

Name of Work :- New Construction of 30 Bedded Community Health Center at.Thangadh, Ta.Thangadh, Dist.Surendranagar.				
Detail Technical Specification				
Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
1	Ch-4 It.code.04001B	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	CMT	Section-04, Exca Item No. - 4.0.0.1
2	Ch-4 It.code.04002B	Excavation for foundationFor depth from 1.5 m to 3.0m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	CMT	Section-04, Exca Item No. - 4.0.0.2
3	Ch-4 It.code.04002D	Excavation for foundation 1.5 mt. to 3.0 mt. depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto any lead & lift (D) Soft rock not requiring Blasting	CMT	Section-04, Exca Item No. - 4.0.0.3
4	Ch-4 It.code.4006	Filling available excavated earth (excluding rock)in trenches, plinth,sides of foundations etc. in layers not exceeding 20 cm. in depth consolidation each deposited layer by ramming and watering.	CMT	Section-04, Exca Item No. - 4.12.
5	Ch-4 It.code.04009A	Filling in plinth with chhara under floors including watering, ramming, consolidating and dressing etc. completed	CMT	Section-04, Exca Item No. - 4.0.0.4
6	Ch-4 It.code. 4008A	Filling in foundation and plinth with murrum or selected soil in layers of 20cm thickness including watering ramming and consolidating etc. complete	CMT	Section-04, Exca Item No. - 4.0.0.4
7	Ch-22 It.code.22006	Applying general insecticide pest control treatment to floors, cupboards etc including labour material etc. complete. Using Heptachloride 20 EC. As Per 6113_pests Consentration Weight 0.50 percent is recommended one litre chemical emulsion dillute with 39 liter of water will give. Total dillute concentration will be 40 litre inclusive of one litre chemical emulsion appication 0.5 Litre chemical / Sqm of surface is recommended as per I.S	SMT	The Rate Shall be
8	Ch-27 It.code.27006A	Providing and Spreading RUBBLE SOLING in 20 TO 23 CM Thick layers including hand packing and compacting,Royalty Charges Etc completed	CMT	The Rate Shall be
9	Ch.5-It.code. 5010AA (5.3.13)	Provdg. & laying cement concrete 1:2:4 (1cement:2 corse sand :4 hand broken stone aggregate 20 mm nominal size) and curing complete including cost of form work in (A) Foundation and plinth	CMT	Section-05, Plain No. - 37 Item No. - 5.3.13
10	R.A.	Providing and laying controlled cement concreteM-30 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete. (more than 10 ton) (Design Mix)	CMT	The Rate Shall be
11	R.A.	Providing and laying controlled cement concreteM-25 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. (more than 10 ton)	CMT	The Rate Shall be
12	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: Up to Plinth Level.(C) Column Design Mix	CMT	The Rate Shall be

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13	R.A.	Providing, laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work.(B) Coping Design Mix	CMT	The Rate Shall be
14	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: Above Plinth Level. (A) Column (i) Ground Floor Design Mix	CMT	The Rate Shall be
15	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: Above Plinth Level. (A) Column (i) FIRST Floor Design Mix	CMT	The Rate Shall be
16	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: Above Plinth Level. (A) Column (ii) Terrace floor	CMT	The Rate Shall be
17	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (B) Lintel (i) Ground Floor Design Mix	CMT	The Rate Shall be
18	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (B) Lintel (ii) First Floor Design Mix	CMT	The Rate Shall be
19	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (B) Lintel (i) Terrace Floor Design Mix	CMT	The Rate Shall be
20	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Floor beam (i) Above Ground Floor Design Mix	CMT	The Rate Shall be
21	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Floor beam (ii) Above First Floor Design Mix	CMT	The Rate Shall be
22	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Floor beam (ii) Terrace Floor Design Mix	CMT	The Rate Shall be
23	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Whether shade (i) GROUND Floor	CMT	The Rate Shall be
24	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Whether shade (i) First Fl. Design Mix	CMT	The Rate Shall be
25	R.A.	Providing and laying controlled cement concrete M-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (C) Whether shade (i) Sixth Floor Design Mix	CMT	The Rate Shall be
26	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (D) R.C.C. slab (i) Ground Fl. Design Mix	CMT	The Rate Shall be

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27	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (D) R.C.C. slab (i) First Floor Design Mix	CMT	The Rate Shall be
28	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (D) R.C.C. slab (ii) Terrace Floor Design Mix	CMT	The Rate Shall be
29	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (E) Stair case (i) Ground Fl. Design Mix	CMT	The Rate Shall be
30	R.A.	Providing and laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: (E) Stair case (i) First Fl. Design Mix	CMT	The Rate Shall be
31	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: RCC wall up to Ground Floor Design Mix	CMT	The Rate Shall be
32	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: RCC wall First Floor Design Mix	CMT	Section-06, mason 51 Item No. - 6.13.(
33	R.A.	Providing, laying controlled cement concreteM-25 and curing complete including the cost of form work but excluding reinforcement for reinforced concrete work in: RCC wall Terrace Floor Design Mix	CMT	Section-06, mason 51 Item No. - 6.13.(
34	Ch.5-It.code.05014C +05016A	Providing TMT Bar FE 500/500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto any floor any height	Kg.	Section-06, mason 51 Item No. - 6.13.(
35	Ch.6-It.code. 06002BA 6.13	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/Sq. Cm. in foundation and plinth in cement mortar 1:6 (1 cement : 6 fine sand) Up to Plinth level. (B) Conventional	CMT	Section-06, mason 53 Item No. - 6.19.(
36	Ch.6-It.code. 06002BA + 06006B + 06007C2A	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/Sq. cm. in cement mortar 1:6 (1 cement : 6 fine sand) Above Plinth level (B) Conventional (i) Ground Floor	CMT	Section-06, mason 53 Item No. - 6.19.(
37	Ch.6-It.code. 06002BA + 06006B + 06007C2A	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/Sq. cm. in cement mortar 1:6 (1 cement : 6 fine sand) Above Plinth level (B) Conventional (i) First Floor	CMT	Section-06, mason 53 Item No. - 6.19.(
38	Ch.6-It.code. 06002BA + 06006B + 06007C2A	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg/Sq. cm. in cement mortar 1:6 (1 cement : 6 fine sand) Above Plinth level (B) Conventional (i) Terrace Floor	CMT	SECTION-17 Plastering and Pa Item No. - 17.58

