



NAYA RAIPUR DEVELOPMENT AUTHORITY

**Tender Document for the
Construction of Mini Market, Auto & Taxi Stand (Phase-I)
at Naya Raipur**

(Following Three-Envelope Tender Procedure)

**Schedule – A
Price Tender
To be submitted in ENVELOPE-3**

NIT No. : 70 / MM & AT/ AE C-II / CE (E) / NRDA / 2013-14, Raipur,

Dated: 01.03.2014

Issued by: Chief Executive Officer,
Naya Raipur Development Authority (NRDA)
1st floor, Utility block, Capitol Complex, Sector-19,
Naya Raipur 492 002, Chhattisgarh
E-mail: ceo@nayarapur.com

Tender Document Contains

- (a) Only schedule "A" and Section-I of schedule "D" are to be filled & signed by the tenderer
 (b) All the certificates as per pre qualification criteria shall be appended with relevant forms of schedule "D"

1. PART ONE (NRDA F-1)-(Attached herewith, to be submit along the tender)

Part (A)

- a) Press Notice
 b) Detailed NIT

Part (B)

a) Schedule-A

- (i) Cost Abstract
 (ii) Bill of Quantities

- b) Schedule-B –NIL
 c) Schedule-C –NIL
 d) Schedule-D

Section-I..... Technical tender forms

- (i) Letter of Technical Tender
 (ii) Tenderer's Information Sheet
 (iii) Annual Turnover
 (iv) Specific Construction Experience
 (v) Declaration
 (vi) Check list for Technical tender evaluation

Section –IIScope of work

Section –III..... Technical specifications of work

Section –IV..... Special Conditions of Contract

Section –V..... List of approved makes

Section –VI..... Drawings

- e) Schedule-E
 f) Schedule-F

2. PART TWO (NRDA F-2/3)-Standard form (Not Attached herewith, and not to be submitted along the tender) Important note: - Link site <http://nayarapur.com/documents/gcc.pdf>

1. General Guidelines
2. Tender
3. General rules and directions
4. Conditions of contract
5. Clauses of contract
6. Model rules relating to labour, water supply and sanitation in labour camps safety code
7. Contract forms
 - (a) Draft Format for Performance Security
 - (b) Earnest Money Deposit Form (Bank Guarantee)
 - (c) Format of Contract Agreement
 - (d) Draft Format for Performance Guarantee for Water Proofing and Anti-termite Works
 - (e) Indemnity Bond
 - (f) Indenture Bond
 - (g) Notice for Appointment of Arbitrator
8. Proforma of schedules (Schedule 'A' to Schedule 'F')

Naya Raipur Development Authority (NRDA) Raipur, Chhattisgarh

Document details

Name of work: Construction of Mini Market, Auto & Taxi Stand (Phase-I) at Naya Raipur

Name of Tenderer:

Details

- a) Cost of Tender Document : Rs
- b) EMD : Rs

Signature of Tenderer

Date: _____

Signature of Contractor.....

Signature of NRDA.....

**Cost Abstract for
"Construction of Mini Market, Auto & Taxi Stand (Phase-I) at Naya Raipur"**

Sl. No.	Description Of Items	Amount in Figure (In INR)	Amount in Words (In INR)
A	Civil Works	-	
B	Electrical Works	-	
	Grand Total	-	

