

**BNPM/NCB/389/CISF
INFRA-BUILDINGS
/2025-26 Dtd
26.11.2025**

**Bank Note Paper Mill India Private Limited (BNPM)
PMC : M/s Kulkarni Associates, Bangalore
Project: Construction of Infrastructural Buildings for
CISF at Note Mudran Nagar, Mysore.**

Volume -2

VOLUME-2 (Price Bid)

To be filled in Online Portal Only.





BANK NOTE PAPER MILL INDIA PRIVATE LIMITED



Registered & Corporate office: Administrative Office Building Paper Mill Compound, Entry Gate 1, Note Mudran Nagar,
Mysore - 570003

E-tender No. BNPM/NCB/CISF INFRA/389/2025-26 dated 26.11.2025

Schedule of Price (Financial Bid)

Name of work : CONSTRUCTION OF CISF INFRASTRUCTURE AT BNPM PREMISES, MYSORE

Name of the Firm (Mandatory Filed)

Summary'

Sl.No	DESCRIPTION	AMOUNT
1	PART-A CIVIL WORKS	₹ -
2	PART-B PLUMBING WORK	₹ -
3	PART-C ELECTRICAL WORK	₹ -
4	TOTAL EXCLUDING GST (PART A+PART B+PART C)	₹ -
5	ADD GST 18%	₹ -
TOTAL AMOUNT INCLUDING GST		₹ -

SAC CODE

Note : 1.Evaluation shall be done considering the GST. SAC code also to be entered.

2. The detailed price schedule with BOQ items for Part-A, Part-B & Part-C for civil, plumbing & sanitary and Electrical works respectively is enclosed in subsequent sheets needs to be filled and submitted. if any of the BOQ items have not been quoted, such BOQ items shall be operated as per the requirement at free of cost. Bidders are requested to quote carefully before submitting.

Schedule of Price (Financial Bid)

Name of work : CONSTRUCTION OF CISF INFRASTRUCTURE AT BNPM PREMISES, MYSORE

Name of the Firm (Mandatory Filed)

