



**NAYA RAIPUR DEVELOPMENT AUTHORITY**

**Tender Document for the  
Development of Utilities and Shopping Outlets(Phase-I) at  
Naya Raipur  
2<sup>nd</sup> Call**

**(Following Three-Envelope Tender Procedure)**

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

**NIT No.: 23 /SO/EEC-III/CE(E)/NRDA/2015-16, Raipur**

**Dated: 08.07.2015**

**Issued by:** Chief Executive Officer,  
Naya Raipur Development Authority (NRDA)  
1<sup>st</sup> Floor, Utility block, Capitol Complex, Sector- 19,  
Naya Raipur- 492 002, Chhattisgarh  
Tel No: + 91 771 2511500; Fax No.: +91 771 2511400.  
Website: [www.nayarapur.gov.in](http://www.nayarapur.gov.in)

## 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 –II .....Scope 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://nayaraipur.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 :** "Development of Utilities and Shopping Outlets(Phase-I) at Naya Raipur".

**Name of Tenderer:**

### Details

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

Signature of Tenderer

Date: \_\_\_\_\_

**COST ABSTRACT****Development Utilities and Shopping Outlets (Phase-I) at Naya Raipur , Chhattisgarh**

<b>S.No.</b>	<b>Description</b>	<b>Amount (INR)</b>	<b>Amount in Words ( In INR)</b>
1	CIVIL WORKS	-	
2	PLUMBING WORKS	-	
3	ELECTRICAL WORKS	-	
	<b>TOTAL</b>	-	

**Development Utilities and Shopping Outlets (Phase-I) at Naya Raipur , Chhattisgarh**

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
<b>A</b>	<b>CIVIL WORKS</b>					
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 soil	Cum	1469.04			Rs. -
2	Backfilling: 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	1072.50			Rs. -
3	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	1083.38			Rs. -
4	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	1375.12			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
b	Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes	sqm	662.00			Rs. -
c	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	sqm	1306.00			Rs. -
d	Beams, lintels, cantilevers & walls	sqm	781.94			Rs. -
e	Vertical and horizontal fins individually or forming box, louvers bands, almirah shelves and likes.	sqm	124.00			Rs. -
f	Weather shade, chhajja, Cornices and mouldings	sqm	350.00			Rs. -
5	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 cement:3 coarse aggregate:6 graded stone aggregate	Cum	115.76			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
6	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.					
	M-25 (using minimum cement content 410 kg/cum concrete)	Cum	707.84			Rs. -
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:					
	Thermo-Mechanically treated Bars	Kg	86256.46			Rs. -
8	DPC: 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.	cum	6.80			Rs. -
9	Water proofing material: Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	kg	1321.18			Rs. -
10	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.	sqm	127.44			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
11	<b>Plinth protection:</b> 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.	Sqm	875.86			Rs. -
12	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:					
a	Cement Mortar 1:6 (1 cement : 6 coarse sand)	cum	470.00			Rs. -
13	Extra for brick work in superstructure:					
	Above plinth and upto floor five level.	cum	139.20			Rs. -



SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
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:					
	Cement Mortar 1:3 (1 cement : 3 coarse sand)	cum	60.00			Rs. -
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.	sqm	60.00			Rs. -
16	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)	sqm	47.88			Rs. -
17	Providing and fixing antique/ SS finished brass parliamentary hinges with antique/ SS polished MS screw complete:					
	150x125x27x5mm	each	46.00			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
18	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete:					
	300x16 mm	each	18.00			Rs. -
19	Providing and fixing antique/ SS finished brass door latch with antique/ SS polished MS screw complete:					
	300x16x5mm	each	18.00			Rs. -
20	MS Grill: 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.	kg	3801.60			Rs. -
21	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.					