**Bill Of Quantity for
"Construction of Mini Market, Auto & Taxi Stand (Phase-I) at Naya Raipur"**

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
A	Civil Works					
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness if required and as per relevant clauses of section-200.	Hectare	0.84			-
2	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 1.5 km (at least 5m away from the excavated area), including dressing and leveling of pits including dewatering all complete.					
	In all types of soils such as moorum, sand, sandy silt, clay, black cotton soil, kankar etc					
a	Depth of excavation up to 1.5 m	Cum	2920.57			-
3	Back 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.	Cum	147.15			-
4	Providing and filling in plinth with sand/ Crusher dust under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	Cum	5.27			-
5	Construction of embankment / sub grade with Material Obtained from Borrow Pits (Construction of embankment with approved material/selected soil having C.B.R. > 5 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	Cum	1910.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
6	Construction of granular sub-base by providing close graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401					
	By Plant Mix Method for grading-III Material	Cum	1054.75			-
7	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	Cum	77.10			-
8	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with M 40 Grade concrete from batching plant , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	Cum	102.80			-
9	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work.					
a)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	Cum	135.41			-
b)	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	70.91			-
c)	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	Cum	33.19			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
10	RCC work: Providing and laying design mix reinforcement cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto floor five level excluding cost of reinforcement and form work.					
a)	M-20 (using minimum cement 390 kg/cum concrete)	Cum	111.67			-
11	Providing and laying Precast and Prestressed cement concrete of M-35 grade in superstructure including form work but excluding reinforcement complete as per drawing and specifications.	Cum	12.60			-
12	Precast cement concrete block masonry with precast blocks having crushing strength 75 kg/sqcm in foundation and plinth in cement mortar 1:5(1 Cement :5 coarse sand)	Cum	280.61			-
13	Reinforcement: 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:					
a)	Thermo-Mechanically treated bars	Kgs	15401.17			-
14	Formwork: Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
a)	Foundations, footings, base of columns and plinth beam in any shape and size.	Sqm	160.70			-
b)	Window sills, anchor blocks, string course, bends, copings, bed plates and like.	Sqm	1.20			-
c)	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	Sqm	333.75			-
15	12mm thick cement plaster of mix:					
a)	In Cement Mortar 1:4 (1 cement : 4 fine sand)	Sqm	1232.61			-
16	Distemping with acrylic washable distemper to give an even shade.					
	On new work (Two or more coats)	Sqm	1238.91			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
17	MS Railings: 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.					
a)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kgs	7884.00			-
18	Painting on new work (two or more coats) to give an even shade with:					
a)	Satin synthetic enamel paint (top most approved branded quality)	Sqm	327.60			-
b)	Painting on Concrete Surfaces : Two coats on new surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces)	Sqm	67.90			-
19	Random rubble masonry (RRM) with hard stone in foundation and plinth in Cement Mortar 1:6 (1 Cement : 6 Coarse Sand) including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand: 12 stone aggregate 20mm nominal size) at plinth level.	Cum	149.69			-
20	Coursed rubble masonry (CRM) with hard stone (Second Sort) in superstructure above plinth level and up to floor five level in Cement mortar 1:6 (1 Cement : 6 Coarse sand),.	Cum	135.12			-
21	Brick work with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in foundation and plinth in: Cement Mortar 1:4 (1 Cement : 4 Coarse Sand)	Cum	6.62			-
22	Pointing on stone work with cement Mortar 1:3 (1 cement : 3 fine sand)					
a)	Ruled pointing	Sqm	470.10			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
23	<p>Precast interlocking concrete paver blocks: Providing & laying factory made confirm technical specification of Bureau of Indian Standards 15658 of 2006 of heavy duty pavers resulting in consistent and uniform quality, rubber moulded, white cement based, pigmented block lacquer coating and cured through drying process mechanically vibrated and compacted precast interlocking premium concrete paver blocks in M40 grade, 60mm thickness of approved size, design and colour with providing and laying in position 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. Coloured pigment precast interlock concrete blocks. as per direction of engineer in charge.</p>					
	Coloured pigment precast interlock concrete blocks	Sqm	1030.61			-
24	<p>Providing PCC precast factory made kerb stone of 500 x400x150 mm size in M-25 grade of concrete using desi-gn mix with minimum cement content as per IS 456 for moderate exposure condition including fixing in PCC 1:2:4, 100 mm thick botom and sides, filling the joint with CM 1:2, Finishing with smooth cement plaster in CM (1:3) Paintig two coats with synthetic enamel paint in approved shade etc.complete including excavation and disposal of excavated material, making good the road etc.complete.The rate is inclusive of all types of taxes., trasportation,wastage. all type of labour, material, royalty etc. complete</p>	Meter	142.00			-
25	<p>Footpaths and Separators (Construction of footpath/ separator by providing a 150 mm compacted granular sub base as per clause 401 and 25 mm thick cement concrete grade M15, over laid with pre-polished cement concrete floor tiles confirm to IS 1237:1980 (Reaffirmed in 1996) for heavy duty tiles (Exterior Grade) of 22-25mm thick in cement mortar 1:4 including provision of all drainage arrangements but excluding kerb channel..) as per pattern, size and colour as approved by engineer.(Including cost of all NP3 150 mm dia. RCC Drainage pipes.)</p>	Sqm	44.70			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
26	Stone work with KOTA STONE Slab (machine cut edge) exposed face machine cut and table rubbed with rough backing for wall lining etc. (Veneer work) upto 10 metre height, backing filled with a grout of 20 mm thick cement mortar 1:3 (1 cement: 3 coarse sand), jointing with cement mortar 1:2 (1 cement: 2 stone dust) with admixture of pigment matching the stone shade including rubbing and polishing complete. (To be secured to the backing by means of cramps which shall be paid separately)					
a)	40mm thick	Sqm	51.15			-
27	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)					
a)	Granite stone black	Sqm	20.00			-
28	Providing and fixing M.S. flat iron tree guard 60cm dia. and 2m height above ground level formed of 4 nos. 25x6mm and 8 nos. 25x3mm vertical M.S. flats riveted to 3 nos. 25x6mm M.S. flat iron rings in two halves, bolted together with 8mm dia. and 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming, complete in all respects.	Nos	24.00			-
29	Supplying and fixing rolling shutter of approved makes made of M.S. laths interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and out side locking with push and pull arrangement complete but excluding the cost of top cover and spring.					
a)	80x1.25mm M.S. Laths	Sqm	31.50			-
30	Steel work in tubular 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.					

