planting of plumeria (Champa) 2"0" to 3"0" heighted plants with 1"0" x 1"0"x1"6" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance		
	(ROAD SOR ITEM NO.-12.10/46)	10.00	EACH
45	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer. 9.3.1 Electric resistance or induction butt welded tubes Grade-300		
	(BUILDING SOR. ITEM NO.-9.3.2/80)	82.00	KG
46	Providing and fixing 15 cm. wide 45cm. overall semi circular plain G.I. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipe complete as per designs. 10.9.2 0.63 mm thick sheet		
	(BUILDING SOR. ITEM NO.-10.9/91)	16.40	MTR
47	Providing ridges or hips of 60cm overall width in plain G.I. sheet fixed with galvanized washers J or L hooks, bolts and nuts 8mm G.I. limpet and bitumen washers complete. 10.5.1 1.00 mm thick sheet with zinc coating not less than 275gm/sqm		
	(BUILDING SOR. ITEM NO.-10.5/90)	1.00	MTR

S.No.	PARTICULARS	QTY.	UNIT
48	<p>10.12 Supply and fixing of polymer precoated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.</p>		
	(BUILDING SOR. ITEM NO.- 10.12/91)	82.00	SQM

DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR NIGAM KORBA (C.G.)

GAZEBO

S.No.	PARTICULAR	QTY.	UNIT
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)	13.82	CUM
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)	7.73	CUM
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)	7.62	CUM
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).		
	(BUILDING SOR. ITEM NO.- 3.1/23)	3.03	CUM
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		

S.No.	PARTICULAR	QTY.	UNIT
	Coloured pigment precast interlock concrete blocks (BUILDING SOR. ITEM NO.-12.65/120)	11.78	SQM
6	Providing and laying nominal mix reinforcement 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). (BUILDING SOR. ITEM NO.- 3.2.1/23)	3.91	CUM
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:		
	Thermo-Mechanically treated bars FE 415 (BUILDING SOR. ITEM NO.-3.12.1/24)	390.76	KG
9	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, base of columns and plinth beam in any shape and size. (BUILDING SOR ITEM NO.- 2.1/16)	21.32	SQM
10	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand) (BUILDING SOR ITEM NO.- 7.5.4/45)	1.82	CUM
11	Providing and making 12mm.thick cement plaster of mix : In Cement Mortar 1:6 (1 Cement : 6 fine Sand) (BUILDING SOR. ITEM NO.-11.2/103)	14.99	SQ.M
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.M

S.No.	PARTICULAR	QTY.	UNIT
13	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.		
	9.3.1 Electric resistance or induction butt welded tubes Grade-300		
	(BUILDING SOR. ITEM NO.-9.3.1/80)	942.40	KG
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		
	(BUILDING SOR. ITEM NO.- 10.12/91)	18.85	SQM
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	136.22	KG

" OPEN YOGA AREA WITH STAGE "

S.No.	PARTICULARS	QTY.	UNIT
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 types of soils		
	(BUILDING SOR. ITEM NO.-1.1.1/9)	15.21	CUM
2	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)	17.72	CUM
3	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)		
	(BUILDING SOR. ITEM NO.-3.1.3/23)	4.22	CUM
4	Providing and laying nominal mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(BUILDING SOR. ITEM NO.-3.2.1/23)	2.74	CUM
5	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:		
	(BUILDING SOR. ITEM NO.-3.4/23)	2.74	CUM
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: 3.12.1 Thermo-mechanically treated bars FE 415		
	(BUILDING SOR ITEM NO.-3.12.1/24)	273.60	KG

S.No.	PARTICULARS	QTY.	UNIT
7	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for: 2.1.1) Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.-2.1.1 /16)	20.08	SQM
8	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: 7.5.4 Cement Mortar 1:6(1cement : 6 sand)		
	(BUILDING SOR. ITEM NO.-7.5.4/45)	3.24	CUM
9	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.		
	(BUILDING SOR ITEM NO.-3.13/24)	0.09	CUM
10	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: 11.3.4 In Cement Mortar 1:6(1cement:6sand)		
	(BUILDING SOR. ITEM NO.-11.3.4/103)	16.20	SQM
11	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 SQ.M and upto 0.50 SQ.M)		
	(BUILDING SOR ITEM NO.-12.49/118)	18.00	SQ.M
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. As per Inner , outer & Ceiling plastering-		
	(BUILDING SOR. ITEM NO.-14.13/133)	16.20	SQM
13	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1) On new work (Three or more coats)		
	(BUILDING SOR. ITEM NO.-14.11.1/133)	16.20	SQM

S.No.	PARTICULARS	QTY.	UNIT
14	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: 14.15.1 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)		
	(BUILDING SUR. ITEM NO.-14.15.1/133)	16.20	SQM
15	Providing and Planting following herbs in garden including preparation of soil,base plantation, providing and spreading different fertilizers,soil and sand.		
	22.25.4 Carpet Grass(Well developed) 100% OF AREA		
	(BUILDING SUR. ITEM NO.-22.25/207)	1200.00	SQM

"GYM AREA"			
S.No.	PARTICULARS	QTY.	UNIT
	Excavation for all types and sizes of foundations, Trenches and drains or for any other purpose Including disposal of excavated stuff upto 1.5m lift and lead upto 50m including dressing and leveling of pits,		
1.1.1	in all types of soil	18.00	CUM
4.1	Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively. (For Village roads only)	27.00	CUM
3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		
3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	9.00	CUM
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	9.00	CUM
	(NON SOR ITEM)		
A	Providing & fixing Exercise Equipment		
1	Chest Press & Pull Chair	2.00	EACH
2	Twister Triple	2.00	EACH
3	Arm Wheel Double	2.00	EACH
4	Sit Up Double	2.00	EACH
5	Stair Stepper & Twister	2.00	EACH
6	Air Swing Double	2.00	EACH
7	Elipitical Exerciser	2.00	EACH
8	Air Walker	2.00	EACH
9	Chest Press Double	2.00	EACH
10	Cross Walker Double	2.00	EACH
11	Exercising Bar	2.00	EACH
12	Leg Press Double	2.00	EACH

13	Pull Chair Double	2.00	EACH
14	Shoulder Wheel	2.00	EACH
15	Waist & Back Massager	2.00	EACH

"VOLLEYBALL COURT"

S.No.	PARTICULAR	QTY.	UNIT
1	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc.complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	393.00	CUM
2	Branded COSCO SPORTS Nylon (9.5 meter Volleyball Net of standard size- Brown colour, Material - Cotton		
	(NON SOR-GEM PORTAL)	1.00	Each
3	Branded Iron Fixed with Sleeves Volleyball Pole, Height 7 foot, Diameter 4 inch Height adjustable 3 foot Type Fixed with Sleeves Material of pole Iron, Material of Base Iron Height of pole 7 foot Weight (each side) 25 kilogram Number of plate 2Iron Fixed with Sleeves Volleyball Pole, Height 7 foot		
	(NON SOR-GEM PORTAL)	1.00	Each

"BASKETBALL COURT"

S.No.	PARTICULAR	QTY.	UNIT
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.		
	BUILDING SOR ITEM No.1.1/9	65.54	CUM
2	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)	65.54	CUM
3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	65.54	CUM
3	Mastic Asphalt (Providing and laying 25mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-39 prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with fine-grained hard stone chipping of 13.2 mm nominal size pre- coated with bitumen at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface, all complete as per clause-516.)		
	(PWD ROAD SOR NO. 5.11/22)	436.91	SQM

4	<p>Branded Basketball Movable Poles with Boards, Rings and Nets (Tournament Model) As Per The Standard of International Basketball Fedration with 01 Installation. Poles Size And Description - Standard pole extension 3.20 mtr Standard Ring height 3.05 Mtr, Mild Steel Black round pipe with umbrella System 12 Gaugeheavy duty 8" diameter, High quality PU paints, Weight type- batteries weight 600 Kg each side, Wheel Size: 6" x 2", "A" Grade Malaysian imported transparent Acrylic Boards of Size 1.80X1.05 Mts, 30 MM Thickness with Back Angle 100% Virgin Monomer, Three Spring Dunking Rings with Nets</p>		
	(NON SOR-GEM PORTAL)	2.00	Each

" BADMINTON COURT "