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
PART -A. CIVIL WORKS						
	1	SITE CLEARANCE				
1	1.1	Clearing and grubbing land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and stacking of serviceable material to be used or auctioned within the premises, including removal and disposal of top organic soil not exceeding 150mm thick in thickness by manual means.	Sq.m	5,400		-
2	1.2	Removal of trees with roots from the site of girth size 300-600mm dia. The rate shall include the cutting of tree, removal of stumps and disposal of unserviceable materials beyond BNPM premises and stacking of serviceable material to be used or auctioned etc as per the direction of engineer incharge .	Nos	120		-
3	1.3	Removal and breaking/crushing of dumped existing concrete/damaged concrete by mechanical means/ chiselling/cutting from the site up to depth up to 3 m, the rate includes transportation by mechanical transport the debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends for a lead up to outside the premises as directed etc complete as per the direction of engineer incharge.	Cum	150.00		-
4	1.4	Dismantling of existing concrete structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material beyond BNPM premises and stacking the serviceable material with all lifts and lead.	Cum	10		-
5	1.5	Earth work in surface excavation for Site Grading by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.	Cum	2,000		-
	2	EXCAVATION				-
		Earth work excavation for foundation by mechanical means for all works as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off unserviceable materail beyond premises and levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. The scope also includes dewatering of both ground and surface water, removal of slurry generated while excavation etc., complete as directed by the Engineer .				-
6	2.1	In all kind of soils depth from 0m- upto 1.5 m	Cum	1,000		-
7	2.2	In all kind of soils depth from 1.50m upto 3 m	Cum	1,105		-
8	2.3	In all kind of soils depth 3 m to 4.5 mtr	Cum	100		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
9	2.4	In all kind of soils depth 4.5 m to 6 mtr	Cum	30		-
10	2.5	In ordinary/soft rock without blasting upto 1.5 m	Cum	443		-
11	2.6	In ordinary/soft rock without blasting depth exceeding 1.5m, but not exceeding 3m.	Cum	111		-
12	2.7	In ordinary/soft rock without blasting depth exceeding 3m, but not exceeding 4.50m.	Cum	111		-
13	2.8	In hard rock with blasting (Chemical Blasting) depth upto 1.50m	Cum	30		-
14	2.9	In hard rock with blasting (Chemical Blasting) depth exceeding 1.5m, but not exceeding 3m.	Cum	170		-
15	2.10	In hard rock with blasting (Chemical Blasting) depth exceeding 3m, but not exceeding 4.5m.	Cum	400		-
16	2.11	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	Cum	2,200		-
17	2.12	Backfilling around foundation, plinth etc., with approved Gravel/Murum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenances required to complete the work. (Note: Borrow areas selected by CONTRACTOR shall be got approved from Engineer before starting work.) (Only compacted volume shall be measured for payment).	Cum	500		-
18	2.13	Removal and carriage of surplus excavated earth, debris, etc. from the site of work to other areas anywhere within the plant premises up to lead of 2km as directed by the Engineer incharge.	Cum	1,000		-
19	2.14	Transportation by mechanical transport , surplus excavated earth / rock /debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends for a lead up to out of the premises / the campus as directed etc complete as per the direction of engineer incharge	Cum	650		-
20	2.15	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications.(Note: Plinth area of building at ground floor only shall be measured for payment)	Sqm	2,700		-
	3	CONCRETE WORKS				-
21	3.1	Providing and laying in position Plain Cement Concrete Mix 1:4:8 using 40mm down size graded crushed coarse aggregates.for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.	Cum	110		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
22	3.2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 using 40mm down size graded crushed coarse aggregates.for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.	Cum	175		-
23	3.3	Providing and laying in position Plain Cement Concrete Mix 1:2:4 using 20mm down size graded crushed coarse aggregates.for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.	Cum	340		-
24	3.4	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand :4 aggregate with water proof compound of approve make etc., complete as per the direction of Engineer-Incharge.	Sqm	50		-
	3.5	Providing and laying in position Ready Mixed or Batch Mixed concrete as per IS 10262 mix design procedure for Cement Concrete works in all types of Structures other than Road works, using coarse aggregate and fine aggregate derived from natural sources, Ordinary Portland Cement (OPC) @ 75% & GGBS @ 25% proportion, admixtures to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering , reinforcement as per the drection of Engineer-In Charge . Note: (Design mix shall be as approved by the Structural Consultant / Employers representative)				-
	3.5.1	M30 Grade Concrete for all floors & at all Levels				-
25	3.5.1.1	Raft / Footing	Cum	385		-
26	3.5.1.2	Plinth beams	Cum	404		-
27	3.5.1.3	Columns	Cum	280		-
28	3.5.1.4	Roof Beams	Cum	577		-
29	3.5.1.5	Slabs	Cum	995		-
30	3.5.1.6	Staircases	Cum	58		-
31	3.5.1.7	Over Head Tanks	Cum	25		-
32	3.5.1.8	Under ground sump	Cum	55		-
	3.5.2	M25Grade Concrete for all floors & at all Levels				-
33	3.5.2.1	Raft / Footing	Cum	65		-
34	3.5.2.2	Plinth beams	Cum	45		-
35	3.5.2.3	Columns	Cum	65		-
36	3.5.2.4	Roof Beams	Cum	70		-
37	3.5.2.5	Slabs	Cum	110		-
38	3.5.2.6	Staircases	Cum	70		-
39	3.5.2.7	Walls & Parapets	Cum	135		-
	3.5.3	M20Grade Concrete for all floors & at all Levels				-
40	3.5.3.1	Lintels	Cum	120		-
41	3.5.3.2	Cills	Cum	20		-
42	3.5.3.3	Chejjas, loft, platform	Cum	90		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
43	3.6	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	sqm	510		-
	4	FORMWORK: Providing, fabricating and erecting form work at all levels and places and profiles wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant. Cost to include designing of proper form work and staging system to suit the requirements, Submission of design calculations and shop drawings for approval, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/triple heights and profiles for Note : Only plan area shall be considered. No extra shall be paid for Side shuttering of Drop panel/column capitals. etc complete as per the direction of engineer incharge.1) plywood shuttering shall be considered for all vertical elements, beam soffit,corewalls,stairs,ramps,tanks,RCCpedestals Etc., 2) M.S. plates shall be considered for foundation, slabs only.				-
	4.1	M-30 Concrete works (for all floors and at all Levels)				-
44	4.1.1	Raft / Footing @8% of concrete rate	Cum	385		-
45	4.1.2	Plinth beams @50% of concrete rate	Cum	404		-
46	4.1.3	Columns @70% of concrete rate	Cum	280		-
47	4.1.4	Roof Beams @60% of concrete rate	Cum	577		-
48	4.1.5	Slabs @50% of concrete rate	Cum	995		-
49	4.1.6	Staircases @60% of concrete rate	Cum	58		-
50	4.1.7	Cills @10% of concrete rate	Cum	25		-
51	4.1.8	Chejjas, loft, platform @45% of concrete rate	Cum	55		-
	4.2	M-25 Concrete works (for all floors and at all Levels)				-
52	4.2.1	Raft / Footing @8% of concrete rate	Cum	65		-
53	4.2.2	Plinth beams @50% of concrete rate	Cum	45		-
54	4.2.3	Columns @70% of concrete rate	Cum	65		-
55	4.2.4	Roof Beams @60% of concrete rate	Cum	70		-
56	4.2.5	Slabs @50% of concrete rate	Cum	110		-
57	4.2.6	Staircases @60% of concrete rate	Cum	70		-
58	4.2.7	Building Walls , Parapet walls @ 35% of concrete rate	Cum	135		-
	4.3	M-20 Concrete works (for all floors and at all Levels)				-
59	4.3.1	Lintels @60%	Cum	120		-
60	4.3.2	Cills @10% of concrete rate	Cum	120		-
61	4.3.3	Chejjas, loft, platform @45% of concrete rate	Cum	90		-
	5	STEEL (For All Floors and at all Levels)				-
62	5.1	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification.	MT	340		-
	6	STONE MASONRY and MASONARY WORKS ((For All Floors and at all Levels)				-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
63	6.1	Providing Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6coarse sand : 12 graded stone aggregate 20 mm nominal size) upto ground level with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	400		-
64	6.2	Providing and constructing Size stone masonry in foundation wall above ground level using sized stones in CM 1:6 (1 cement: 6 coarse sand) complete as per specification and as directed by Engineer incharge	Cum	485		-
65	6.3	Providing and constructing masonry wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	9,093		-
66	6.4	Providing and constructing masonry wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. Item includes 1:2:4 Concrete bands @ every 1m horizontally	Sqm	1,590		-
67	6.5	Providing and constructing masonry wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	120		-
	7	PLASTERING WORKS ((For All Floors and at all Levels)				-
68	7.1	Providing 15 mm cement plaster on the wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding,including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	23,300		-
69	7.2	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to masonry works including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	14,300		-
70	7.3	Providing 18 mm cement plaster for all external surfaces in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement : 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing steel scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. The waterproofing compound Conplast X4211C (FOSROC) 200 ml per bag of cement or equivalent, and mix of Recron 3S fiber 100gram per cement bag shall be added to first coat etc complete as per the direction of Engineer incharge. Item also includes providing necessary grooves of different sizes and 12-18mm thk.& 150-180mm wide bands and 50mm drip moulding, coving on chejjas.	Sqm	9,555		-
71	7.4	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to masonry works for base of dadoing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	2,100		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
72	7.5	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:4(1 cement :4 fine sand) after raking joints to depth 20MM nicely lining,including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.	Sqm	820		-
73	7.6	Providing and fixing of size 50 mm × 50 mm × 4 mm thk. aluminum Corner Beading for the corners edges	Rmt	50		-
	7.7	Providing and fixing suitable plaster mesh manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120g/m2 width, along route of walls chipped for services, junction between RCC and brick walls at all heights including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment				-
74	7.7.1	100mm wide for internal plaster	Rmt	900		-
75	7.7.2	150mm wide for external plaster	Rmt	900		-
76	7.7.3	Providing, supplying and fixing of Hexagonal Chicken Mesh of 18 guage for Electrical Conduit piping packing as per specification and as directed by Engineer Incharge.	Sqm	1,000		-
77	7.8	Providing lath plaster with cement mortar 1:3 , 5cms thick with 6mm dia mild steel bars at 20 cms. c to c both horizontally and vertically fixing chicken mesh for drop chajja, facia, backing to cup boards including cost of all materials, labour, providing and removing form work, curing, complete as per specifications. and directions of the Enginee-in-charge.	Sqm	1,100		-
	8	PAINTING: (At all floor & all Heights)				-
78	8.1	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 g/L as per specifications and as per directions of Engineer in charge	Sqm	38,000		-
79	8.2	Providing and applying white cement based putty of average thickness 2 mm, of Birla/ JK or approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete including cost aof all materials , cost of labours and scaffolding etc., complete as per the specification.	Sqm	26,700		-
80	8.3	Providing and applying Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 g/L of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats as per specifications and as per directions of Engineer in charge.	Sqm	30,000		-