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
a)	Hot finished seamless welded tubes	Kgs	10719.00			-
31	Providing & fixing UV stabilised fibreglass reinforced plastic sheet roofing upto any pitch including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel ravings incorporating minimum 0.3% Ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.					
a)	2mm thick corrugated (2.5" or 4.2" or 6") or step-down (2"or 3"or 6") as specified.	Sqm	871.00			-
32	Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) watering ,dressing including removal of rubbish and surplus earth, prepration of base plantation, providing and spreading different fertilizers, soil and sand if any with all leads and lifts including cost of manure, sludge or extra good earth if needed and deweeding and as per instruction of Engineer in charge.	Rmt	200.00			-
33	Tree Plantation: Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volu-me of manure after reduction by 8%) flooding with water,dressing including removal of rubbish and surplus earth, if any with all leads and lifts including cost of manure, sludge or extra good earth , Holes 1.20 cm dia, and 1.20 cm deep as detailed in the specification					
	Trees - 1 yr. old. Ht.-3 to 6 ft.					
a	Magnolia grandiflora	Nos	8.00			-
b	Senna-Macranthera.	Nos	8.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
c	Millingtonia.	Nos	8.00			-
34	Providing and fixing 12mm thick Pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete.					
	With float glass panes of 5 mm thickness	Sqm	2.52			-
35	UPVC door frame : Providing and fixing factory made UPVC door frame made of UPVC profile section having an overall dimension as below (tolerance ± 1 mm) with wall thickness 2.0mm ± 0.2 mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm ± 0.1 mm wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge					
a)	Extruded section Profile size 48x40 mm.	Meter	12.00			-
b)	24 mm thick door shutters with styles and rails of size 59x24 mm	Sqm	3.20			-
36	Providing and laying ceramic glazed floor tiles 300x300mm 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.					
a)	In colours such as White, Ivory, Grey, Fume Red Brown,	Sqm	6.75			-
37	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete:					
a)	Flat back half stall urinal of size 580x380x350mm	Each	2.00			-
38	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :					

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
a)	White Size 630x450 mm	Each	2.00			-
39	Providing and fixing vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.					
	White	Each	2.00			-
40	Providing and fixing sand cast iron S&S pipe as per IS: 1729 for soil, waste and vent pipes:					
a)	100 mm dia.	Meter	5.00			-
b)	75 mm dia:	Meter	5.00			-
41	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:					
a)	15 mm dia. nominal bore	Meter	10.00			-
b)	20 mm dia. nominal bore	Meter	10.00			-
c)	25 mm dia. nominal bore	Meter	10.00			-
42	Providing and fixing concealed in wall G.I. pipes medium class complete with G.I. fittings and clamps, including painting with anti corrosive bitumastic paint, cutting chases, making good the walls etc. and testing of joints complete:					
a)	15 mm dia nominal bore	Meter	10.00			-
b)	20 mm dia nominal bore	Meter	10.00			-
43	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):					