S.No.	PARTICULAR	QTY.	UNIT
1	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc.complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	393.00	CUM
2	Branded Competition Colour Net of standard size- Brown colour, Material - Cotton		
	(NON SOR-GEM PORTAL)	1.00	Each
3	Branded Badminton Net Poles with Outdoor and Indoor Utility, Material - 4mm Thick Steel, H = 2000mm, 75mm Outer Dia, Colour - White, Finishing - Powder Coated UV Resistan, Adjustable Height (beyond 1550mm),Pulley with Locking Device		
	(NON SOR-GEM PORTAL)	1.00	Each

"HERBAL GARDEN"			
S.No.	PARTICULAR	QTY.	UNIT
1	Suppling and stacking of good earth at site including royalty,loading,unloading and carriage upto 10km(earth measured in stacks will be reduced by 20% for payment)		
	(BUILDING SOR. ITEM NO.-22.2/204)	1087.66	CUM
2	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).		
	(BUILDING SOR ITEM NO.-22.4/204)	543.83	CUM
3	Providing and planting of 3"0" to 4"0" heighted wasingtonia, filiphertia/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.		
	(ROAD SOR ITEM NO.-12.6/45)	50.00	EACH
4	Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance		
	(ROAD SOR ITEM NO.-12.8/46)	100.00	EACH
5	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		
	(ROAD SOR ITEM NO.-12.9/46)	100.00	EACH
6	Providing and Planting following herbs in garden including preparation of soil,base plantation, providing and spreading different fertilizers,soil and sand.		
	22.25.4 Carpet Grass(Well developed)		
	(BUILDING SOR. ITEM NO.-22.25/207)	3806.81	SQM

DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR NIGAM KORBA (C.G.)			
"LANDSCAPE WORK"			
SOR No.	PARTICULAR	QTY.	UNIT
1	1.4 Clearing jungle including uprooting of rank vegetation, grass , brush wood, trees and saplings of girth upto 30cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area cleared	160244.60	SQM
2	22.2 Suppling and stacking of good earth at site including royalty,loading,unloading and carriage upto 10km(earth measured in stacks will be reduced by 20% for payment)	10071.36	CUM
3	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).	2014.27	CUM
4	22.5 Rough dressing the trenched ground including breaking clods.	50356.80	SQM
5	22.6 Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	50356.80	SQM
6	22.7 Fine dressing the guound	100713.60	SQM
7	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).	12085.63	CUM
8	22.9 Mixing earth and sludge or manure in proportion specified or directed.	12085.63	CUM
9	12.6 Providing and planting of 3"0" to 4"0" heighted wasingtonia, filipheria/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.		
	(ROAD SOR ITEM NO.-12.6/45)	1000.00	EACH
10	12.7 Providing and planting of 4"0" to 5"0" heighted 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.		
	(ROAD SOR ITEM NO.-12.7/45)	800.00	EACH

SOR No.	PARTICULAR	QTY.	UNIT
11	12.8 Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance		
	(ROAD SOR ITEM NO.-12.8/46)	4000.00	EACH
12	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		
	(ROAD SOR ITEM NO.-12.9/46)	3000.00	EACH
13	12.10 Providing and planting of plumeria (Champa) 2"0" to 3"0" heighted plants with 1"0" x 1"0"x1"6" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance		
	(ROAD SOR ITEM NO.-12.10/46)	1500.00	EACH
14	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 and plant"s protection insecticide). Up to 4 month maintenance.		
	(ROAD SOR ITEM NO.-12.11/46)	2000.00	EACH
15	22.25 Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:		
	25.4 Carpet grass (well developed)		
	(BUILDING SOR ITEM NO.-22.25.4/207)	25000.00	SQM

"LASER LIGHT FOUNTAIN AND SEATING AREA"

S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)	1523.88	CUM
2	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)	172.81	CUM
3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	172.81	CUM
4	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 3.4.2) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.2.1/23)	301.12	CUM
5	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:		
	(BUILDING SOR. ITEM NO.-3.4/23)	301.12	CUM
6	3.10 Extra for laying PCC/ RCC, in or under water or liquid mud including cost of pumping or bailing out of water and removing slush etc. complete:		
	(BUILDING SOR. ITEM NO.-3.10/24)	277.24	CUM
7	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: 3.1.2.1)Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	30112.20	KG
8	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, base of columns and plinth beam in any shape and size.		
	(BUILDING SOR ITEM NO.-2.1.1/16)	48.00	SQM
	(BUILDING BUILDING SOR ITEM NO.- 2.1.8/16)	311.22	SQM
9	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: 7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.5.4/45)	43.20	CUM
10	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix. 11.3.4.) In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(BUILDING SOR. ITEM NO.-11.3/103)	157.92	SQ.M

11	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). 12.46. Granite stone grey/pink		
(BUILDING SOR ITEM NO.- 12.46.1/118)		193.92	SQ.M
12	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved 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. 12.9.1)300x300		
(BUILDING SOR ITEM NO.- 12.9/112)		675.00	SQ.M
13	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 SQ.M including pointing in white cement mixed with matching pigment complete. 12.7.1) Size upto 200x300mm		
(BUILDING SOR ITEM NO.- 12.7.1/111)		252.00	SQ.M
FOUNTAIN			
Design, Supply, Installation, Testing & Commissioning			
1	Center jet :-Design, Supply and fixing of high vertical jet for a height of 40 feet made up of brass including 6 meter UPVC pipes, fittings & one control valve mounted on SS made framework with steel bolts and nuts including cost and conveyance of all materials etc.		
(NON SOR)		1	EACH
2	Sun Burst:- Design, Supply and fixing of Sun Burst fountain for a height of 25 feet made up of 1 1/2" stainless steel 304 grade pipe with 13 numbers of brass nozzles, 6 meter UPVC pipes, fittings & 1 control valve mounted on SS made framework with steel bolts and nuts including cost and conveyance of all materials etc.		
(NON SOR)		1	EACH
3	3. Butter fly:- Design, Supply and fixing of flying birds made up of brass with nickel plating, necessary motor with gear unit, UPVC pipes, fittings & control valves mounted on SS fabricated framework with stainless steel bolts and nuts including cost and conveyance of all materials etc., complete		
(NON SOR)		1	EACH
4	4. Wedding Cake:- Design, 10' x 10', 7' x 7', 4' x 4' size SS 304 grade pipe made square fountain sections arranged inside and inside with 160 numbers of 3/8" size brass made angle adjustable nozzles. UPVC pipes, fittings & control valves mounted on SS fabricated framework with stainless steel bolts and nuts including cost and conveyance of all materials etc., complete.		
(NON SOR)		2	EACH
5	Rainbow:- Design, Supply and fixing of Rainbow fountain for a height of 30 feet made up of 1" brass nozzles. 4 meter UPVC pipes & 1 control valve mounted on SS fabricated framework with stainless steel bolts and nuts including cost and conveyance of all materials etc.		
(NON SOR)		4	EACH

6	Cross Jets:- Design, Supply and fixing of static cross jets for a height of 20 feet. Made up of SS304 grade pipe mounted on SS frames with 3 numbers of brass nozzles in each set. 6meter UPVC pipes, & 7 control valve mounted on SS fabricated framework withstainless steel bolts and nuts including cost and conveyance of all materials etc		
	(NON SOR)	7	EACH
7	Sway jets:- Design, Supply and fixing of moving sway jets for a height of 20 feet made up of 1.6" stainless steel 304 grade pipe with required angle adjustable smooth streamnozzles 10 numbers made up of brass with one gear motor unit, 6 meter UPVC fittings& 10 control valves, mounted on an SS fabricated framework with stainless steel boltsand nuts including cost and conveyance of all materials etc		
	(NON SOR)	10	EACH
8	8. Revolving Parrots :- Design, Supply and fixing of revolving jet for a height of 10 feet made upof brass with 6 meter UPVC pipes, & 7 control valve mounted on SS fabricatedframework with stainless steel bolts and nuts including cost and conveyance of allmaterials etc		
	(NON SOR)	6	EACH
9	9. Mini Jets:- Design, Supply and fixing of 1" size brass made mini jets with 6 meter UPVCpipes, & 6 control valve mounted on SS fabricated framework with stainless steel boltsand nuts including cost and conveyance of all materials etc		
	(NON SOR)	6	EACH
10	10. Volcano:- Design, Supply and fixing of 4' SS 304 grade made fountain rings with 24 numbersof 0.6" size angle adjustable brass made nozzles with nickel plating, necessary UPVCpipes, fittings & control valves mounted on SS fabricated framework with stainless steel bolts and nuts including cost and conveyance of all materials etc., complete		
	(NON SOR)	4	EACH
11	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as per specification and IS: 694 (2010). Note: submersible Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant.		
	1.5 HP, single phase (for butterfly, rainbow,swaymini jet) jet)	10	EACH
	3.0 HP, three phase(SUNBURST)	2	EACH
	6.0 HP, three phase (Central jet, wedding cake jet)	6	EACH
	10 HP, three phase	1	EACH
	(ELECTRICAL SOR ITEM NO. 23.3)		
12	Supplying, installation, testing and commissioning of following 24 volts AC Supply LED under water light fitting for fountain with stainless steel body with IP 68 protection including connection, earthing complete as per specification and P.F. should be greater than 0.9 (Excluding Driver)		
	18watt RGB DMX	80	EACH
	24 watt RGB DMX	30	EACH
	(ELECTRICAL SOR ITEM NO. 6.84.20)		