81	8.4	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :Water thinnable cement primer to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer in charge	Sq.m	200		-
82	8.5	Providing , applying and finishing External walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67L/10 m ² over and including priming coat of exterior primer applied @ 2.20 kg/10 m ²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sq.m	200		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
83	8.6	Providing, applying and finishing external walls with textured exterior paint of required shade, Paint shall be applied @ 3.28 L/10 m ²) over and including priming coat of exterior primer applied @ 2.20kg/10 m ² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(For all floors/heights) (This item includes Exterior cement primer, texture of average thickness 3mm, Exterior Acrylic paint with scaffolding etc as directed by Engineering incharge)	Sqm	9,000		-
84	8.7	Providing and applying Painting Steel work with Synthetic Enamel paint to give an even shade. Two coat applied @ 0.90L/10 m ² over an under coat of Zinc phosphate primer applied @ 0.80 L/10 m ² of approved brand and manufacture including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	2,200		-
85	8.8	Providing and applying Painting wood work with Synthetic Enamel paint of required shade. Two coat applied @ 0.90L/10 m ² over an under coat of wood primer applied @0.75 L/10 m ² of approved brand and manufacture to give an even shade including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sq.m	500		-
86	8.9	Providing, applying Painting on Plaster surface with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sq.m	4,000		-
	9	DOORS AND WINDOWS (For all floor & at all levels)				-
87	9.1	Providing & fixing of 2.5 track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO ₂ (Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 94mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 58mm with GI reinforcement of 1.5mm and mesh sash of size 25mm x 42mm . Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 1819mm x 1819mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)(For all floors)(mesh shall be of SS304 0.50mm thickness, packing the gaps with backer rods and sealent etc. as directed by Engineer Incharge)	Sqm	605		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
88	9.2	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size - 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made).(For all floors) (packing the gaps with backer rods and sealent etc. as directed by Engineer Incharge)	Sqm	285		-
89	9.3	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.(For all floors)	Cum	15		-
90	9.4	Providing & Fixing of Honne wood beading 25X12 mm Architrave corner beads of wooden door frame to wall including cost of materials, labour charges, complete as per specifications.	RM	1,100		-
91	9.5	Providing and fixing in position fully panelled Honne wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. including 8 Nos of Hinges 125mmx35mmx4mm of SS Finish with SS Screws and excluding cost of fixtures.	Sqm	18		-
92	9.6	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame around door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification.- 35 mm thick both side commercial laminate of 1mm thickness as per aproved design and as directed by Engineer Incharge.including 3 Nos of Hinges 125mmx30mmx4mm of SS Finish with SS screws and excluding cost of fixtures	Sqm	245		-
93	9.7	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door Frames/Chowkhat of size 62 x 100mm comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibres (wood powder/rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 g) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 850 kg/m3, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2 , modulus of elasticity 900 N/mm2 and esistance to spread of flame of Class A category with property of being termite/borer proof, ater/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-InCharge.	RMT	855		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
94	9.8	Providing and fixing factory made Green certified, Anti Termite, UV resistant, high water absorbant single extruded WPC (Wood PolymerComposite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension grade), calcium carbonate and natural fibers (wood powder/rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 g) having minimum density of 650 kg/m3 and screw withdrawal strength of 1800 N (Face) & 900 N Edge), minimum compressive strength of 50 N/mm2 , modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws The cost includes cost of materials, transportation, labour and fixing charges.(Cost of Fixtures to be paid separately) 30mm thickness.including 3 Nos of Hinges 100mmx25mmx3mm of SS Finish with SS screws and excluding cost of fixtures.WPC Shutter shall have one side pre lam of approved design and other side enamel paint.	Sqm	250		-
95	9.9	Providing , supplying and fixing 19mm thick prelaminated Both side blockboard shutters for wardrobe including necessary framing and hardware of approved brand with necessary nails,screws, Lock, Soft closer Hinges, 3 inch Tower bolt, Handles etc. complete as per direction of Engineer-in-charge.	Sq.m	800		-
	10	FLOORING (At all floor & all Heights)				-
96	10.1	Providing and laying Lapotra Granite stone work for staircase steps and risers as per the architectural drawings with 18mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. The basic rate of Lapotra Granite slab is Rs. 1200/- per Sq.m excluding GST but including transportation loading and unloading, stacking etc complete as directed by Engineer Incharge Note: The stone shall be used single piece for treads and risers for all staircases	Sqm	415		-
97	10.2	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. The the rate of Granite slab is Rs. 1500/- per Sq.m excluding GST but including transportation loading and unloading, stacking etc complete as directed by Engineer Incharge	Sqm	1,600		-
98	10.3	Providing and fixing 18 mm thick gang saw cut granite of any color and shade, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch up,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.(For all floors) Basic rate for ceramic glazed tiles Rs.1800/Sqm excluding GST , but including transportation, loading and unloading , grouting the joints with white cement and matching pigments etc., complete..	Sqm	145.00		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
99	10.4	Providing edge moulding quarter edge polish to 18mm thick Granite stone counters, vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-charge.	Rmt	550		-
100	10.5	Providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	75		-
101	10.6	Providing Vitrified tiles flooring with 60cmx60cm of thickness 9-12 mm with approved make, shade and size for flooring laid on a bed of 20mm thk cement mortar 1:3 mix and grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge including cost of material, labour , curing complete as per specification . Note : the skiting quanity will be consedered in Sqm / horizontal measurement . Basic rate for vitrified tiles rustic finish Rs.620/Sqm excluding GST, but including transportation, loading and unloading , grouting the joints with white cement and matching pigments etc., complete.	Sqm	500		-
102	10.7	Providing and laying Polished Glazed Vitrified tiles of size 600mmx600mm with thickness 9-12mm in floor with different sizes flooring laid on a bed of 20mm thk cement mortar 1:3 mix with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Basic rate for polished glazed vitrified tiles Rs.700/Sqm excluding GST, but including transportation, loading and unloading , grouting the joints with white cement and matching pigments etc., complete.	Sq.m	5,000		-
103	10.8	Providing Providing and laying Anti Skid Ceramic floor tiles of size 300x300 mm / 400 x400 mm (thickness 9-12mm), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades laid on 20 mm thick bed of cement mortar 1:4 (1Cement : 4 Coarse sand), Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Basic rate for anti skid ceramic tiles Rs.500/Sqm excluding GST, but including transportation, loading and unloading , grouting the joints with white cement and matching pigments etc., complete..	Sq.m	953		-
104	10.9	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness 6-8mm), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer- in-Charge, in skirting, risers of steps 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/m2, including pointing in white cement mixed with pigment of matching shade complete. Basic rate for ceramic glazed tiles Rs.550/Sqm excluding GST, but including transportation, loading and unloading , grouting the joints with white cement and matching pigments etc., complete..	Sq.m	2,400		-
105	10.10	Providing and fixing 25mm thick Ferrocement (Andra Slab) slabs of required thickness as per specification and as directed by Engineer-in charge.	Sq.m	2,000		-
	11	WATERPROOFING WORKS for all levels				-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
106	11.1	Newly Constructed Roof/Podium with PU Waterproof coating Providing and Applying single component Polyurethane based cold applied seamless waterproofing coating to the RCC surface like Roof & Podium area applied @ 2.4kg/m ² in 3 coats to achieve 1.5mm DFT, including a prime coat of solvent free, medium viscous, epoxy primer @0.2L/m ² and protection with 120gsm Geo-textile over the 7 days cured waterproofing membrane. The Waterproofing material shall have Solids > 85%, Tensile strength >2 Mpa as per ASTM D 412, Elongation at break >400% confirms to ASTM C 1305 for crack bridging ability (no cracks up to 3.2mm) Shore A Hardness >55 as per ASTM D 240, Adhesion to peel after water immersion as per ASTM C 794 at 5.2N. Resistance to root penetration as per UNE CN/ TS 14416. The finished cost to include surface preparation, making coving of 50 mm X 50mm at all right angles of wall Junction with Polymer Repair Mortar and lay 60gsm Geo-textile over the angle fillet when the first coat is still wet, treatment of cracks completely as per specification The treated surface shall be protected by providing and laying 25-40mm thick screed concrete of mix 1:2:4 Hunching /Coving: Providing 25mm thick polymer modified cement mortar in CM 1:3 at the rate of 1 liter of SBR per bag of cement and coating with polymer modified cement slurry in 2 coats and finishing neat. Treatment includes surface preparation and curing complete. (Bore packing shall be paid separately) Waterproofing guarantee for ten (10) years shall be provided on stamp paper.	Sqm	2,400		-
107	11.2	Newly Constructed Roof/Bathroom/Toilet/balcony/utility with Cementitious Waterproof coating Providing and Applying CFTRI approved two component flexible polymer modified acrylic cementitious waterproofing coating with a mix ratio of (5 Liquid :7 Powder) to the RCC surface like Roof, bathroom, toilet, balcony & utility area applied @ 2.2kg/m ² in 2 coats to achieve 1.2mm DFT, having Elongation at break >120% as per ASTM D 412, Tensile strength >1N/mm ² as per ASTM D 412, Adhesion strength: 0.80N/mm ² as per ASTM D 4541, crack bridging upto 2mm as per ASTM C 836. The finished cost to include surface preparation, making coving of 50 mm X 50mm at all right angles of wall Junction with Polymer Repair Mortar and lay 45 gsm glass fibre mesh over the angle fillet when the first coat is still wet, treatment of cracks completely as per specification The treated surface shall be protected by providing and laying 15mm thick plastering with waterproofing compound of CM 1:3 Hunching /Coving: Providing 25mm thick polymer modified cement mortar in CM 1:3 at the rate of 1 liter of SBR per bag of cement and coating with polymer modified cement slurry in 2 coats and finishing neat. Treatment includes surface preparation and curing complete. (Bore packing shall be paid separately) Waterproofing guarantee for ten (10) years shall be provided on stamp paper.	Sqm	1,400		-