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
	Single rebate/ mullion 100mmx50mm size, 1.6mm thick sheet.	meter	84.00			Rs. -
22	Providing and fixing float glass panes with steel glazing clips and special metal sash putty of approved make in steel doors, windows, ventilators:					
	5mm thick	Sqm	143.02			Rs. -
23	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.					
	80x1.25mm M.S. Laths	Sqm	98.40			Rs. -
24	Providing and fixing 27.5cm long wire spring for rolling shutters.	each	20.00			Rs. -
25	Providing and fixing M.S. sheet top cover for rolling shutter					
	1.25mm thick	Sqm	29.52			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
26	Providing and fixing ball bearing for rolling shutters.	each	20.00			Rs. -
27	Providing and fixing mechanical device chain and crank operation for operating rolling shutters	set	10.00			Rs. -
28	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.	Each	26.00			Rs. -
29	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 to be paid for separately:					
	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).	meter	103.78			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
30	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 (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	kg	374.40			Rs. -
31	6mm thick cement plaster of mix: (ceiling)					

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
	In Cement mortar 1:3 (1 cement : 3 fine sand)	Sqm	997.62			Rs. -
32	12mm thick cement plaster of mix:					
	In Cement Mortar 1:4 (1 cement : 4 fine sand)	Sqm	1476.58			Rs. -
33	15mm thick cement plaster on the rough side of single or half brick wall of mix:					
33	In Cement Mortar 1:4 (1 cement : 4 fine sand)	Sqm	1327.53			Rs. -
34	Cement plaster skirting upto 30 cm. height with cement mortar 1:3 (1cement : 3 fine sand) finished with a floating coat of neat cement including rounding of junction with floor.					
	18 mm thick in two layers of 12mm and 6mm	Sqm	27.92			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
35	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, 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: (Floor tiles & Skirting)	Sqm	379.12			Rs. -
36	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)	Sqm	578.08			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
37	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado up to length of 1.0 M.)	Sqm	118.64			Rs. -
38	Extra for nosing in steps and treads of kota stone slab.	metre	268.74			Rs. -
39	8mm thick Granite tile work (machine cut, table rubbed & mirror polished) for wall lining (vener work) in cement mortar 1:3 (1 cement : 3 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 marble dust) mixed with matching pigment.					
	Granite stone grey/pink	Sqm	274.98			Rs. -
40	White washing with whiting to give an even shade.					
	On new work (Three or more coats)	Sqm	3801.74			Rs. -



SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
41	Distemping with acrylic washable distemper to give an even shade.					
	On new work (Two or more coats)	Sqm	2804.12			Rs. -
42	Painting on new work (two or more coats) to give an even shade with:					
	Premium synthetic enamel paint (2nd top most approved branded quality) to give an even shade.	sqm	649.68			Rs. -
43	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.	Sqm	746.16			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
44	Construction of embankment with Material Obtained from Borrow Pits/Borrow Area (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	355.86			Rs. -
45	Construction of granular sub-base by providing 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					
	Plant mix method (with Mechanically crushed stone only)					
	For Lower Sub-base with					
	Grading-III Material	Cum	190.86			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
46	Footpaths and Separators (Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 75 mm thick cement concrete base with PCC grade M-15, overlaid with pre-polished cement concrete floor tiles conform to IS 1237:1980 (Reaffirmed in 1996) for heavy duty tiles (Exterior Grade) of 22-25mm thick fixed in 20mm thick cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel excluding cost of GSB.) as per clause 410.		480.00			Rs. -
47	Cast in Situ Cement Concrete M20 kerb (Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in PCC M20 grade on PCC M10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 409)		480.00			Rs. -
<b>SUB TOTAL OF ALL CIVIL WORKS</b>						-

**Development Utilities and Shopping Outlets (Phase-I) at Naya Raipur , Chhattisgarh**

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
<b>B</b>	<b>PLUMBING WORKS</b>					
1	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :					
	White Orissa pattern W.C. pan of size 580x440 mm	each	4.00			Rs. -
2	Providing and fixing white vitreous china urinal basin with waste fitting, flush valve as per IS : 2556, and other couplings in C.P. brass complete:					
	Flat back half stall urinal of size 460x380x250mm	each	4.00			Rs. -
3	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :					
	White Size 550x400 mm	each	6.00			Rs. -
4	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink with drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :					
	1040x510 mm bowl size 460x410x200 mm	each	2.00			Rs. -