<p>13</p>	<p>Supplying , installation ,testing and commissioning of splitter and booster ,should be able to provide multiple output DMX/RDM splitter with DMX/RDM pass-through supporting bi-directional communications for discovery, addressing and DMX control of Ethernet/DMX . The output terminals should be electronically isolated from the input & RDM-through port and share a common ground reference. All six output ports should have an independent output driver to boost the DMX/RDM signal ,it should be with surface or DIN-rail mountable,isolated DMX/RDM Input/Outputs,Automatic switching between DMX and RDM mode for auto-discovery including all accessories support etc as required with water proof M.S. Sheet panel of suitable size.</p>		
	<p>(ELECTRICAL SOR ITEM NO. 6.104)</p>	<p>2</p>	<p>EACH</p>

"CHILDREN PLAY AREA "			
S.No.	PARTICULARS	QTY.	UNIT
1	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.		
	(BUILDING SOR ITEM No.1.18/11)	374.28	CUM
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.	81.90	CUM
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.		
		27.30	CUM
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.		
	1.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	30.12	CUM
5	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).	27.30	CUM
6	7.24 Providing and laying precast cement concrete block in masonry work with precast blocks having crushing strength 75 kg/sqcm in cement mortar 1:6(1 Cement :6 coarse sand) .(To be used in boundary wall and plaster shall not be done.)(brick work)		
		12.69	Cum

7	13.17 Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilets or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.		
	17.2 Granite stone black	21.15	SQM
8	13.19 Extra for providing edge moulding to 15mm thick stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
	19.2 Granite work	94.00	Meter
9	13.20 Extra for fixing marble /granite stone in facia and drops of width upto 150 mm with epoxy resin based adhesive instead of cement mortar including cleaning etc. complete.		
		94.00	Merer
10	11.4 Providing and making 20mm thick cement plaster on stone masonry of mix:		
	4.3 In Cement Mortar 1:5 (1 cement : 5 fine sand)	56.40	SQM

11	<p>Stamp Concrete (Non SOR)</p> <p>Providing, applying and finishing the top surface of concrete with stamp concrete of approved colour and pattern, in accordance with manufactures specification of Bomanite/QC/Flex Stone or any other approval brand of colour Hardener @ of 2.7 kg/sqmt, i/c floating of colour hardner over concrete surface with different types of loaters; i/c application of release agent @ of 0.113 kg/sq mtr, stamping over the concrete surface with stamping tools, including cleaning of surface with water and cutting of finished concrete; i/c application of two coats of acrylic based sealer for finishing. Colour hardner and release agents shall be tested for abrasion resistance for a depth of wear, should not be more than 0.025 mm. Coverage of sealer coat could not be less than 7.53 sqmt per one litre coat; i/c cost of skilled manpower, cutting machine, sprayer and all tools tackles for all activities, complete smooth & finish as per direction of Engineer-In-Charge (NRDA Approved Rate)</p>	273.00	SQM
12	<p>Providing & fixing playground equipment.</p> <p>Skiddow Climber Product Area - Dia 10' x Height 6'</p> <p>Hanging Clember Product Area - 9' X 2' X 7'</p> <p>FRP Duck MRG Diameter - 4'/5'</p> <p>Joker MRG Diameter - 4'/5'</p> <p>Revolving Whirl MRG Diameter - 5'/6'</p> <p>Four Seater SEE SAW Product Area - 5.5' X 6.5' X 2.5'</p> <p>Horse Spring Rider Product Area - 3' X 2.6'</p> <p>Four Seater Swing Product Area - 20' X 5.5' X 10'</p> <p>Spiral Slide Platform Height - 5' / 7'</p> <p>Multiplay Station Product Area - 32.5' X 21.5' X 13.2' Safe Play Area - 40' X 25'</p> <p>Multiplay Station Product Area - 20.5' X 17.5' X 12.2' Safe Play Area - 25' X 20'</p>		

"CAFETERIA"			
S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)	132.40	CUM
2	Extra for every additional lift of 1.5M or part there of 1.6.1 All types of soil		
	(BUILDING SOR ITEM NO.-1.6.1/10)	52.96	CUM
3	Extra rate for every 50 mt. average lead upto 500 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. 1.9.1 For soil		
	(BUILDING SOR ITEM NO.-1.9.1/10)	44.25	CUM
4	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water.		
	(BUILDING SOR ITEM NO.-1.7/10)	26.48	CUM
5	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)	88.15	CUM
6	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	44.15	CUM
7	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	18.29	CUM
8	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).		
	(BUILDING SOR ITEM NO.- 3.2/23)	59.50	CUM

S.No.	PARTICULARS	QTY.	UNIT
9	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:		
	(BUILDING SOR. ITEM NO.-3.4/23)	22.80	CUM
10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:		
	Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	5949.93	KG
11	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	271.91	SQ.M
	Beams, lintels, Cantilevers & Walls.		
	(BUILDING SOR ITEM NO.- 2.1.8/16)	188.97	SQ.M
	Columns, Pillars, Piers and likes- rectangular or square in shape		
	(BUILDING SOR ITEM NO.- 2.1.5/16)	115.42	SQ.M
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)		
	(BUILDING SOR ITEM NO.- 2.1.7/16)	5.04	SQ.M
12	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in:		
	7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.5.4/45)	7.88	CUM
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth:		
	(BUILDING SOR. ITEM NO.- 7.6/45)	23.96	CUM
13	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level: 7.11.2) Cement Mortar 1:4 (1 cement : 4 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.11/45)	52.92	SQ.M
	Extra for half brick work in superstructure above plinth level for every storey or part thereof in addition to rate for upto plinth:		
	(BUILDING SOR ITEM NO.- 7.12/46)	52.92	SQ.M
14	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR ITEM NO.- 7.20/46)	52.92	SQM
15	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.		
	(BUILDING SOR ITEM NO.- 3.13/24)	1.24	CUM
16	Providing and making 6 mm thick cement plaster of mix In Cement mortar 1:4 (1 cement : 4 fine sand)		
	(BUILDING SOR. ITEM NO.-11.1/103)	32.04	SQ.M
17	Providing and making 12mm.thick cement plaster of mix : In Cement Mortar 1:6 (1 Cement : 6 fine Sand)		
	(BUILDING SOR. ITEM NO.-11.2/103)	165.75	SQ.M
18	Providing and making 15mm.thick cement plaster on the rough side of single or half brickwall of mix.		
	11.3.4.) In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(BUILDING SOR. ITEM NO.-11.3/103)	210.00	SQ.M
19	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.		
	9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.		
	(BUILDING SOR ITEM NO.-9.18/81)	41.30	METER
20	Providing and fixing flush door shutters , conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.		
	8.12.2 35 mm. thick (single leaf)		
	(BUILDING SOR. ITEM NO.-8.12/56)	16.17	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
21	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)		
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).		
	(BUILDING SOR ITEM NO.-9.47/85)	178.80	KG
	For fixed portion		
	(BUILDING SOR ITEM NO.-9.47/85)	143.04	KG
	9.48 Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.		
	(BUILDING SOR ITEM NO.-9.48/85)	321.84	KG
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):		
	9.51.1 With float glass panes of 4 mm thickness		
	(BUILDING SOR ITEM NO.-9.51/85)	17.88	SQ.M
23	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.-9.15/81)	447.00	KG
24	Providing and fixing and galvanized wire mesh of I.S. gauge designation 85 G. with wires 0.56 mm 19x12 mm teak wood beading including priming coat of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.8.55/61)	1.08	SQ.M
25	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm		
	(BUILDING SOR ITEM NO.8.79/64)	8	EACH