108	11.3	Providing & Applying Crystalline waterproofing slurry coat RCC structure like Retaining wall, Underground tank. The material having chemical resistance properties, seals shrinkage cracks up to 0.4 mm width, capable of preventing water dampness & seepages, Water permeability is Nil confirms to BS EN 12390 Part 8: 2000. Powder to water mixed at a ratio (5:2) 5 parts powder and 2 parts water, applied @ 1.5kg/m ² in 2 coats to achieve 1.0mm DFT on a cleaned surface free from all loose materials etc., complete. The finished cost to include surface preparation completely as per specification.	Sqm	500		-
109	11.4	Cinder Filling:- Providing and laying cinder concrete in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.	Cum	250		-
	12	STRUCTURAL STEEL WORKS for all levels				-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
110	12.1	Providing and fixing M.S. grills / shaft louvers of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved Zinc phosphate primer and two coats of enamel paint all complete.	Kg	20,500		-
111	12.2	Providing and fixing Steel work welded in built up sections (ISA, ISMC, ISMB, Flats, Rods, /Hollow sections i.e Pipes, Tubes,/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates, fencing post and similar works including cost of materials, labour, including all accceries/ hardwares/ usage charges of machinery complete as per specifications and as per directions of the engineer-Charge.	Kg	3,250		-
112	12.3	Providing and fixing 304-grade stainless steel hand rail of Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (including fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. Rates includes fixing of railing at all floors	KG	1,400		-
	13	MISSCILEANEOUS WORKS				-
113	13.1	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1,250		-
114	13.2	Supplying and fixing M15 grade precast cement concrete Kerb stones for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finished in line as per direction of Engineer in charge. (The cost of PCC shall be paid extra)	Rmt	210		-
115	13.3	Providing 150mm dia Wall bores in Brick/Block masonry upto 30 cm thick. For electrical/Plumbing/Chimney exhaust	Each	100		-
	13.4	Providing Wall bores/cutouts in concrete Columns/slab/Beams				-
116	13.4.1	50mm wall bore	Each	225		-
117	13.4.2	100mm wall bore	Each	325		-
118	13.4.3	125mm wall bore	Each	325		-
119	13.5	BORE PACKING for pipe joints Providing & applying high strength non shrink free flow grout (confirming to BS 1881-Part 116 : 1983) comprising of blend of portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state duly minimizing water demand. (Minimum 25mm thickness around the pipe) Standards 1. Compressive strength for 28 days 78 N/sqmm 2. Flowable (Water powder ratio 0.18) 3. Pourable (Water powder ratio 0.165) 4. Tensile strength for 28 days 3.5 N/ sqmm 5. Flexural strength for 28 days 10 N/ sqmm 6. Unrestrained expansion – 2 to 4 % in the plastic state Methodology : Non shrink free flow grout shall be added to the water in the ratio of 25 Kg : 4.125 ltrs of water for pourable condition and for flowable condition 4.5 ltrs by using heavy duty slow speed grill (400 to 500 RPM) fitted with the suitable peddle for 5 minutes. To get the best result the mixed grout should be placed and used in 20 minutes after the mixture.	Each	500		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
	13.6	Providing and fixing heavy-duty Mechanical Anchor Fasteners with washers of Size				-
120	13.6.1	12mm dia	each	425		-
121	13.6.2	16mm dia	each	425		-
122	13.6.3	20mm dia	each	425		-
123	13.6.4	25mm dia	each	425		-
124	13.7	Providing & Fixing of Hold fast MS to wall including cost of materials, labour charges, complete as per specifications.Providing & Fixing of corner beads of wooden door frame to wall including cost of materials, labour charges, complete as per specifications.	Each	800		-
125	13.8	Providing and fixing stainless steel finish Hardware/Fixtures such as Aldrop , Tower Bolt, Handles, Door Stopper, Nylon Bush etc complete as required conforming to 304 graded steel for Honne Door Double Shutter as per direction of engineer in charge. Basic rate for Hardwares is Rs. 3500/- excluding tax.	No	5		-
126	13.9	Providing and fixing stainless steel finish Hardware/Fixtures such as Aldrop , Tower Bolt, Handles, Door Stopper, Nylon Bush etc complete as required conforming to 304 graded steel for Flush Door single Shutter as per direction of engineer in charge. Basic rate for Hardwares is Rs. 2800/- excluding tax.	No	100		-
127	13.10	Providing and fixing Aluminium powder coated Hardware/Fixtures such as door latch, Nylon Bush, handles etc complete as required conforming to 304 graded steel for WPC Shutter as per direction of engineer in charge. Basic rate for Hardwares is Rs.500/- excluding tax.	No	160		-
128	13.11	Fixing of door frame in an existing opening including embedding frame in floor and walls (block masonry /concrete) after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.	Each	325		-
129	13.12	Providing and fixing 1.8 m high GI barbed wire fencing with 2.4 m angle iron posts 50 mm x 50 mm x 6 mm placed every 3 m center to center founded in M15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 12 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc complete as per clause 808	Rmt	230		-
130	13.13	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers, one coat of Zinc Phosphate primer and two coats of Synthetic enamel paint of approved make/colour as required complete as per the direction of Engineer-in-charge.(Cost of MS angle post, frame, concrete shall be paid separately)	Sq.m	1,000		-
131	13.14	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 m openable length (total length 90 m), having 50 nos rounds per 6 m length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T.reinforced barbed wire, stud 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/mm2 with tape (0.52 mm thick) and weight 43.478 g/m (cost of M.S. angle, C.C. blocks shall be paid separately)	Rmt	230		-
132	13.15	Providing /Supply of Sand bags of 50kg weight filled and packed in closed gunni bags etc complete as per the direction of engineer incharge	nos	100		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
133	13.16	Providing and fixing 6mm Clear/opal white/solar bronze/blue/green tinted Multi wall poly carbonate sheet for Tubular structure. The work including cost of all materials, labour charges and usage charges of machinery for cutting, welding, grinding and erection equipments, with all lead, transportation, loading and unloading and all other incidental charges etc. complete as per specification and directions of the Engineer in charge of the work.	sqm	130		-
134	13.17	Providing and fixing fan hooks (concealed type) of 16mm dia MS bars at specified locations including placing in position, aligning during concreting, exposing of hook after concreting, etc. complete.	nos	10		-
135	13.18	Providing and fixing wire Screen made up of 25mmx25mm welded mesh in 1.6mm steel wire with necessary framing in MS angle 25x25x5mm, flats and square rod as required and one coat of Zinc Phosphate primer and two coats of Synthetic enamel paint of approved make/colour and fixing assembly as directed by engineer and at all height etc. complete. Samples shall be approved prior to supply of material. etc complete as per the instnction of engineer in cahрге	Sqm	100		-
136	13.19	Corner Tape: Providing and fixing Aqua stop 120 tape of approved quality Nanoflex - Make Kerakoll India Pvt. Ltd. Or equivalent.	Rmt	10		-
137	13.20	M.S Grating for drain covering:-Using M.S angle frame of size 75mmx50mm frame fixed with 50dia 3mm thk hollow pipes welded to angle frame	Sqm	30		-
138	13.21	Providing and fixing a ACP CISF display board of size 15' X1.5 ' with 4mm thick ACP background to metal frame, 20mm thick soft board letters and 3mm white sticker	Each	2		-
139	13.22	Providing and fixing a ACP CISF display board of size 6' x 1' with 4mm thick ACP background to metal frame, 20mm thick soft board letters and 3mm white sticker	Each	2		-
140	13.23	Providing and fixing C. I Manhole covers with frame 610x455mm size. weight (5 ton capacity)	Each	3		-
141	13.24	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per desig For manholes ,sump tank and overhead tank.	Each	20		-
142	13.25	Providing Antiweed / soil sterilization treatment in switchyard before the coarse l filling using chemical of approved make. The manufacturer's specification shall be strictly followed for the treatment. Removal of existing weeds etc, complete.	Sq.m	250		-
143	13.26	Providing, Supplying, laying & spreading of 40mm coarse aggregates up to 100 mm thick with neat level and thorough packing including the lead up to 50 mtrs & lift and other necessary arrangements to complete the work.	Cum	20		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
144	13.27	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.	Sqm	75		-
	14	ROAD WORK				-
145	14.1	Earth work excavation for foundation by mechanical means for all works as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off unserviceable materail beyond premises and levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work. The scope also includes dewatering of both ground and surface water, removal of slurry generated while excavation etc., complete as directed by the Engineer . In all kind of soils depth from 0m- upto 1.5 m	Cum	783		-
146	14.2	Construction of Embankment by excavating the available approved Gravel/Murum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour, rolling, water,all materials,usage& all other appurtenaces required to complete the work. Filling - For road	Cum	250		-
147	14.3	Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment construction. Compaction	Cum	418		-
148	14.4	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401-For Grading -V Material GSB	Cum	149		-
149	14.5	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.WMM	Cum	200		-
150	14.6	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg/m2 using mechanical means.Prime Coat for bitumen	Sqm	990		-
151	14.7	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom	Sqm	990		-
152	14.8	Providing and laying Bituminous Macadam with 40/60 tph capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.3% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade,level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction	Cum	50		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
153	14.9	Providing and laying Semi Dense Bituminous Concrete with 40/60 TPH capacity hot mix plant batch type using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 5% by weight of mix and filler, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per MoRTH V revision.Laying SDBC	Cum	25		-
154	14.10	Road marking with hot applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. Note: A sealing primer may be applied in advance on cement concrete pavement to ensure proper bonding.	Sqm	36		-
	15	DRAIN WORK				-
155	15.1	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means as per drawing and technical specifications, including setting out,construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata.For Drain	Cum	140		-
156	15.2	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators,including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.2.1.6 Mix 1:2:4 Using 20 mm nominal size graded crushed coarse aggregates .PCC	Cum	22		-
157	15.3	Providing and laying in position Ready Mixed or Batch Mixed concrete as per IS 10262 mix design procedure for Cement Concrete works in all types of Structures other than Road works, using coarse aggregate and fine aggregate derived from natural sources, Ordinary Portland Cement (OPC) @ 75% & GGBS @ 25% proportion, admixtures to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the Engineer-in-charge. -RMC M20 Grade Concrete	Cum	78		-
158	15.4	Form Work 35%	Cum	78		-
	15.5	Providing and fixing Cast-in-situ R.C.C.slabs with OPC cement design mix M30 @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 excluding reinforcement as per drawings including cost of all other materials, labour, complete as per specifications. (With or without hole)				-
159	15.5.1	50mm thk	sqm	10		-
160	15.5.2	75mm thk	sqm	10		-
161	15.5.3	100mm thk	sqm	10		-
162	15.5.4	125mm thk	sqm	5		-
		TOTAL AMOUNT FOR PART-A CIVIL WORKS EXCLUDING TAX				-