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
a)	Bib cock	Each	4.00			-
b)	Stop cock	Each	4.00			-
44	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 :	Each	2.00			-
45	Providing and fixing Vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :					
a)	White pedestal type	Each	2.00			-
46	Providing and placing on terrace (at all levels) polyethylene water storage tank ISI marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.					
	2 nos of tank @ 1000 Liter each	litre	2000.00			-
47	Providing lowering laying in trenches, aligning, fixing in position and jointing socket rubber gasket type ISI marked uPVC pipe of Class-3 (6 Kg/sq.cm.) suitable for potable water with rubber ring joints as per IS:4985-2000 for following outer dia with all the accessories (excluding specials) complete including all material labour, hydraulic testing and commissioning as per technical specifications and as per the direction of Engineers .					
	200 mm dia	Rmt	50.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
	Sub total Civil Works					0.00
B	Electrical Works					
1	<p>LT Panel-Utility: Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and 900mm (NS) deep made out of not less than 2 mm thick CRCA MS sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ameters ets as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards. (Only face area is to be measured)</p> <p>INCOMER</p> <p>a) 1 No. 200A FP MCCB(35 KA)</p> <p>Metering & Indication</p> <p>a) 1 set of phase indicating lamps</p> <p>b) 1 set of (0-500V) Voltmeter with VSS</p> <p>c) 1 set of (0-200A) Ammeter with ASS with 3 nos. 200/5A CTs</p> <p>BUS-BAR</p> <p>a) 1 Set of 200A TPN Aluminium Bus Bar with colour coded PVC Sleeves</p> <p>OUTGOINGS</p> <p>a) 7 Nos. 63A TPN MCCB (35KA)</p>	Set	1			-
2	<p>Supplying and laying following sizes one number XLPE, steel armoured, aluminium conductor Power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL pipe as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.</p> <p>a) 3.5 x 50 sq. mm.</p>	Mtr.	50.00			-
	b) 2 x 10 sq. mm.	Mtr.	100.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
3	Supplying and making end termination with brass compression gland and aluminum lugs for following sizes armoured aluminium conductor power cable of 1.1KV grade along with accessories, hardwares etc as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	3½ X 50 sq. mm	Each	2.00			-
b)	2 x 10 sq. mm.	Each	14.00			-
4	Supplying and laying double wall HDPE pipe 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 including excavation, dismantling of road if required and refilling the trench etc. as required.					
a)	40mm	Mtr	10.00			-
b)	90mm	Mtr	60.00			-
5	Supplying and fixing of following sizes PVC conduit in surface manner along with accessories, hardwares etc as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	20 mm	Mtr.	30.00			-
6	Point Wiring for light/ fan/ exhaust fan/ call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable along with accessories, hardwares etc as required for completeness and as per attached specification, direction of Engineer, CGPWD standards Electrical Inspectorate standards					
a)	Short Point	Point	15.00			-
b)	Medium Point	Point	10.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
c)	Long Point	Point	5.00			-
7	Point wiring for light plug point with 2 x 2.5 sq mm FR PVC insulated stranded copper conductor single core cable cable in concealed PVC conduit along with modular type 6 amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable along with accessories, hardwares etc. as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	Medium Point	Point	6.00			-
8	Circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit along with accessories, hardwares etc. as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	3 X 1.5 sq. mm in 20mm conduit	Mtr.	50.00			-
b)	3 X 2.5 sq. mm in 20mm conduit	Mtr.	15.00			-
9	Supplying and fixing following size/ modules GI box with modular base & cover plate for modular switches in recess etc. as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	125mmX75mm (4 Module)	Each	1.00			-
10	Supplying and fixing modular stepped type electronic fan regulator (two module size) moving all rounds on the existing modular plate and switch box including connections but excluding modular plate etc. as required.	Each	6.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
11	Supplying and fixing 3 pin, 5 amp ceiling rose of approved make and ISI quality on the existing metal box including connections along with accessories, hardwares etc as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.	Each	6.00			-
12	Supplying and fixing polycarbonate batten/ angle holder of approved make and ISI quality including connections along with accessories, hardwares etc as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.	Each	8.00			-
13	Providing and fixing round/ hexagonal fan box (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab along with accessories, hardwares etc as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.	Each	6.00			-