S.No.	PARTICULARS	QTY.	UNIT
26	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete: 250 x10 mm (BUILDING SOR ITEM NO.8.81/64)	8	EACH
27	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness. (BUILDING SOR ITEM NO.-8.90/65)	9	EACH
28	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete: 125 mm (BUILDING SOR ITEM NO.-8.84/65)	12	EACH
30	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). 12.46.2 Granite stone black (BUILDING SOR ITEM NO.- 12.46/118)	8.22	SQ.M
	Extra for nosing in granite STONE FOR treads (BUILDING SOR ITEM NO.- 12.44/117)	3.10	MTR
31	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. 12.13.1) Size 600x600mm (BUILDING SOR ITEM NO.- 12.13/112)	55.14	SQ.M
32	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved 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. 12.9.1)300x300 (BUILDING SOR ITEM NO.- 12.9/112)	45.94	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
33	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 SQ.M including pointing in white cement mixed with matching pigment complete.		
	12.7.1) Size upto 200x300mm		
	(BUILDING SOR ITEM NO.- 12.7.1/111)	9.98	SQ.M
34	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)	407.78	SQ.M
35	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. 14.11.1) On new work (Three or more coats)		
	(BUILDING SOR ITEM NO.-14.11.1/133)	197.78	SQ.M
36	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 SQ.M) complete.		
	(BUILDING SOR ITEM NO.-14.12/133)	407.78	SQ.M
37	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:		
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)		
	(BUILDING SOR ITEM NO.-14.15.1/133)	210.00	SQ.M
38	Painting on new work (two or more coats) to give an even shade with 14.22.2 Premium synthetic enamel paint		
	(BUILDING SOR. ITEM NO.-14.22.2/134)	17.88	SQM
39	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		
	(BUILDING SOR ITEM NO.-9.57/86)	288.00	KG

S.No.	PARTICULARS	QTY.	UNIT
40	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.		
	(BUILDING SOR. ITEM NO.-9.2/80)	4687.20	KG
41	10.11 Supply and fixing of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.		
	(BUILDING SOR ITEM NO.-10.11/91)	133.92	SQ.M

" BOLLARD AND DECORATIVE LIGHTS"			
S.No.	PARTICULARS	QTY.	UNIT
1	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 METER to 12 METER high GI octagonal pole including steel reinforcement (minimum 90kg per CUM), form work, embedding 2 nos 50mm dia PVC pipe for cable entry in EACH foundation, excavation disposal of surplus soil and curing etc. as required.		
	(ELECTRICAL SOR ITEM NO.19.12/74)	3.60	CUM
2	6.22 Supplying, installation, testing and commissioning of following 230/250 volts LED BOLLARD fitting cool white/warm white {Colour Temperature 3000/4000/5600/6000 K} with electronic driver, heat sink, capacitor and all other accessories on existing foundation/ pole bracket, including connection, earthing etc complete as per specification. P.F. should be greater than 0.9. LED chip efficacy ratio \geq 100 lumens/watt. 6.22.1 9 watt		
	(ELECTRICAL SOR ITEM NO.6.22.1/16)	100.00	EACH
	HDPE, GI, RCC Pipe		
3	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall 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.		
	75 mm outer dia and 60 mm Inner dia(for bollard top post)		
	(ELECTRICAL SOR ITEM NO.14.1/52)	1000.00	MTR
4	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).		
	3.5 x 25 sq. mm. (for bollard top post etc)	300.00	MTR
	3.5 x 185 sq. mm. (for electrical pole & panel)	50.00	MTR
	(ELECTRICAL SOR ITEM NO.15.3/54)		
	MAIN METAL BOARD, BBC, IC		
5	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 complete as per specification.		
	Above 450 mm and upto 600 mm deep		
	(ELECTRICAL SOR ITEM NO.7.19/34)	1.44	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
6	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.		
	300 amp (50x5mm)		
	(ELECTRICAL SOR ITEM NO.7.20/35)	2.40	MTR
7	9.1.5 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.		
	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA	1.00	EACH
	(ELECTRICAL SOR ITEM NO.9.1.5/50)		
8	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.		
	6 amps to 32 amps		
	(ELECTRICAL SOR ITEM NO.9.16/44)	10.00	EACH
9	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as per specification.		
	40 amps		
	(ELECTRICAL SOR ITEM NO.10.13/48)	2.00	EACH
10	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	50/5 amps		
	(ELECTRICAL SOR ITEM NO.10.15/48)	2.00	EACH
11	Providing and fixing panel mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	(ELECTRICAL SOR ITEM NO.10.17/49)	4.00	EACH
12	Providing and fixing panel mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	0-100 amps		
	(ELECTRICAL SOR ITEM NO.10.18/49)	1.00	EACH
13	Providing and fixing panel mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	Digital type		
	(ELECTRICAL SOR ITEM NO.10.20/50)	1.00	EACH

S.No.	PARTICULARS	QTY.	UNIT
14	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	For voltmeter	1.00	EACH
	For ammeter	1.00	EACH
	(ELECTRICAL SOR ITEM NO.10.21/50)		
15	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as per specification.		
	Analoge type		
	(ELECTRICAL SOR ITEM NO.10.22/50)	1.00	EACH
	EARTHING WORK		
16	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.	50.00	MTR
	(EL.SOR. ITEM NO.-12.13/49)		
17	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.	50.00	MTR
	(EL.SOR. ITEM NO.-12.12/49)		

"TOILET BLOCK"			
S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)	69.98	CUM
2	Extra for every additional lift of 1.5M or part there of		
	1.6.1 All types of soil		
	(BUILDING SOR ITEM NO.-1.6.1/10)	11.66	CUM
3	Extra rate for every 50 mt. average lead upto 500 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift.		
	1.9.1 For soil		
	(BUILDING SOR ITEM NO.-1.9.1/10)	176.92	CUM
5	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water.		
	(BUILDING SOR ITEM NO.-1.7/10)	55.98	CUM
6	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)	51.37	CUM
7	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	5.83	CUM
8	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.		
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	11.64	CUM
9	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).		
	(BUILDING SOR ITEM NO.- 3.2/23)	29.02	CUM
10	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:		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR. ITEM NO.-3.4/23)	18.97	CUM
11	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:		
	Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	3191.73	KG
12	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	56.28	SQ.M
	Beams, lintels, Cantilevers & Walls.		
	(BUILDING SOR ITEM NO.- 2.1.8/16)	74.70	SQ.M
	Columns, Pillars, Piers and likes- rectangular or square in shape		
	(BUILDING SOR ITEM NO.- 2.1.5/16)	33.60	SQ.M
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)		
	(BUILDING SOR ITEM NO.- 2.1.7/16)	66.06	SQ.M
13	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in:		
	7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.5.4/45)		
	Extra for brick work in superstructure Above plinth level for every floor or part thereof in addition to rate for foundation and plinth:		
	(BUILDING SOR. ITEM NO.- 7.6/45)	9.86	CUM
14	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:		
	7.11.2) Cement Mortar 1:4 (1 cement : 4 coarse sand)		
	(BUILDING SOR ITEM NO.- 7.11/45)	25.35	SQ.M
	Extra for half brick work in superstructure above plinth level for every storey or part thereof in addition to rate for upto plinth:		
	(BUILDING SOR ITEM NO.- 7.12/46)	25.35	SQ.M
15	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.		
	(BUILDING SOR ITEM NO.- 7.20/46)	25.35	SQM
16	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.		
	(BUILDING SOR ITEM NO.- 3.13/24)	0.50	CUM