 BANK NOTE PAPER MILL INDIA PRIVATE LIMITED		BANK NOTE PAPER MILL INDIA PRIVATE LIMITED								
		Registered & Corporate office: Administrative Office Building Paper Mill Compound, Entry Gate 1, Note Mudran Nagar, Mysore – 570003								
		E-tender No. BNPM/NCB/CISF INFRA/389/2025-26 dated 26.11.2025								
		Schedule of Price (Financial Bid)								
		Name of work : CONSTRUCTION OF CISF INFRASTRUCTURE AT BNPM PREMISES, MYSORE								
		Name of the Firm (Mandatory Filed)								
Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.				
PART-B PLUMBING WORKS (WATER SUPPLY AND SANITARY WORKS)										
	B	PLUMBING FIXTURES & FITTINGS								
1	1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required including W.C. pan with ISI marked white solid plastic seat and lid. Notes:The rates quoted shall include cost of necessary consumables like brass screws, CP extension nipple of approved make, dia and length, wooden plugs, white cement, sealants, etc., with all lead and lift at all level and as directed by engineer incharge. Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed. (Make: Essco By Jaquar or Equ-Range: Elements-Code: ECS-WHT-553SPP184NLZ)(Basic Rate exclusive of taxes:3815/set)	Each	28		-				
2	2	Providing,Supplying, installing, testing and commissioning of approved make white vitreous china clay, water closet Orissa patten squatting pan (Indian type W.C. pan) of size 510 x 405mm with integral type footrests, 100mm S or P trap, 10 litre low level, PVC flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making . The work shall include cutting making of walls, concrete surface and floors etc; complete as directed by the Engineer in charge. Notes:The rates quoted shall include cost of necessary consumables like brass screws, CP extension nipple of approved make, dia and length, wooden plugs, white cement, sealants etc., with all lead and lift at all level and as directed by engineer incharge. Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed. (Make: Essco By Jaquar or Equ-Range: Elements-Code: Code: ECS-WHT-453LE)(Basic Rate exclusive of taxes:2580/set)	EACH	59		-				
3	3	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls, concrete surface wherever require, with all lead and lift at all level and as directed by engineer incharge.: White Vitreous China Wash basin size 540x395 mm with a single 15 mm C.P. brass pillar tap (Make: Essco By Jaquar or Equ-Range: Wash Basin-Code: Code: CMS-WHT-103801 + Waste coupling: Code:ALE-CHR-543FT+ Swan Neck TapRange: Tropical Code: TQT-CHR-510)(Basic Rate exclusive of taxes:4514/set)- Wall Hung Basin with Half Padestal	EACH	11		-				
4	4	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require, with all lead and lift at all level and as directed by engineer incharge. White Vitreous China Wash basin size 690x380 mm with a single 15 mm C.P. brass pillar tap. (Under Counter Basin Range: Wash Basin) Code: AIS-WHT-101701 + + Waste coupling: Code:ALE-CHR-543FT+ Swan Neck Tap Range: Tropical Code: TQT-CHR-510)(Basic Rate exclusive of taxes :4050/set)	EACH	94		-				