14	Supplying, installation, testing and commissioning of following size ceiling fan of approved make and ISI quality including the down rods of 30 cm wiring with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing, connections along with accessories, hardwares etc as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	1050 mm sweep	Each	5.00			-
b)	1200 mm sweep	Each	1.00			-
15	Supplying, installation, testing and commissioning of following sizes exhaust fan (heavy duty) of approved make and ISI quality in existing opening in wall including earthing, connections along with accessories, hardwares etc as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	300 mm sweep	Each	1.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
16	Supplying, installation, testing and commissioning of following T-5 fluorescent fitting (luminaries) complete with electronic ballast but without fluorescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	Single mirror optic surface mounting type	Each	6.00			-
b)	Double mirror optic surface mounting type	Each	3.00			-
17	Supplying, fixing, testing and commissioning of following 230/250 volts fluorescent lamp (tube) in existing lighting luminaries as required for competeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a)	4' x 28 watt (T-5)	Each	12.00			-
18	Supplying and fixing on surface/ recess following way, 240 volts SP&N, MCB distribution board consumer unit of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as required. (But without MCB/ RCCB/ Isolator)					
a)	4 way, single door	Each	8.00			-
19	Supplying and fixing SP MCB , 240 volts, ' B' series , suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	6 amps to 32 amps	Each	8.00			-
20	Supplying and fixing SP MCB , 240 volts, ' C' series , suitable for inductive loads in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	6 amps to 32 amps	Each	8.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
21	Providing and fixing wooden board , made from approved good quality local wood of suitable size for energy meter along with accessories, hardwares etc as required for completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.	Each	6.00			-
22	Earthing with G.I. earth pipe 4.5 mtr 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 required.	Set	9.00			-
23	Supplying and laying 6 SWG G.I. wire at 0.50 Meter below ground level for conductor earth electrode, including soldering, excavation and refilling the trench etc. as required.	mtr	65.00			-
24	Supply of hot dipped galvanized (in single dip to average 70 micron) octoganal pole made of 3mm thick steel plate having base plate 200x200x12mm, 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, including template and anchor plate 240x240x3mm with 4 nos 450mm long, 16mm dia foundation bolts bolts (EN8 grade).					
a)	5 metre high, minimum dia 129mm at bottom and 75mm at top	Each	5.00			-
25	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 required.					
a)	Single Over Hang 0.75 metre Long	Each	5.00			-
26	Erection of GI octogonal pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as required.					
a)	5 metre high	Each	5.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
27	Designing and providing suitable RCC foundation for 5m metre 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. (size: 400 x 400 x 1200mm)	cum	1.00			-
28	Supply of 45W IP65 LED streetlight Luminaire complete with pressure die cast aluminum housing. The fixture shall be designed so as to have lumen maintenance of at least 70% at the end of 50,000 hours. Power Factor of the electronic driver should be at least 0.95 with THD<10% and efficiency of the luminaire to be more than 85%. Effective lumen package of greater than 3600 Lumens, LED colour temperature should be 5500 K and CRI greater than 75. Impact Resistance Level should be IK05.	each	5.00			-
29	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ concealed, steel/ PVC conduit/ PVC casing as required.					
a)	3x1.5 sq mm	mtr	30.00			-
30	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required					
a)	4 x 10 sq mm.	mtr	75.00			-
31	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 required.					
a)	4x10 sq mm	Each	10.00			-

Sr. No.	Description of Items	Unit	Quantity	Rate in INR	Rate in words (in INR)	Amount in INR
32	Design, Fabrication, Supply, Erection, Testing and commisioning of Powder coated, Weather Proof Double door type Feeder pillar fabricated out of 14 guage CRCA sheet steel in cubical, free standing, dust and vermin proof, with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Feeder pillar shall be treated with all anti-corrosive process before painting as per specification. Feeder Pillar shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels.Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated)	Set	1			-
	INCOMER					
	i) 1No. 80A FP MCCB(35 KA)					
	ii) 1No. 100A FP Contactor, AOM switch & Timers for 24 Hrs. setting					
	Metering & Indication					
	i) 1 set of phase indicating lamps					
	BUS-BAR					
	i)1 Set of 100A TPN Aluminium Bus Bar with colour coded PVC Sleeves					
	OUTGOINGS					
	i) 10 Nos. 20A FP MCB					
	Subtotal Electrical Works					0.00