S.No.	PARTICULARS	QTY.	UNIT
17	Providing and making 6 mm thick cement plaster of mix In Cement mortar 1:4 (1 cement : 4 fine sand)		
	(BUILDING SOR. ITEM NO.-11.1/103)	58.80	SQ.M
18	Providing and making 12mm.thick cement plaster of mix : In Cement Mortar 1:6 (1 Cement : 6 fine Sand)		
	(BUILDING SOR. ITEM NO.-11.2/103)	157.15	SQ.M
19	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.		
	9.18.3 Single rebate/ mullion 100mmx50mm size, 1.25mm thick sheet.		
	(BUILDING SOR ITEM NO.-9.18/81)	40.10	METER
20	Providing and fixing flush door shutters , conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.		
	35 mm. thick (single leaf)		
	(BUILDING SOR. ITEM NO.-8.12/56)	13.65	SQ.M
21	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)		
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).		
	(BUILDING SOR ITEM NO.-9.47/85)	52.20	KG
	For fixed portion		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR ITEM NO.-9.47/85)	41.76	KG
	9.46 Extra for powder coating (minimum 50 micron) on steel sections instead of red oxide zinc chromate primer		
	(BUILDING SOR ITEM NO.-9.46/85)	93.96	KG
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):		
	9.51.1 With float glass panes of 4 mm thickness		
	(BUILDING SOR ITEM NO.-9.51/85)	10.44	SQ.M
23	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.-9.15/81)	130.50	KG
24	Providing and fixing and galvanized wire mesh of I.S. gauge designation 85 G. with wires 0.56 mm 19x12 mm teak wood beading including priming coat of red oxide zinc chromate primer.		
	(BUILDING SOR ITEM NO.8.55/61)	1.44	SQ.M
25	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete: 8.79.2 250 x 16mm		
	(BUILDING SOR ITEM NO.8.79/64)	16	EACH
26	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete:		
	250 x 10 mm		
	(BUILDING SOR ITEM NO.8.81/64)	16	EACH
27	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.		
	(BUILDING SOR ITEM NO.-8.90/65)	16	EACH
28	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:		
	125 mm		
	(BUILDING SOR ITEM NO.-8.84/65)	32	EACH
29	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 SQ.M and above)		
	12.45.2 Granite stone black		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR ITEM NO.- 12.45/118)	3.00	SQ.M
30	Providing and laying ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved 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.		
	12.9.1)300x300		
	(BUILDING SOR ITEM NO.- 12.9/112)	31.00	SQ.M
31	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 SQ.M including pointing in white cement mixed with matching pigment complete.		
	12.7.1) Size upto 200x300mm		
	(BUILDING SOR ITEM NO.- 12.7.1/111)	271.11	SQ.M
32	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)	215.95	SQ.M
33	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.		
	14.11.1) On new work (Three or more coats)		
	(BUILDING SOR ITEM NO.-14.11.1/133)	215.95	SQ.M
34	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 SQ.M) complete.		
	(BUILDING SOR ITEM NO.-14.12/133)	215.95	SQ.M
35	Painting on new work (two or more coats) to give an even shade with		
	14.22.2 Premium synthetic enamel paint		
	(BUILDING SOR. ITEM NO.-14.22.2/134)	7.56	SQM

S.No.	PARTICULARS	QTY.	UNIT
36	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:</p> <p>1st layer of slurry of cement @ 0.488 kg/SQ.M mixed with water proofing cement compound @ 0.253 kg/SQ.M</p> <p>2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>3rdlayer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/SQ.M mixed with coarse sand @ 1.289 kg/SQ.M and water proofing cement compound @ 0.07 kg/SQ.M This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.</p> <p>4th and final layer of brick tiling with cement mortar (which will be paid for separately)</p> <p>For the purpose of measurement the entire treated surface will be measured.</p>		
	(BUILDING SOR ITEM NO.-4.6/28)	58.80	SQ.M
37	Providing and fixing High Pressure Laminate Exterior Cladding work		
	(NON SOR ITEM)	70.69	SQM

" SEPTIC TANK WITH SOAK PIT (3x2x2M) "

S.No.	PARTICULARS	QTY.	UNIT
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 teats 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1/9)	21.88	CUM
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	1.31	CUM
3	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 3.2.1) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.2.1/23)	6.81	CUM
4	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: 2.1.2) Wall of any thickness including attached pilasters, buttresses etc. in superstructure.		
	(BUILDING SOR ITEM NO.-2.1.2/17)	43.20	SQM
	(BUILDING SOR ITEM NO.-2.1.10/18)	9.90	SQM
5	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire all complete: 3.12.1 Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR ITEM NO.-3.12.1/24)	612.90	KG
6	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design. 20.11.1 With 20x20 mm square bar		
	(BUILDING SOR ITEM NO.-20.11/191)	12.00	EACH
7	Providing and fixing in position precast R.C.C. manhole cover and frame L D- 2.5 of required shape and approved quality Rectangular shape 600x450mm internal dimensions		
	(BUILDING SOR ITEM NO.-20.15.1)	2.00	EACH
8	25mm thick cement concrete flooring with 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with floating cost of neat cement.		
	(BUILDING SOR ITEM NO.-12.2/111)	6.00	SQM

S.No.	PARTICULARS	QTY.	UNIT
9	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.		
	(BUILDING SOR ITEM NO.-20.31/195)	1.00	EACH

"MONO RAIL TOY TRAIN"			
S.No.	PARTICULARS	QTY.	UNIT
1	Supply , Installation and Commisioning of train Engine 1 No. Compartments 5 Boogies Total Capacity – a) 30 Rail Track Length 1000 Meter (3280 Feet) Overall Width 1.7 Meter Overall Weight 6 tons (only Train) 14 tons for Track Power Supply 430 Volt Single Phase 50 Hz/output 48V Speed Up to 6 Km/ Hrs. Max (Adjustable) Brake Mechanical Brakes only in Engine Mechanical Brakes only in Engine DC Drive 10 HP 110 VDC motor, 8 Wheel Drive Others Miscellaneous Audio, Engine Horn, Old Western Theme Body Hot Dip Galvanized Chassis Lights LED Lights Paint ICI (IS 101) or Equivalent / Esdee Wheels Forged Track Wheels Anti-derailment devices Yes ELCB, MCB and Fuse Protection YES Track Rail Track with Wooden Seasoned Hard Wood Sleepers with Middle Pickup Track Panel Driver controller (5 HP capacity)	1.00	PIECE WORK
	Including all Taxes & profit		
	2 Year running maintenance and Warranty after Completed work.		
	(NON SOR ITEM)		

<u>"WATER BODY DEVELOPMENT"</u>			
S.No.	PARTICULARS	QTY.	UNIT
	DEEPENING OF POND		
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(SOR. ITEM NO.-1.1.1/9)	5382.30	CUM
2	Carriage by mechanical transport for 5 km lead:		
	(PWD SOR. ITEM NO.-1.26/12)	5382.30	CUM
3	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(BUILDING SOR. ITEM NO.-1.1.1/9)	1001.85	SQ.M
4	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	51.15	CUM
5	3.1 Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	51.15	CUM
6	6.1 Random rubble masonry with hard stone in foundation and plinth in Cement Mortar 1:6 (1 cement:6 sand) including levelling up with cement concrete 1:6:12 (1 cement:6sand:12 stone aggregate 20 mm nominal size) at plinth level.		
	(BUILDING SOR. ITEM NO.- 6.1/40)	336.84	CUM

S.No.	PARTICULARS	QTY.	UNIT
7	16.4 Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications as per section 2504 B Cement Concrete blocks of size 0.3x0.3 x0.3 m cast in cement concrete of Grade M15		
	(NH SOR. ITEM NO.- 16.4/68)	451.50	CUM
8	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.		
	(BUILDING SOR ITEM NO.- 18.76)	43.00	MTR
9	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.		
	(BUILDING SOR ITEM NO.-9.57/86)	3996.00	KG

" SIGNAGE (WAY FINDING & ENTRANCE OVERHEAD SING BOARD) "				
S.No.	S.No.	PARTICULARS	QTY.	UNIT
1		WAY FINDING SIGN BOARD		
		Retro- reflectorized Traffic signs (Providing and fixing of retro-reflectorized cautionary, mandatory and inforamatory sign as per IRC :67-2012 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 1.5 mm thick supported on a mild steel frame of size 40 x 40 x 5 mm and mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing and painting all components of the sign and supports as per clause 7.2 of IRC 67-2012)		
		A) Made of Class-C micro prismatic Sheeting of type XI (for National		
		a) With aluminium Sheeting of 2 mm thickness		
		iv) 800 mm x 600 mm rectangular		
		(ROAD SOR.ITEM NO.-8.4/29)	15.00	EACH
2		LED GLOW SIGN BOARD		
	A	Supplying, installation, testing and commissioning of Acrylic LED light (a) Specification of Acrylic:- 3mm thick x 3" width x 4" depth (imbose) (b) Specification of LED modules :- Each Moduel should have 6 Nos LED of 1 watt		
		(ELEC SOR.ITEM NO.-6.58)	161.54	SQFT
	B	Supply and installation of timer including relay and contactor set complete as required.		
		(ELEC SOR.ITEM NO.-6.59)	1.00	EACH
	C	Supplying and installation of SMPS (water proof) for power supply AC input 110/220 V 50/60HZ DC output 12V 30A		
		(ELEC SOR.ITEM NO.-6.60)	2.00	EACH
	D	Fabrication and installation of angle iron including angle size 50 mm x 5 mm thick with labour charges including materials as per specification		
		(ELEC SOR.ITEM NO.-6.61)	1050.00	Kg
	E	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work 4 mm thick		
		(ELEC SOR.ITEM NO.-6.62.1)	30.00	SQM