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
5	5	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink 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. Kitchen sink with drain board. 508x1040 mm bowl depth 250 mm, with all lead and lift at all level and as directed by engineer incharge. : (Make: Hindware+ Waste coupling: Code:ALE-CHR-543FT+ Sink Cock Range: Orian Code: ORI-CHR-109347(Basic Rate exclusive of taxes:10146/set)	EACH	2		-
6	6	Providing, Fabricating and fixing Commercial type Double Bowl Stainless Steel kitchen sink as per IS:13983 Deck Mounted, Square shape , Bowl Size 1200x450x380mm with all necessary fittings, brackets and mounting stand , cutting and making good the walls, concrete surface wherever required. Including 15mm CP Swan Neck Tap, with all lead and lift at all level and as directed by engineer incharge.	EACH	2		-
7	7	Providing and fixing White Vitreous china Urinal , including flush pipe, with manually controlled device conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls, concrete surface and floors wherever required, with all lead and lift at all level and as directed by engineer incharge. (Make: Essco By Jaquar or Equ Range: Elements Code: ECS-WHT-253 + Valve Range: Tropical Code: TQT-CHR-526N (Basic Rate exclusive of taxes: 3510/Set)	EACH	4		-
8	8	Providing and fixing Bib cock with wall flange made of Stainless steel with all concealed fitting arrangements & all necessary accessories complete - (Make: Essco By Jaquar or Equ Short Body-Two Way Bib Cock Range: Delux Code: DLX-CHR-512ANKN)	NO'S	91		-
9	9	Providing and fixing Wall spout with wall flange made of Stainless steel with all fitting arrangements & all necessary accessories complete - (Make: Essco By Jaquar or Equ Long Body Bib Cock Range: Delux Code: DLX-CHR-512KN	EACH	167		-
10	10	Providing and fixing Angle valve/cock with wall flange made of Stainless steel with all concealed fitting arrangements & all necessary accessories (Make: Essco By Jaquar or Equ-Range: Marvel Code: MQT-CHR-526NKN)	EACH	231		-
11	11	Providing,Supply and fixing of 20mm dia.CP health Faucet with Flexible tube of length 1.2 mt (Make: Essco By Jaquar or Equ-Range: Allied Items Code: ALE-CHR-585	Each	86		-
12	12	Providing and fixing beveled edge mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame, complete with 6 mm thick hard board backing ground fixed to wooden cleats with C.P. brass screws and washers complete.	Sqmt	82		-
	13	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				-
13	13.1	32 mm dia	EACH	112		-
14	13.2	40 mm dia	EACH	8		-
15	14	Providing and fixing unplasticised PVC connection pipe with brass unions 60 cm length, nominal bore 15mm	EACH	225		-
16	15	Providing and fixing Towel rail 600mm length made of Stainless steel with all concealed fitting arrangements & all necessary accessories complete - Class Economy	EACH	118		-
17	16	Providing and fixing Robe hook twin made of Stainless steel with all concealed fitting arrangements & all necessary accessories complete - Class Economy	EACH	160		-
18	17	Providing and fixing PVC (S.W.R) Nahani Trap 10cms x 10cms with all fitting arrangements & all necessary accessories complete	EACH	82		-
19	18	Providing and fixing PVC (S.W.R) Multi Floor Trap 10.0 cm X 7.5 cm X 5.0 cm X 4.0 cm with all fitting arrangements & all necessary accessories complete	EACH	228		-
20	19	Providing and fixing CP grating with frame 125mm dia of approved brand (with/without center hole) .	EACH	310		-
	20	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) :				-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
21	20.1	25mm dia. (Screwed end)	EACH	32		-
22	20.2	32mm dia. (Screwed end)	EACH	38		-
23	20.3	40mm dia. (Screwed end)	EACH	20		-
24	20.4	50mm dia. (Screwed end)	EACH	13		-
25	20.5	80mm dia. (Screwed end)	EACH	1		-
	21	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				-
26	21.1	20mm dia. (Screwed end)	EACH	33		-
	22	Providing,Supplying and fixing approved make gun metal butterfly valve (PN 10)to suit the diameter including necessary fittings, cutting and threading to pipes etc.complete				-
27	22.1	40mm dia. (Screwed end)	EACH	9		-
28	22.2	50mm dia. Flanged end.	EACH	7		-
29	22.3	63mm dia. Flanged end.	EACH	1		-
30	22.4	80mm dia. Flanged end.	EACH	2		-
		HOT & COLD WATER Providing, Supply				-
	23	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 GI clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases, making holes of required dia and making good the walls, concrete surface, etc with all lead and lifts as directed by engineer incharge.				-
31	23.1	15 mm nominal dia pipe	RMT	165		-
32	23.2	20 mm nominal dia pipe	RMT	715		-
33	23.3	25 mm nominal dia pipe	RMT	300		-
	24	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with GI clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete, including making of brick pedestal at terrace for ring main and making holes of required dia in wall , concrete surface etc complete, with all lead and lifts as directed by engineer incharge. Internal work - Exposed on wall				-
34	24.1	20 mm nominal dia pipe	RMT	370		-
35	24.2	25 mm nominal dia pipe	RMT	970		-
36	24.3	32 mm nominal dia pipe	RMT	820		-
37	24.4	40 mm nominal dia pipe	RMT	420		-
38	24.5	50 mm nominal dia pipe	RMT	40		-
39	25	Providing,Supply & fixing of electronic Fully Automatic for Over Head Tank Water Level Controller with 3 Sensor auto ON After Tank Level Down,auto Off After Tank Level Full , with float switch of approved make as required by the site engineer. (wiring included 6 Core 0.75 sqmm / cat 6 cable with 25mm dia PVC conduit).	EACH	2		-
	26	Providing,Supply & fixing puddle flange with GI pipe to under ground sumps & OHT as per design drawing.				-
40	26.1	40mm	EACH	1		-
41	26.2	50mm	EACH	1		-
42	26.3	65mm	EACH	6		-
43	26.4	100mm	EACH	4		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
44	27	Providing,Supply, installation, testing and handing over of approved brand of Non-Pressure Heat Pump Model: PTS- SK22KP or Eqv having heating capacity of 22 kW with 1 compressor, 1 fan with- which is provided with a micro-processor-based Temp / time programmable CPU unit 550 lph capacity, With Mild Steel hot water storage tank of capacity 3000 Liters (Tank Cell 4mm thickness) with internally sandblasted & Rockwool, Internally Epoxy Coated and with necessary nozzles, gauges, drain,inlet / outlets for non pressurized application (BIS approved) with Return Pump with all the necessary support stand etc.complete. Including Solar Pannel - Flat Plate Collectors (FPC) , toughened glass cover over a selectively coated absorber plate with copper riser and header tubes-16 Nos with all necessary Fittings, NRV, valve, all lead and lifts Complete, and as directed by engineer in Charge.	EACH	1		-
45	28	Providing,Supply, installation, testing and handing over of approved brand of Non-Pressure Heat Pump Model: PTS- SK22KP or Eqv having heating capacity of 22 kW with 1 compressor, 1 fan with- which is provided with a micro-processor-based Temp / time programmable CPU unit 550 lph capacity, With Mild Steel hot water storage tank of capacity 5000 Liters (Tank Cell 4mm thickness) with internally sandblasted & Rockwool, Internally Epoxy Coated and with necessary nozzles, gauges, drain,inlet / outlets for non pressurized application (BIS approved) with Return Pump with all the necessary support stand etc.complete. Including Solar Pannel - Flat Plate Collectors (FPC) , toughened glass cover over a selectively coated absorber plate with copper riser and header tubes-16 Nos with all necessary Fittings, NRV, valve, all lead and lifts Complete, and as directed by engineer in Charge.	EACH	1		-
	29	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				-
46	29.1	25mm dia. (Screwed end)	EACH	2		-
47	29.2	32mm dia. (Screwed end)	EACH	2		-
48	29.3	40mm dia. (Screwed end)	EACH	2		-
49	29.4	50mm dia. (Screwed end)	EACH	2		-
50	29.5	65mm dia. (Screwed end)	EACH	1		-
	30	Providing,Supply and fixing in position, the following ' Y ' Strainer with necessary unions, bolts,nuts etc complete. (Near OHT) LEHRY / EQ.				-
51	30.1	50mm dia (Flanged end)	EACH	2		-
52	30.2	40mm dia (Flanged end)	EACH	1		-
53	30.3	80mm dia (Flanged end)	EACH	1		-
	31	Providing,Supply and fixing of Gun Metal Ball Cock (Float Valve)with heavy duty PVC float of approved make LEHRY / EQ.				-
54	31.1	25mm dia.	EACH	3		-
55	31.2	32mm dia.	EACH	1		-
56	32	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	Each	11		-
	33	Providing and fixing Unplasticised Polyvinyl Chloride (uPVC) pipes , for Soil and Waste water line and Rain Water Down Take, including all uPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step uPVC solvent cement, trenching in all type of soil, refilling & testing of joints, with all lead and lifts complete as per direction of Engineer in Charge. Internal & Shaft External work (Pressure Class -6 Kg/cm ²)				-
57	33.1	50mm nominal dia pipes	RMT	130		-
58	33.2	75(80)mm nominal dia pipes	RMT	675		-
59	33.3	110(100)mm nominal dia pipes	RMT	810		-
60	33.4	160mm nominal dia pipes	RMT	100		-
61	34	Providing and placing on terrace (at all floor levels) polyethylene water storage tank , IS : 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.	Lts	1000		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
62	35	Providing and fixing Liquid soap dispenser made of Stainless steel with all concealed fitting arrangements & all necessary accessories complete - Class Economy	NO'S	6		-
63	36	Providing and fixing Soap dish wired with 200mm width made of Stainless steel with all concealed fitting arrangements & all necessary accessories complete - Class Economy	NO'S	6		-
	37	Providing and fixing Heavy body of concealed stop cock suitable Range: Allied Items, with Exposed set for concealed stop cock made of Stainless steel with all concealed fitting arrangements & all necessary accessories				-
64	37.1	for 20mm pipe line (Code:ALD-CHR-089CQT+Code :CQT-CHR-23083K)	Set	68		-
65	37.2	for 25 mm pipe line (Catalogue No: PME-6012)	Set	15		-
66	37.3	Supply and fixing of approved make water meter inside the chamber size 450x 450 x 450 deep in CM 1:4 over a bed of 100mm PCC 1:4:8 with inside and outside plastered smooth in CM 1:4 12mm thick with lockable frame and cover (wt 10kg). 40 mm Cold Water Flow Meter Screwed End Class B. Conforms To ISO 4064. . (Dashmesh / Lehary.)	EACH	2		-
67	37.4	Supply and fixing of approved make water meter inside the chamber size 450x 450 x 450 deep in CM 1:4 over a bed of 100mm PCC 1:4:8 with inside and outside plastered smooth in CM 1:4 12mm thick with lockable frame and cover (wt 10kg). 32 mm Cold Water Flow Meter Screwed End Class B. Conforms To ISO 4064. . (Dashmesh / Lehary.)	EACH	3		-
		EXTERNAL DRAINAGE WORKS				-
68	38	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm 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 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 75 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) With common burnt clay (non modular) bricks of class designation 3.5	EACH	1		-
69	39	Extra for depth for manholes : above 75cm to 150cm	EACH	1		-
70	40	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:	EACH	20		-
71	41	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 600X850 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets : With common burnt clay (non modular) bricks of class designation 3.5	EACH	35		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
72	42	Extra for depth beyond 45 cm up to 100cm of brick masonry chamber : For 600x850 mm size With common burnt clay (non modular) bricks of class designation 3.5	EACH	35		-
	43	Providing and fixing Sewer (SWR) pipes , including all fittings, This includes jointing of pipes & fittings with one step solvent cement, Earth work excavation (trenching) up to depth of 90cm, refilling, Screed concrete casing & testing of joints complete as per direction of Engineer in Charge. Note: the cost to include for any disturb or repair of existing plumbing or electrical line with necessary material and labour (Pressure Class -6 Kgf/cm2)				-
73	43.1	75mm nominal dia pipes	RMT	50		-
74	43.2	110mm nominal dia pipes	RMT	100		-
75	43.3	150mm nominal dia pipes	RMT	300		-
76	44	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay (non modular) bricks of class designation 3.5.	EACH	15		-
	45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. Earthwork in excavation up to depth of 90cm, including R.C.C screed casing and refilling of earth making good etc. Note: the cost to include for any disturb or repair of existing plumbing or electrical line with necessary material and labour External work				-
77	45.1	32 mm nominal dia Pipe	RMT	1		-
78	45.2	40 mm nominal dia Pipes	RMT	200		-
79	45.3	50 mm nominal dia Pipes	RMT	200		-
80	45.4	65 mm nominal dia Pipes	RMT	50		-
81	46	Providing, Supply and commissioning of Domestic water Submersible PUMP of 440 V, 50 Hz 3phase with necessary gate valves, check valves, float valve etc., complete with suitable L & T starter. Delivering water from U.G sump to Overhead tank 7 lps . (the wiring shall be done by a separate agency). 1 SET= 1 Working + 1 stand by. GRUNDFOSS / EQ. NON RETURN VALVE, L&T STARTER	SET	2		-
82	47	Providing, Supply & fixing of FRP manhole frame with cover to U.G. Sump . 600x600mm size (Heavy duty frame & cover). SFRC / EQ.	EACH	12		-
	48	Construction of conical manhole with 230mm best quality table moulded bricks in CM 1:6, 500mm dia at top and 1200mm dia at bottom, over a bed of 250mm thick PCC 1:4:8, walls plastered smooth inside and outside in CM 1:6 for 20mm thick. The rate shall include for necessary excavation in all sorts of soil including benching and channelling in PCC 1:2:4. Providing, Supply and fixing Heavy duty SFRC R.C.C. frame and cover and steps etc., & complete. for standard manhole.				-
83	48.1	Depth upto 2mt	EACH	1		-
84	49	Providing and fixing PTMT grating of approved quality and colour 125mm dia	EACH	10		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
85	50	Providing, Supplying and fixing of FRP grating of 30mm thick panel having mesh size : 38mm X 38mm square mesh, Bar thickness : 8mm throughout, 15mm at borders & 14mm having property of non slippery i.e. anti skid and chemical resistance, neatly finished including the cost of material, transportation etc. as directed by Engineer Incharge. Corners of the grating should be raised by approximately 50mm for easy handling and placing.	Sqm	25		-
86	51	Supply and Laying of RCC Pipe-NP2 Class designed for light-duty applications like drainage and irrigation, include a thickness range of 25 mm to 55 mm for pipes from 150mm dia, and a concrete grade M30. as per Indian Standards , including sand bedding, 100mm thick M15 concrete casing all round the pipe , Leveling to slope as required,etc., and labour complete, with all lead and lifts complete and as directed by engineer in charge.	RMT	20		-
87	52	Supply and Laying of RCC Pipe-NP2 Class designed for light-duty applications like drainage and irrigation, include a thickness range of 25 mm to 55 mm for pipes from 300mm dia, and a concrete grade M30. as per Indian Standards ,100mm thick M15 concrete casing all round the pipe , Leveling to slope as required,etc., and labour complete, with all lead and lifts complete and as directed by engineer in charge.	RMT	20		-
88	53	Constructing storm water recharging pits in pre cast rings laid to a depth of minimum 3.0 mtrs , with 300 mm thick sand cushion externally , internally filled with coarse aggregate ranging from 80 mm to 40 mm in equal proportions with pre cast slab at top able to lift during maintenace , provisions of drain connections all leads and lifts INCLUDING EXCAVATION in all king of soil AND BACKFILLING AS REQUIRED BY THE SITE CONDITION, complete. Diameter of recharging pit 2000 mm clear internal space , aggreaqtes to be filled to a height of 450 mm with borewell deep recharge.	EACH	2		-
	54	Providing and fixing GI pipe complete with GI fitting, Union, Valve, Earthwork in excavation up to depth of 90cm, including 75mm thick M15 concrete casing all round the pipe , Leveling to slope as required,etc., and refilling of earth making good etc. Note: the cost to include for any disturb or repair of existing plumbing or electrical line with necessary material and labour with all lead and lifts complete and as directed by engineer in charge. External work				-
89	54.1	80mm	RMT	300		-
90	54.2	100mm	RMT	10		-
91	54.3	150mm	RMT	10		-
		TOTAL AMOUNT FOR PART-B PLUMBING WORKS EXCLUDING TAX				-