Sl.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
5	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
	32 mm dia	each	8.00			Rs. -
6	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2.00			Rs. -
7	Providing and fixing 600x120x5mm glass shelf with edges rounded off supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete	each	2.00			Rs. -
8	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :					
	For 100 mm dia pipe	each	8.00			Rs. -
9	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.					
	75 mm dia pipe	metre	28.00			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
	110 mm dia (for Sewerage)	metre	158.00			Rs. -
	110 mm dia (for Rainwater)	metre	176.00			Rs. -
10	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.					
	75 mm	Nos.	2.00			Rs. -
	"P" trap 110mmx110mm long	Nos.	4.00			Rs. -
	Nahani trap 110x75mm	Nos.	52.00			Rs. -
11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes on wall surface, 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.					
	15 mm nominal dia .Pipes.	metre	86.00			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
	20 mm nominal dia .Pipes.	metre	152.00			Rs. -
	20 mm nominal dia .Pipes.	metre	86.00			Rs. -
	25 mm nominal dia .Pipes. (down water pipe)	metre	70.00			Rs. -
12	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):					
a	Bib cock (250 grams)	each	52.00			Rs. -
b	Stop cock (350 grams)	each	14.00			Rs. -
13	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					
	20 mm nominal bore	each	12.00			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
14	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	litre	17000.00			Rs. -
15	Constructing masonry Chamber 30x30x50 cm, inside with modular Fly ash bricks of 35 kg/ cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 ( 1 cement : 5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :	each	18.00			Rs. -



SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
16	Constructing brick masonry manhole with modular Fly Ash bricks crushing strength not less than 35kg/cm <sup>2</sup> in cement mortar 1:4 ( 1 cement: 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :	each	14.00			Rs. -
17	Extra for depth for manholes					
	Size 90x80 cm	metre	14.00			Rs. -
18	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.	each	10.00			Rs. -
	<b>SUB TOTAL OF ALL PLUMBING</b>					Rs. -

Development Utilities and Shopping Outlets (Phase-I) at Naya Raipur , Chhattisgarh

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
<b>C</b>	<b>ELECTRICAL WORKS</b>					
1	<p>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 etc 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><b>INCOMER</b> 1 No. 100A FP MCCB(35 KA)</p> <p><b>Metering &amp; Indication</b> 1 set of phase indicating lamps 1 set of (0-500V) Voltmeter with VSS 1 set of (0-100A) Ammeter with ASS with 3 no s.100/5A CTs</p> <p><b>BUS-BAR</b> 1 Set of 100A TPN Aluminium Bus Bar with colour coded PVC Sleeves</p> <p><b>OUTGOINGS</b> 4 Nos. 32A TPN MCCB (35KA)</p>	set	4			Rs. -
2	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	40 mm dia	Mtr	1000			Rs. -
3	Supply and laying of 25x6 mm GI strip along with cable and making connections firmly with accessories, hardwares etc. required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards and connection	Each	50			Rs. -
4	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	22			Rs. -
5	Supplying and fixing on surface/ recess horizontal type, 4 way, single door, 240 V SP&N, MCB distribution board of sheet steel phosphatized and powder painted complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks including interconnections, earthing etc. as required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards. The board shall be mounted with: 1 No. 40A 2pole Isolator as Incomer; 4 Nos. 6-32A SP MCB C series 10kA as out going feeder. (for Common loads)	Each	18			Rs. -

SI.No	Description	Unit	Quantity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
6	Supply and fixing on surface/ recess horizontal type, double door, 415 V TP & N, MCB D.B. of sheet steel phosphatized and powder coating painted complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks including interconnections, earthing, accessories, hardwares etc. required for completeness and as per attached specification, direction of Engineer, CGPWD standards and Electrical Inspectorate standards. 8 way (4 + 24), Double door					
a	1 No. 63A 4pole, 415V, 300mA sensitivity RCCB as Incomer; 18 Nos. 6-32A SP MCB C series 10kA as out going feeder.	Each	4			Rs. -
7	Point Wiring for light/ fan/ exhaust fan/ call bell point with 1.5 sqmm FRLS PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 6 A modular switch ,modular base and cover plate with suitable size Gl. box and earthing the point with same size cable along with accessories, hardwares etc required for completeness and as per direction of Engineer, CGPWD standards ,Electrical Inspectorate standards.					
a	Short Point	Nos	212.00			Rs. -
b	Medium Point	Nos	44.00			Rs. -
c	Long point	Nos	26.00			Rs. -
8	Point wiring for light plug point with 2 x 2.5 sq mm FRLS PVC insulated stranded copper conductor single core cable cable in concealed PVC conduit along with 6 A modular switch and 3 pin 6 A modular socket outlet, modular base and cover plate with suitable size Gl. box, earthing the switch box and socket outlet with same size cable along with accessories, hardwares etc. required for completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a	Short Point	Nos	76.00			Rs. -
b	Medium Point	Nos	20.00			Rs. -
c	Long Point	Nos	18.00			Rs. -