S.No.	S.No.	PARTICULARS	QTY.	UNIT
	F	Designing providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade on aluminium section for fixing aluminium/glass panel, sealing on perihphery of frame work by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure.		
		(ELEC SOR.ITEM NO.-6.63)	300.00	Kg

DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR NIGAM KORBA			
(C.G.)			
" ELECTRICAL POLE (350 Nos.) "			
S.No.	PARTICULARS	QTY.	UNIT
	Civil Work		
1	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 1.2 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.		
	(EL.SOR. ITEM NO.-19.12)	75.60	CUM
	Street Light Electrical		
2	Supply of hot dipped galvanized (in single dip to minimum 75 micron) octogonal 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 20mm 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)		
	19.6.1 3 metre high , dia 130mm at bottom and 75mm at top, base plate size 200x200x12mm, foundation bolts 450mm long		
	(EL.SOR. ITEM NO.-19.6.1)	175	EACH
	19.7 Supply of hot dipped galvanized (in single dip to minimum 75 micron) octogonal 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 20mm 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)		
	19.7.1 6 metre high , dia 130mm at bottom and 90mm at top, base plate size 220x220x12mm, foundation bolts 600mm long		
	(EL.SOR. ITEM NO.-19.7.1)	175	EACH
3	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.		
	19.9.1 Single Over Hang 0.75 metre Long	175	EACH
	19.9.6 Double Over Hang 1.00 metre Long	175	EACH
	(EL.SOR. ITEM NO.-19.9.6)		
4	Erection of GI octogonal/ Conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as required.		
	19.11.1 3 metre high	175	EACH
	19.11.4 6 metre high	175	EACH
	(EL.SOR. ITEM NO.-19.11.4)		
5	Painting of following height steel octogonal/Conical poles with two coat of approved colour and shade synthetic enamel paint including cleaning the surface as required:		
	19.24.1 upto 6 m pole	350	EACH
	(EL.SOR. ITEM NO.-19.24.1)		

6	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).		
	(EL.SOR. ITEM NO.-15.1)		
	15.1.22 4x10 sq. mm	3500.00	METER
	15.1.24 4x25 sq. mm	379.00	METER
7	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. .		
	15.23.23 4X10 sq. mm (22 mm)	700	NOS.
	(EL.SOR. ITEM NO.-15.23.23)		
8	Providing following size ISI marked FRLS PVC insulated , PVC sheathed, flexible copper conductor wire.		
	2.5 sq. mm three core	3500.00	METER
	(EL.SOR. ITEM NO.-32.2.5)		
9	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall 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.		
	16.1.5 180 mm outer dia and 152 mm Inner dia		
	(EL.SOR. ITEM NO.-14.1.5)	3500.00	METER
10	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 complete as per specification.		
	(ELECTRICAL SOR ITEM NO.7.19/34)	14.40	SQM.
11	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.		
	(ELECTRICAL SOR ITEM NO.7.20/35)	14.40	SQM.
12	9.1.5 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.		
	3 pole MCCB, 125A, Adjustable Thermal - Magnetic Release, 25KA		
	Incomer of Lighting Panel	10.00	EACH
	(ELECTRICAL SOR ITEM NO.9.1.5/50)		
13	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.		
	6 amps to 32 amps	100.00	EACH
	(ELECTRICAL SOR ITEM NO.9.16/44)		
14	Providing and fixing 3 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as per specification.		
	60 amps	20.00	EACH
	(ELECTRICAL SOR ITEM NO.10.13/48)		
15	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	100/5 amps	10.00	EACH
	(ELECTRICAL SOR ITEM NO.10.15/48)		
16	Providing and fixing panel mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.		

	(ELECTRICAL SOR ITEM NO.10.17/49)	40.00	EACH
17	Providing and fixing panel mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	0-200 amps	5.00	EACH
	(ELECTRICAL SOR ITEM NO.10.18/49)		
18	Providing and fixing panel mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	Digital type	5.00	EACH
	(ELECTRICAL SOR ITEM NO.10.20/50)		
19	Providing and fixing panel mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	For voltmeter	5.00	EACH
	For ammeter	5.00	EACH
	(ELECTRICAL SOR ITEM NO.10.21/50)		
20	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as per specification.		
	Analog type	5.00	EACH
	(ELECTRICAL SOR ITEM NO.10.22/50)		
21	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)		
	(EL.SOR. ITEM NO.-12.1/48)	350	SET
22	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering, excavation and refilling the trench etc. as per specification.	175.00	METER
	(EL.SOR. ITEM NO.-12.13/49)		
23	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.	175.00	METER
	(EL.SOR. ITEM NO.-12.12/49)		
24	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 120 lumens /watt.		
	6.28.4 30 watt	175.00	NOS
	6.28.6 45 watt	175.00	NOS
	(EL.SOR. ITEM NO.-6.29/17)		

DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR NIGAM KORBA (C.G.)

" PUMP HOUSE "

S.No.	PARTICULARS	QTY.	UNIT
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		
	(SOR. ITEM NO.-1.1.1/9)	16.20	CUM
2	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.		
	(SOR. ITEM NO.-1.18/11)	5.40	CUM
3	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of from work.		
	3.1.3 1:3:6(1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size)		
	(SOR. ITEM NO.-3.1.3/23)	2.25	CUM
4	Providing and laying nominal mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.		
	3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(SOR. ITEM NO.-3.2.1/23)	7.20	CUM
5	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:		
	(SOR. ITEM NO.-3.4/23)	3.92	CUM
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:		
	3.12.1 Thermo-mechanically treated bars FE 415		
	(SOR ITEM NO.-3.12.1/24)	1001.24	KG
7	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for:		

S.No.	PARTICULARS	QTY.	UNIT
	2.1.1) Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(SOR ITEM NO.- 2.1.1/16)	13.60	SQM
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		
	(SOR ITEM NO.- 2.1.5/16)	11.10	SQM
	2.1.7) Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ).		
	(SOR ITEM NO.- 2.1.7/16)	24.06	SQM
	2.1.8) Beams, lintels, cantilevers and walls.		
	(SOR ITEM NO.-2.1.8/16)	16.80	SQM
8	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:		
	7.5.4 Cement Mortar 1:6(1cement : 6 sand)		
	(SOR. ITEM NO.-7.5.4/44)	0.60	CUM
	Add extra for brick work in superstructure above plinth level for every floor (The Height of Floor upto 4.0 M.)		
	(SOR. ITEM NO.-7.6/45)	5.87	CUM
9	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:		
	7.11.2 Cement Mortar 1:4 (1 cement : 4 coarse sand)		
	(SOR. ITEM NO.-7.11.2/45)	3.60	CUM
10	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.		
	(SOR ITEM NO.-3.13/24)	0.12	CUM
11	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.		
	(SOR ITEM NO.-3.15/24)	2.40	SQM
12	Providing and making 6mm thick cement plaster of mix:		
	11.1.2 In Cement mortar 1:4 (1 cement : 4 fine sand)		
	(SOR. ITEM NO.-11.1.2/103)	19.68	SQM
13	Providing and making 12mm thick cement plaster of mix:		
	11.2.4) In Cement Mortar 1:6 (1 Cement : 6 fine Sand)		
	(SOR. ITEM NO.-11.2/103)	33.78	SQM
14	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:		
	11.3.4.) In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(SOR. ITEM NO.-11.3/103)	41.70	SQM