BANK NOTE PAPER MILL INDIA PRIVATE LIMITED

Registered & Corporate office: Administrative Office Building Paper Mill Compound, Entry Gate 1, Note Mudran Nagar, Mysore - 570003

E-tender No. BNPM/NCB/CISF INFRA/389/2025-26 dated 26.11.2025

Schedule of Price (Financial Bid)

Name of work : CONSTRUCTION OF CISF INFRASTRUCTURE AT BNPM PREMISES, MYSORE

Name of the Firm (Mandatory Filed)

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
PART-C ELECTRICAL WORKS						
	C	ELECTRICAL WORKS				
		INTERNAL ELECTRICAL WORKS				
1	1	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Short point up to 3Mtr from tapping point to out let via switch	Point	204		-
2	2	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch	Point	423		-
3	3	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Long point above 6Mtr up to 10Mtr from tapping point to out let via switch	Point	753		-
4	4	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Two outlet in a row, above 3Mtr up to 6Mtr from tapping point to out let via switches	Point	60		-
5	5	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Three outlet in a row, above 6Mts up to 10Mtr from tapping point to out let via switches	Point	45		-
6	6	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-2Way	Each	241		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
7	7	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 3Way	Each	488		-
8	8	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 4-5Way	Each	94		-
9	9	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 6Way	Each	132		-
10	10	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 8 Way	Each	282		-
11	11	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 10-12Way	Each	506		-
12	12	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 1 to 2 Module	Each	241		-
13	13	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 3 Module	Each	488		-
14	14	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 4 Module	Each	94		-
15	15	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 6 Module	Each	132		-
16	16	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 8 Module	Each	282		-
17	17	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 10-12 Module	Each	506		-
18	18	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6Amps one way Switch	Each	2014		-
19	19	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6Amps Two way Switch	Each	22		-
20	20	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6Amps 3way socket	Each	529		-
21	21	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. Stepped Fan Regulator 2module.	Each	344		-
22	22	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 32Amps DP switch	Each	25		-
23	23	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6/16Amps universal socket	Each	47		-
24	24	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 16Amps one way switch	Each	22		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
25	25	Supplying and fixing of metal clad industrial plugs and sockets. 2pole+earth 250V PLUG - 16A	Each	6		-
26	26	Supplying and fixing of metal clad industrial plugs and sockets. 3pole+earth 440V PLUG - 32A	Each	4		-
27	27	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. Telephone and TV socket	Each	16		-
28	28	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable. 2 Pair	Mtr	300		-
29	29	Supplying and drawing PVC insulated gas injected physical foam jelly flooded co-axial TV cable.RG-6.	Mtr	300		-
30	30	Supplyin and Fixing Metal Fan Box with Round Hook.	No	344		-
31	31	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. 19/20mm dia 2mm thick	Mtr	6100		-
32	32	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. 25mm dia 2mm thick	Mtr	7450		-
33	33	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. 32mm dia 2.5mm thick	Mtr	1080		-
34	34	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., by groove cutting in wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary. 19/20mm dia 2mm thick	Mtr	3050		-
35	35	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., by groove cutting in wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary. 25mm dia 2mm thick	Mtr	5725		-
36	36	Supplying heavy gauge PVC conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., by groove cutting in wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary. 32mm dia 2.5mm thick	Mtr	435		-
37	37	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS- 694:confirming to latest amendments. 1.5 sqmm	Mtr	5250		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
38	38	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 2.5 sqmm	Mtr	12540		-
39	39	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 4 sqmm	Mtr	1930		-
40	40	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 6 sqmm	Mtr	4600		-
41	41	Supplying and fixing regular MCB distribution boards on wall/ wood board I flush mounting using required clamps,i bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase I 3• phase I single door with powder coated painting. Made out of 14 SWG MS enclosure III - Double Door 4 Way TP & N	Each	11		-
42	42	Supplying and fixing regular MCB distribution boards on wall/ wood board I flush mounting using required clamps,i bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase I 3• phase I single door with powder coated painting. Made out of 14 SWG MS enclosure III - Double Door 6 Way TP & N	Each	11		-
43	43	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps SP	Each	378		-
44	44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 32Amps TPN	Each	4		-
45	45	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 40Amps TPN	Each	14		-
46	46	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 50-63Amps TPN	Each	54		-
47	47	Supplying, fixing and wiring Residual current Circuit Breaker [RCCB] 240/450V up to 300mA sensitivity on existing wood/panel board 32-40 Amps 4 pole	Each	22		-
48	48	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 4 core 16 sqmm Aluminium cable	KM	0.6		-
49	49	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 3.5 core 95 sqmm Aluminium cable	KM	1.3		-
50	50	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 2.5 sqmm to 25 sqmm	KM	2.5		-
51	51	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 35 sqmm to 95 sqmm	KM	1.3		-
52	52	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia	Each	8		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl. of GST) in Rs.	Total amount (Excl. of GST) in Rs.
53	53	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 32mm dia	Each	8		-
54	54	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel	Each	28		-
55	55	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 95 sqmm Long Barrel	Each	16		-
56	56	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc.using 40mm dia 2.9mm thick 2.5m long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	No	23		-
57	57	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip	Mtr	160		-
58	58	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI plate	Each	9		-
59	59	Supply of round/square recess/surface mounted rolling type LED Down light withW GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 12W	Each	196		-
60	60	Supply of round/square recess/surface mounted rolling type LED Down light withW GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 18W	Each	45		-
61	61	Supplying offeet - PVC Batten with integrated LED tubeW with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fitting 1 x 2'-10 w	Each	30		-
62	62	Supplying offeet - PVC Batten with integrated LED tubeW with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fitting 1 x 4'- 22 w	Each	780		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
63	63	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 7 W, 6500K	Each	63		-
64	64	Supplying of recess mounting non integral typeLED W luminaire comprising of pressure decast/extruded aluminium housing, with spring loaded fase ceiling clamps, Power LEDs with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, , THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/ CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.LED modular down light 2'x2' - 36watt	Each	6		-
65	65	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture withW System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 40watts	No	6		-
66	66	Supplying and fixing of LED Bulkhead of 10W with IP65 protection and IK 08 impact resistance suitable for surface and wall mounting applications.	No	7		-
67	67	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Each	73		-
68	68	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 15" Sweep (450mm)	Each	8		-
69	69	Supplying capacitor type Ceiling Fan with down rod blades, shackle, canopies etc, for operation on 230V , 50 cycles . Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" Sweep (1200 mm) Regular model	Each	344		-
70	70	Supplying & Fixing of 70-150 Watts lamp holder 2 Pin	Each	181		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
71	71	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders	Each	1046		-
72	72	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.	Each	344		-
73	73	Fixing one exhaust fan after making a suitable notch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.	Each	79		-
74	74	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length	Each	19		-
75	75	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	19		-
76	76	Fabricating supplying and mounting MS box made out ...SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour etc., complete 16SWG	Sq.cms	530000		-
77	77	Supplyingamps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 250Amps 4x30x10mm Aluminum Strips	Mtr	28		-
78	78	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm	Mtr	35		-
79	79	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint 50x100x50x6mm C channel	Mtr	51		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
80	80	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Poles should have protection for Short-Circuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism. FOUR POLE 125Amps 25kA	Each	4		-
81	81	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps DP	Each	6		-
82	82	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32Amps TPN	Each	4		-
83	83	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy	Each	4		-
84	84	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C	Each	12		-
85	85	Supplying, fixing and wiring 50/5 to 400/5Amps 15VA burden Current Transformer. Class 0.5 accuracy with Tape Wound	Each	12		-
86	86	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor Upto 12.5 HP	Each	4		-
87	87	Fixed Camera Specifications: • Lens type: Bi-focal auto iris with 10x digital zoom • Mode :Day/Night • Image size: 720x486 (NTSC) • Streaming: High speed • Weather Proof: IP 66 compliant • Network Protocol: TCP/IP should be compliant of any other protocol required. • Connectivity : Cat 6 / Optical fibre • Ethernet:10Base-t/100Base-TX(RJ45) • Power source : both self powered and externally powered	Each	14		-
88	88	Supplying and drawing UTP-CAT 6E LAN cable.	Mtr.	3000		-
89	89	Supplying & Fixing of switch mounting rack with power manager & Cable manager as per standard specification 9U with 450mm depth	Each	2		-
90	90	Supplying fixing of Network Switches. 24 port 10/100 Switch	Each	2		-
91	91	Supplying & fixing of ..mtrs. Cat 6Patch Cable. 2Mtr	Each	14		-
92	92	Supplying heavy gauge PVC Consealed conduit pipedia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. 25mm dia 2mm thick	"	2150		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
93	93	Supplying & Fixing of Patch panel for LAN cabling .24 Port 10/100 patch panel	Each	2		-
94	94	Supply, Installtion, Testing and Comissioning - 16 Channel 16 HDDs RAID NVR with Support Ultra 265/H.265/H.264 video formats and support Up to 12 Megapixels resolution recording with 16 SATA HDDs, Up to 16TB for each HDD, Hot-Swap with ANR technology to enhance the storage reliability when the network is disconnected. NVR to have Support cloud upgrade and Support N+1 Hot spare - The price should include the necessary mounts and brackts - The Price should include the necessary Mounts and brackets	Each	2		-
95	95	Supply, Installation, Testing and Commissioning of 6-core OFC - Armoured outdoor cable (SM) ---- etc., complete including all lead and lift and work to be executed as per the specification and engineer -in-charge of the work.	Mtr	300		-
EXTERNAL ELECTRICAL WORK						
96	96	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutrated Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 3.5 core 120 sqmm Aluminium cable	KM	0.5		-
97	97	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 120 sqmm to 300 sqmm	KM	1.3		-
98	98	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 120 sqmm Long Barrel	Each	8		-
99	99	Supplying offeet - PVC Batten with integrated LED tubeW with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fighting 1 x2'- 10 w	Each	14		-
100	100	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 12 W, 6500K	Each	100		-
101	101	Supplying and fixing regular MCB distribution boards on wall/ wood board I flush mounting using required clamps,i bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase I 3• phase I single door with powder coated painting. Made out of 14 SWG MS enclosure II - Double Door 12 Way SP & N	Each	3		-
102	102	Supplying, fixing and wiring Residual current Circuit Breaker [RCCB] 240/450V up to 300mA sensitivity on existing wood/panel board 16-25 Amps 2 pole	Each	3		-
103	103	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutrated Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 2 core 10 sqmm Aluminium cable	KM	1.6		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
104	104	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture withW System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 25watts	No	3		-
105	105	Supply and Installation of 24"LED Monitor The rate shall include all mounting accessories complete as required ---- etc., complete including all lead and lift and work to be executed as per the specification and engineer -in-charge of the work.	Each	2		-
106	106	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for UPS sealed maintainance free battries 150 AH capacity	each	4		-
107	107	Supplying, erecting, testing & commissioning of Off-Line UPS system suitable for operational on 230V, 50Hz, A/C supply, with all accessories complete and Excluding battries and wiring complete. 2 kVA Off Line UPS	each	2		-
108	108	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip 600x600x3mm GI plate	Each	2		-
109	109	Supplying offeet - PVC Batten with integrated LED tubeW with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fighting 1 x4'- 20/22 w	Each	55		-
110	110	Supply, installation, erection, testing and commissioning of DAS Compatible RMU:- 1 No.of 11kV 350 MVA 630A drawout type,manually operated VCB 's as incomer &2 nos. 11kV 350MVA 630A drawout type manually operated VCB's as outgoing , CTs/PTs, ammeter, voltmeter, selector switches, Annunciator windows of 8 windows,pushbuttons,indicating lamps, 20/C +1E/F relay, required no of VAA relays and other standard componenets complete as per the schematic diagram.Panel shall be out door type made out of 14G MS sheet & shall confirm to IP54 classification the unit should be mounted on PCC pedestral , rate shall include cost of PCC pedestral. (Refer schematic for the same) The above should be as per CHESCOM requirement	No	1		-
111	111	Supply, installation, erection, testing and commissioning of 11kV 350 MVA 630A drawout type,manually operated VCB 's (10D) CTs/PTs, ammeter, voltmeter, selector switches, Annunciator windows of 8 windows,pushbuttons,indicating lamps, 20/C +1E/F relay, required no of VAA relays and other standard componenets complete as per the schematic diagram.Panel shall be out door type made out of 14G MS sheet & shall confirm to IP54 classification the unit should be mounted on PCC pedestral , rate shall include cost of PCC pedestral. (Refer schematic for the same) The above should be as per CHESCOM requirement	No	1		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
112	112	LT Metering Cubicle at Low Tension for 50KW to 150KW having specification and design as per the prototype approval (Excluding Meter cost and modem cost)	No	2		-
113	113	CT PT Operated ETV Meter 0.2s Accuracy class with ABT feature and DLMS protocol with ToD with RS232 Port UNIDIRECTIONAL (Used for HT Installation, LT Metering Cubicle (50-150KW)	No	2		-
114	114	Supply, erection, testing and commissioning of 250 KVA 5Star rated Aluminium wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, , oil level indicator with + 5% to -10% Steps of 2.5%, HT and LT Cable Entry Box Type, stacked core with oil as per IS:1180(Part-1):2014 with all standard accessories as per latest IS standard No:2026/1977 and IS:335, technical specification & ESCOM approved.	Each	1		-
115	115	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x6mm GI strip	M	100		-
116	116	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm Copper strip	Mtr	100		-
117	117	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm Copper plate	Each	12		-
118	118	Supply & Making of 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations - INDOOR & OUTDOOR JOINTING KIT & confirming to the GTP. 3x95Sqmm.Outdoor	Set	2		-
119	119	Supply & Making of 11KV (E) Extruded "X" linked for tubing & moulded & cross-linked components using Heat Shrink Stress Control tube having High Permittivity XLPE Terminations - INDOOR & OUTDOOR JOINTING KIT & confirming to the GTP. 3x95Sqmm.Indoor	Set	4		-
120	120	Supplying & laying of 11 kV, 3 Core, XPLE HTUG Cable with pressure extruded inner sheeth, ROUND WIRE ARMoured as per IS-7098 (Part-2) Armouring wires dia and Resistivity as per IS-3975. 95 Sqmm, (54 GI Wires - 2.5 mm Dia)	KM	1.6		-
121	121	Providing chain link fencing 50 mm size of 8 guage properly stretched between rectangular Poles and fixed with suitable bolts & nuts, the free ends shall be welded to the Pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts, cutting, bending wherever necessary, wastage and lapping etc., complete as per the direction of the engineer incharge for work including two coats of approved quality paint over one coat of primer paint.	Sqmt	150		-
122	122	Fabricating supplying and mounting MS box made out ...SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete 14SWG	Sq.cms	196000		-
123	123	Supplyingamps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenoliciFRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 400Amps 4x50x10mm Aluminum Strips	Mtr	15		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
124	124	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint 75x75x6mm	Mtr	30		-
125	125	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint 75x150x75x6mm C channel	Mtr	30		-
126	126	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Therm IS-13947. (Icu=100% lcs). In 4P MCCB, all Poles should have protection for Short-Cicrcuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism.FOUR POLE320-400Amps 50kA	Each	1		-
127	127	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% lcs). In 4P MCCB, all Poles should have protection for Short-Cicrcuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism. FOUR POLE100Amps 25kA	Each	2		-
128	128	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% lcs). In 4P MCCB, all Poles should have protection for Short-Cicrcuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism. FOUR POLE 160Amps 25kA	Each	2		-
129	129	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/ manual reset facility suitable to mount on DIN rail/ flush mounting on panel board	Each	1		-
130	130	Suppiying and fixing of Shunt trip suitable for MCCB.CBCT	Each	1		-
131	131	Supplying,fixing and wiring 1000/5A to 1600/5A 15VA Burden class 1 Current Transformer	Each	3		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
132	132	Fabricating supplying and mounting MS box made out ...SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete 16SWG	Sq.cms	700000		-
133	133	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint 50x50x6mm	Mtr	16		-
134	134	Supplying, fixing and wiring Automatic Power Factor controller fully, static units controlled by 14 stage microprocessor operation, relays LED display, self programming function for power stages and operating logic checking facility for healthy and efficient of each individual capacitor bank, measurement of network harmonics with indication when limit values are exceeded, Comprehensive displays with large, three place LED display, Long term memory for settings, protection for over voltage, power factor correction fault and no voltage, to connect I disconnect banks, with automatic recognition or with standard programs.	Each	1		-
135	135	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery	KVAR	70		-
136	136	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 25 Amps	Each	3		-
137	137	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 40 Amps	Each	3		-
138	138	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutrated Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 3.5 core 300 sqmm Aluminium cable	KM	0.1		-
139	139	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 300 sqmm Long Barrel	Each	8		-
140	140	STREET LIGHTING PANEL-Fabricating, Supplying & Mounting M.S. Box made out of 16 SWG of size 700x750x220mm suitable for floor / wall mounting, fully weather proof with provision for better heat desipation, with two chambers & window for energy meter, provided with hinged front cover, two inside doors, with tamper proof locking arrangments, suitable size clamps with necessary cable entry pipe with gland and box should be finished with two coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. The box should be mounted on M.S.angle iron of size 40x40x6mm (total length 4.7 mtr) with 1:2:4 concreting (0.25x0.75x0.9 mtr) including coping. provision for housing 3 phase energy meter, suitable size bus bar, 100 A cut out (3 Nos), with timer (3-120sec) & contactorc) (60-70Amps), 63 A MCB TPN (1 No), 2 Nos 32 A TPN MCB on 4mm thick hylum sheet, wiring with suitable size copper wire & lugs. The box should be earthed with pipe type earthing.	Set	1		-