SI.No	Description	Unit	Qunatity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
9	Point wiring for Power plug point with 2x 4 sq mm FRLS PVC insulated stranded copper conductor single core cable cable in concealed PVC conduit along with 16 A modular switch and 6 pin 6/16 A modular socket outlet,modular base and cover plate with suitable size GI. box earthing the switch box and socket outlet earthing with same size cable along with accessories, hardwares etc. required for completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a	Short Point	Nos	66.00			Rs. -
b	Medium Point	Nos	18.00			Rs. -
c	Long Point	Nos	8.00			Rs. -
10	Supply and fixing of following modular type switches and accessories of approved make and type such as switch, socket etc on the existing modular plates & switch box including connections along with accessories, hardwares etc required for completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a	3 pin 5/6 amp socket outlet	Each	118.00			Rs. -
b	6 pin 15/16 amp socket outlet	Each	90.00			Rs. -
c	Fan Regulator Electronic, step type moving all round	Each	62.00			Rs. -
d	Bell Push	Each	0.00			
e	Ceiling Roses	Each	144.00			Rs. -

SI.No	Description	Unit	Qunatity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
f	Batten/angle Holders	Each	88.00			Rs. -
11	Supply and fixing of 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 completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.	Each	66			Rs. -
12	Supplying, installation, testing and commissioning of following sizez <b>ceiling fan</b> of approved make and ISI quality including the down rods of 30 cm wiring with1.5 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	1200 mm sweep	Each	66			Rs. -
13	Supplying, installation, testing and commissioning of following sizes <b>exhaust fan</b> (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	32			Rs. -
14	Circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in concealed PVC conduit along with accessories, hardwares etc. required for completeness and as per direction of Engineer, CGPWD standards and Electrical Inspectorate standards.					
a	3 x 2.5 sqmm in 20mm conduit	Rmt	950.00			Rs. -

SI.No	Description	Unit	Qunatity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
15	Supplying, installation, testing and commissioning of following surface/ concealed type LED type light					
a	Baton type 18w Integral sleek extruded aluminium LED channel with white acrylic cover	Each	96			Rs. -
b	600mm x 600mm Surface mounting LED luminaire (36 W)	Each	40			Rs. -
c	300mm x 300mm Surface mounting LED luminaire (18 W)	Each	24			Rs. -
d	Down light 18 w	Each	8			Rs. -
e	Out door wall mounting decorative type LED Light 18 W	Each	42			Rs. -
f	LED flood flood lifgt 60 W	Each	32			Rs. -
16	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					
a	2x6 sq.m	Rmt	600.00			Rs. -
b	4x16 sqm	Rmt	350.00			Rs. -

SI.No	Description	Unit	Qunatity	Rate [In INR]	Rate in Words [In INR]	Amount [In INR]
c	4x25 sqm	Rmt	170.00			Rs. -
17	Supply and making end termination with brass compression gland and aluminum lugs for following sizes armoured Al.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	2X6 sqmm	Each	36.00			Rs. -
b	4x16 sqm	Each	16.00			Rs. -
c	4x25 sqm	Each	16.00			Rs. -
18	Supply and fixing of 2 pole and earth, 240 V, industrial type socket outlet for AC units, enclosed metal top plug with SP MCB in sheet steel enclosure, on surface or in recess, with chained metal top metal cover for the socket and complete with connections, testing, commissioning etc required for completeness and as per direction of Engineer,CGPWD standards and Electrical Inspectorate standards.					
a	32A with C series MCB	Each	54.00			Rs. -
<b>SUB TOTAL OF ELECTRICAL</b>						Rs. -