S.No.	PARTICULARS	QTY.	UNIT
15	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.		
	8.13.3) 30 mm. thick (single leaf)		
	(SOR. ITEM NO.-8.14/56)	42.60	SQM
16	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement..		
	12.3.2 50 mm thick		
	(SOR. ITEM NO.-12.3.2/111)	10.20	SQM
17	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.		
	(SOR. ITEM NO.-14.13/133)	95.16	SQM
18	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.		
	14.11.1) On new work (Three or more coats)		
	(SOR. ITEM NO.-14.11.1/133)	53.46	SQM
19	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:		
	14.15.1 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)		
	(SOR. ITEM NO.-14.15.1/133)	41.70	SQM
20	Painting on new work (two or more coats) to give an even shade with		
	14.22.2 Premium synthetic enamel paint		
	(SOR. ITEM NO.-14.22.2/134)	2.16	SQM
21	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.		
	(SOR. ITEM NO.-9.15/81)	21.60	KG
22.00	Providing and fixing brass door latch with brass polished MS screws complete:		
	8.61.1 300x16x5 mm		
	(SOR. ITEM NO.-8.61.1/62)	2.00	EACH
23	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:		
	8.62.1 250x10mm		

S.No.	PARTICULARS	QTY.	UNIT
	(SOR. ITEM NO.-8.62.1/62)	1.00	EACH
24	Providing and fixing bright finished brass door handles with brass polished MS screws complete:		
	8.65.1 125 mm		
	(SOR. ITEM NO.-8.65.1/62)	2.00	EACH
25	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:		
	8.58.1 125x85x5.50 mm (Heavy Type)		
	(SOR. ITEM NO.-8.58.1/62)	3.00	EACH

**DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR
NIGAM KORBA (C.G.)**

"BOREWELL WITH PUMP"

S.No.	PARTICULAR	QTY.	UNIT
1	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 points payable)		
	(BUILDING SOR ITEM NO. 21.17/201)	1	PT.
2	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.		
	(a) All Types of soil 200 mm dia		
	(BUILDING SOR ITEM NO. 21.1.1.4/198)	50.00	RMT
	(b) Rocky strata including Boulders 200 mm dia		
	(BUILDING SOR ITEM NO. 21.1.2.4/198)	100.00	RMT
3	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.		

S.No.	PARTICULAR	QTY.	UNIT
	21.7.4 200 mm nominal dia		
	(BUILDING SOR ITEM NO. 21.7/199)	21.00	RMT
4	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:		
	21.11.4 200mm dia		
	(BUILDING SOR ITEM NO. 21.11/200)	1.00	EACH
5	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.		
	21.12.4 200mm clamp		
	(BUILDING SOR ITEM NO. 21.12/200)	1	EACH
6	Supplying & Installation of Energy efficient five star BEE rating ISI Marked required capacity of Three Phase, 50 Hz, 415V, deep well submersible pump Steel body, suitable for 6" tube well with Control Panel Starter suitable for Submersible pump with dry run protection, single phase preventer, connections, including clamps, bore cap etc. as required as per specifications but excluding pipe and connection cable.		
	(I) 3 HP with 6 stages, head MT. 55-7 discharge 60-510		
	(PHE SOR ITEM NO.-34.20.106/353/2020)	1	EACH
7	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).		
	21.13.4 200mm dia		
	(BUILDING SOR ITEM NO. 21.13/201)	1	EACH

" EXTERNAL WATER SUPPLY PIPE LINE "			
S.No.	PARTICULAR	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)		
	1000 x0.30x0.60		
		180.00	CUM
2	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.		
	(BUILDING SOR ITEM NO.-1.17/11)		
	100 % OF ITEM NO. 1	180.00	CUM
3	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete:		
	19.9.6) 50 mm dia. nominal bore	100.00	MTR
	(BUILDING SOR ITEM NO.- 19.9/177)		
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.INTERNAL WORK - EXPOSED ON WALL.		
	19.6.4 32 mm nominal outer dia pipes	250.00	MTR
	19.6.6 50 mm nominal outer dia pipes	250.00	MTR
	19.6.8 75 mm nominal inner dia pipes	500.00	MTR
	(BUILDING SOR ITEM NO.-19.6/176)		

S.No.	PARTICULAR	QTY.	UNIT
5	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (Dia of main line to be measured)		
	19.10.4) 50 mm dia. nominal bore	20.00	EACH
	19.10.5) 65 mm dia. nominal bore	10.00	EACH
	19.10.6) 80 mm dia. nominal bore	10.00	EACH
	(BUILDING SOR ITEM NO.- 19.10/178)		
6	Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete:		
	19.11.6) 50 mm dia. nominal bore	20.00	EACH
	19.11.7) 65 mm dia. nominal bore	10.00	EACH
	19.11.8) 80 mm dia. nominal bore	10.00	EACH
	(BUILDING SOR ITEM NO.- 19.11/178)		
7	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):		
	19.16.5) 65 mm dia. nominal bore	15.00	EACH
	19.16.6) 80 mm dia. nominal bore	10.00	EACH
	(BUILDING SOR ITEM NO.- 19.16/179)		
8	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:		
	19.14.1 Bib cock (400 grams)	20.00	EACH
	19.14.6 Stop cock (concealed) (600 grams)	20.00	EACH
	(BUILDING SOR ITEM NO.-19.14/179)		
9	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore.	30.00	Each
	(BUILDING SOR ITEM NO.-19.17.2/179)		

S.No.	PARTICULAR	QTY.	UNIT
10	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 sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm 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 :		
	For 65mm to 100mm valve-		
	(BUILDING SOR ITEM NO.- 19.48/184)	20.00	EACH

DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR NIGAM KORBA (C.G.)

" GUARD ROOM "

S.No.	PARTICULARS	QTY.	UNIT
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 types of soils		
	(SOR. ITEM NO.-1.1.1/9)	13.50	CUM
2	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.		
	(SOR. ITEM NO.-1.18/11)	1.35	CUM
3	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)		
	(SOR. ITEM NO.-3.1.3/23)	2.64	CUM
4	Providing and laying nominal mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. 3.2.1 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(SOR. ITEM NO.-3.2.1/23)	7.06	CUM
5	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:		
	(SOR. ITEM NO.-3.4/23)	4.04	CUM
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting bending binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete: 3.12.1 Thermo-mechanically treated bars FE 415		

S.No.	PARTICULARS	QTY.	UNIT
	(SOR ITEM NO.-3.12.1/24)	706.40	KG
7	Providing and fixing formwork including centering, shuttering, strutting staging propping bracing etc. complete and including its removal at all levels for: 2.1.1) Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(SOR ITEM NO.-2.1.1 /16)	12.98	SQM
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape		
	(SOR ITEM NO.- 2.1.5/16)	9.20	SQM
	2.1.7) Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ).		
	(SOR ITEM NO.-2.1.7/16)	22.45	SQM
	2.1.8) Beams, lintels, cantilevers and walls.		
	(SOR ITEM NO.-2.1.8/16)	12.96	SQM
8	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:		
	7.5.4 Cement Mortar 1:6(1 cement : 6 sand)		
	(SOR. ITEM NO.-7.5.4/45)	0.23	CUM
	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:		
	(SOR. ITEM NO.-7.6/45)	3.36	CUM
9	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.		
	(SOR ITEM NO.-3.13/24)	0.05	CUM
10	Providing and making 6mm thick cement plaster of mix:		
	11.1.2 In Cement mortar 1:4 (1 cement : 4 fine sand)		
	(SOR. ITEM NO.-11.1.2/103)	21.00	SQM
11	Providing and making 12mm thick cement plaster of mix:		
	11.2.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(SOR. ITEM NO.-11.2.4/103)	24.12	SQM
12	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:		

S.No.	PARTICULARS	QTY.	UNIT
	11.3.4 In Cement Mortar 1:6(1cement:6sand)		
	(SOR. ITEM NO.-11.3.4/103)	30.37	SQM
13	Providing and fixing in position doors, windows and ventilators frames made of cold rolled pressed steel sheet framed profiles made from commercial M.S. Sheets conforming to I.S. 513 of 1973 and as per general specifications of I.S 4351 including hinges jamb, lock jamb, steel butt hinges, base tie, joints mitred and welded with 10cm long legs of size 15x3mm M.S. flat, embedded in cement concrete blocks 15x10x10cm size of grade M-10 or rawl plugs and screws or with fixing clips or with bolts and nuts including neatly compacted filling M-10 cement concrete in profile section applying a priming coat of red oxide zinc chromate primer.		
	9.18.3) Single rebate 100mm x 50mm size, 1.25 mm thick sheet		
	(BUILDING SOR. ITEM NO.-9.18/82)	5.40	RM
14	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.		
	8.12.3 30 mm. thick (single leaf)		
	(SOR. ITEM NO.-8.12/56)	2.52	SQM
15	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)		
	(SOR. ITEM NO.-9.47/85)		

S.No.	PARTICULARS	QTY.	UNIT
	9.47.2) For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).	40.32	kg
16	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):		
	9.51.2 With float glass panes of 5 mm thickness (SOR. ITEM NO.-9.51/85)	3.36	SQM
17	Extra for providing and fixing tinted glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.		
	9.58.2 5 mm thickness (SOR. ITEM NO.-9.58/86)	3.360	SQM
18	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.		
	(BUILDING SOR. ITEM NO.-9.15/81)	84.00	KG
19	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement..		
	12.3.2 50 mm thick (SOR. ITEM NO.-12.3.2/111)	6.25	SQM
20	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.		
	(SOR. ITEM NO.-8.137/71)	1.00	Each
21	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.		
	8.138.1 300mm (SOR ITEM NO.8.138/71)	1.00	Each
22	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.		