Sl.No	BOQ No.	Description	Unit	QTY	Unit Rate (Excl.of GST) in Rs.	Total amount (Excl. of GST) in Rs.
141	141	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each	10		-
142	142	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture withW System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 70watts	No	10		-
143	143	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutrated Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 4 core 10 sqmm Aluminium cable	KM	0.5		-
144	144	Earth work excavation for cable trench in all kinds of soil/rock of 0.5 to 0.75 Mtr. Width and Depth upto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr,laying of RCC hume pipe for cable laying at the road crossing or wherever necessary as per site conditions and including sand cushioning , protective brick covering and refilling the trench and also including necessaryDanger Boards, Sign Boards and Lighting, Using sight Rails and MS Embossed Plates for route marking at every 100 Mtr wherever necessary as directed (as per standard)	Mtr	1000		-
145	145	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers 32Amps	Each	3		0.00
146	146	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers 63Amps	Each	2		0.00
147	147	Supplying, fixing and wiring electronic 5 to 20Amps single phase Class-1 Accuracy with Temper Proof Energy Meter	Each	3		0.00
148	148	Supplying, fixing and wiring electronic 10 to 40 Amps three phase 4 wire class-1 Accuracy Energy Meter	Each	2		0.00
		TOTAL AMOUNT FOR PART-C ELECTRICAL WORK EXCLUDING GST				-