S.No.	PARTICULARS	QTY.	UNIT
	8.139.2 200 x10mm		
	(SOR. ITEM NO.-8.139/71)	1.00	Each
23	Providing and fixing 150mm antique/ S.S. finished brass floor door stopper with rubber cushion and antique/ S.S. polished MS screws to suit the shutter thickness.		
	(SOR. ITEM NO.-8.90/65)	1.00	EACH
24	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.		
	8.140.1 150 mm		
	(SOR. ITEM NO.-8.140/72)	2.00	Each
25	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.		
	As per Inner , outer & Ceiling plastering-		
	(SOR. ITEM NO.-14.13/133)	75.49	SQM
26	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade.		
	14.11.1) On new work (Three or more coats)		
	(SOR. ITEM NO.-14.11.1/133)	45.12	SQM
27	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:		
	14.15.1 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)		
	(SOR. ITEM NO.-14.15.1/133)	30.37	SQM

"PRECAST RCC SEATING BENCHES & DUSBINS"			
S.No.	PARTICULAR	QTY.	UNIT
1	3 Seater R.C.C. Precast Concrete Bench		
	(NON SOR ITEM)	45.00	EACH
2	Providing & fixing Material-HDPE, Type-Twin Bin with stand, Shape-Rectangular, Capacity-100L.		
	(NON SOR ITEM - GEM PORTAL)	50.00	EACH

**DETAILED ESTIMAE FOR PROPOSED ASHOK VATIKA FOR NAGAR
NIGAM KORBA (C.G.)**

" COMPOUND WALL - 1200 RMT "

S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits. 1.1.1) In all types of soil		
	(SOR ITEM NO.-1.1.1/9)	1219.84	CUM
2	Extra rate for every 50 mt. average lead upto 500 mt. beyond 50 mt. free lead and lift 1.5 mt. free lift. For soil		
	(SOR ITEM NO.-1.9.1/10)	304.96	CUM
3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 3.1.3) 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(SOR. ITEM NO.- 3.1.3/23)	67.77	CUM
4	Providing and laying nominal mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work. 3.4.2) 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(SOR. ITEM NO.- 3.2.1/23)	221.23	CUM
5	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:		
	(SOR. ITEM NO.-3.4/23)	33.68	CUM

S.No.	PARTICULARS	QTY.	UNIT
6	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete: 3.1.2.1)Thermo-Mechanically treated bars FE 415		
	(SOR. ITEM NO.-3.12.1/24)	17698.56	KG
7	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Foundations, footings, base of columns and plinth beam in any shape and size.		
	(SOR ITEM NO.-2.1.1/16)	961.20	SQM
	Columns, Pillars, Piers and likes- rectangular or square in shape		
	(SOR ITEM NO.- 2.1.5/16)	429.24	SQM
8	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)		
	(SOR. ITEM NO.- 7.5.4/45)	492.71	CUM
	(SOR. ITEM NO.- 7.6/45)		
9	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: 11.3.4 In Cement Mortar 1:6 (1 cement : 6 fine sand)		
	(SOR. ITEM NO.-11.3/103)	4927.12	SQM
10	White washing with lime to give an even shade.		
	(SOR. ITEM NO.-14.5.1/132)	4927.12	SQM
11	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:		
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 SQ.M over and including priming coat of exterior primer applied @ 2.20 kg/ 10 SQ.M)		
	(BUILDING SOR ITEM NO.-14.15.1/133)	4927.12	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
12	9.45 Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide fine aluminium primer and painting the post / strut in		
	(BUILDING SOR ITEM NO.- 9.45/84)	2786.95	KG
13	9.40 Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)		
	(BUILDING SOR ITEM NO.-9.40/84)	1200.00	MTR

" FENCING WORK - 200.00 M "			
S.No.	PARTICULARS	QTY.	UNIT
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 soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)	5.67	CUM
2	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.5/23)	4.55	CUM
3	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. 9.6.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.		
	(BUILDING SOR. ITEM NO.- 9.6.2/80)	1749.15	KG
4	Providing and fixing in position chain linked steel wire fabric made of 4 mm dia G.I. wire of required width in mesh to concrete/ wooden/ angle iron posts including securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins etc., complete. 9.43.1 Aperture 50x50mm		
	(BUILDING SOR ITEM NO.- 9.43.1/84)	440.00	SQ.M
5	9.45 Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.		

S.No.	PARTICULARS	QTY.	UNIT
	(BUILDING SOR ITEM NO.- 9.45/84)	784.30	KG
6	9.40 Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-incharge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)		
	(BUILDING SOR ITEM NO.-9.40/84)	200.00	MTR

"ENTRANCE GATE "			
S.No.	PARTICULARS	QTY.	UNIT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		
	1.1.1) In all types of soil		
	(BUILDING SOR ITEM NO.-1.1.1/9)	168.95	CUM
2	Extra for every additional lift of 1.5M or part there of		
	1.6.1 All types of soil		
	(BUILDING SOR ITEM NO.-1.6.1/10)	67.58	CUM
3	Carriage by mechanical transport upto 5 km lead:		
	1.26.1 Earth		
	(BUILDING SOR ITEM NO.-1.26/12)	30.61	CUM
4	Extra rate for quantity of work executed in or under water and/ or liquid mud including pumping out water.		
	(BUILDING SOR ITEM NO.-1.7/10)	101.37	CUM
5	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)	138.34	CUM
6	Providing and filling in plinth with sand /crusher dust and hard moorum under floor in layers not exceeding 20 cm in depth and consolidating each deposited layer by ramming and watering, including dressing etc. complete.		
	(BUILDING SOR. ITEM NO.-1.18/11)	10.14	CUM
7	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work.		
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).		
	(BUILDING SOR. ITEM NO.- 3.1.3/23)	10.14	CUM

S.No.	PARTICULARS	QTY.	UNIT
8	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)		
	(BUILDING SOR ITEM NO.- 3.2/23)	68.45	CUM
9	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:		
	(BUILDING SOR. ITEM NO.-3.4/23)	23.84	CUM
10	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete:		
	Thermo-Mechanically treated bars FE 415		
	(BUILDING SOR. ITEM NO.-3.12.1/24)	8214.53	KG
11	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:		
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.		
	(BUILDING SOR ITEM NO.- 2.1.1/16)	83.15	SQ.M
	2.1.12 Arches, domes and likes, exceeding 6 M. span		
	(BUILDING SOR ITEM NO.- 2.1.12/17)	153.36	SQ.M
	Columns, Pillars, Piers and likes- rectangular or square in shape		
	(BUILDING SOR ITEM NO.- 2.1.5/16)	5.76	SQ.M

S.No.	PARTICULARS	QTY.	UNIT
12	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). 12.46. Granite stone grey/pink		
	(BUILDING SOR ITEM NO.- 12.46.1/118)	5.76	SQ.M
13	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.		
	9.3.1 Electric resistance or induction butt welded tubes Grade-300		
	(BUILDING SOR. ITEM NO.-9.3.2/80)	5352.95	KG
13	12.14 Cement art Mural work		
	(ROAD SOR ITEM NO.- 12.14/46)	81.792	SQM.