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
39	CH.6-It.code. 06008A2A +06010B	Half brick masonry in common burnt clay building bricks having crushing strength note less than 35 Kg/Sq. Cm. in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level (B) Conventional (i) Ground Floor	SMT	SECTION-17 Plastering and Pa Item No. - 17.58
40	CH.6-It.code. 06008A2A +06010B	Half brick masonry in common burnt clay building bricks having crushing strength note less than 35 Kg/Sq. Cm. in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level (B) Conventional (i) First Floor	SMT	SECTION-17 Plastering and Pa Item No. - 17.58
41	Ch.17- It.code.17.60(ii) 17002B	Providing 15 mm. thick mala cement plaster in single coat on fair side of brick concrete walls for interior plastering upto floor two level and finished even & smooth plaster.(ii) Cement mortar 1:4 (1 cement : 4 sand) (i) Ground Floor	SMT	SECTION-17 Plastering and Pa 121 Item No. - 17.58
42	Ch.17- It.code.17.60(ii)+17.94(i)	Providing 15 mm. thick mala cement plaster in single coat on fair side of brick concrete walls for interior plastering upto floor two level and finished even & smooth plaster.(ii) Cement mortar 1:4 (1 cement : 4 sand) (ii) First Floor	SMT	SECTION-17 Plastering and Pa 121 Item No. - 17.58
43	Ch.17- It.code.17.60(ii)+17.94(i)	Providing 15 mm. thick mala cement plaster in single coat on fair side of brick concrete walls for interior plastering upto floor two level and finished even & smooth plaster.(ii) Cement mortar 1:4 (1 cement : 4 sand) (ii) Terrace Floor	SMT	SECTION-17 Plastering and Pa 121 Item No. - 17.58
44	Ch.17- It.code.17.58(1a)+17.91	Providing 10 mm thick mala cement plaster on ceiling and soffits of stairs upto floor two level, in cement mortar (1:3) (1 cement : 3sand) (i) Ground Fl.	SMT	SECTION-17 Plastering and Pa Item No. - 17.95
45	Ch.17- It.code.17.58(i) 17.91+17.94	Providing 10 mm thick mala cement plaster on ceiling and soffits of stairs upto floor two level, in cement mortar (1:3) (1 cement : 3sand) (i) First Fl.	SMT	SECTION-17 Plastering and Pa Item No. - 17.95
46	Ch.17- It.code.17.58(i) 17.91+17.94	Providing 10 mm thick mala cement plaster on ceiling and soffits of stairs upto floor two level, in cement mortar (1:3) (1 cement : 3sand) (i) Terrace Fl.	SMT	SECTION-17 Plastering and Pa Item No. - 17.95
47	Ch.17- It.code.17.95	20 mm thick sand faced cement plaster (Gutaka) on walls up to height 10 meters above ground level consisting of 12 mm thick backing coat of CM 1:3 (1 cement : 3 sand) and 8 mm thick finishing coat of CM 1:1 (1 cement : 1 sand) etc. complete. GF	SMT	Section-05, Plain No.- 39 Item No.
48	Ch.17- It.code.17.95+ 17.94(2)	20 mm thick sand faced cement plaster (Gutaka) on walls up to height 10 meters above ground level consisting of 12 mm thick backing coat of CM 1:3 (1 cement : 3 sand) and 8 mm thick finishing coat of CM 1:1 (1 cement : 1 sand) etc. complete.Extra over item 17.112 to 17.151 for pointing on walls on the outside at height more than 10metres from ground level for every additional height of 5 metres of part there of. - FF	SMT	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
49	Ch.17- It.code.17.95+ 17.94(2)	20 mm thick sand faced cement plaster (Gutaka) on walls up to height 10 meters above ground level consisting of 12 mm thick backing coat of CM 1:3 (1 cement : 3 sand) and 8 mm thick finishing coat of CM 1:1 (1 cement : 1 sand) etc. complete.Extra over item 17.112 to 17.151 for pointing on walls on the outside at height more than 10metres from ground level for every additional height of 5 metres of part there of. - Terrace Floor	SMT	Section-18, Paint No. - 136 Item N
50	It.code.5.4.18 no.5018	Providing throating or plaster drip and moulding to R.C.C. chhajja	RMT	Section-18, Paint No. - 136 & 137 18.59.
51	R.A.	Providing & Fixing the Chikenmesh - 20 guage(Crimp Jali) of approved size applying between the RCC and masonry junction in proper line, level and plumb with all material, labour, tools, tackles and equipment. Including providing and fixing the jali with nails, etc complete as directed by the site-in-charge.	SMT	Section-18, Paint No. - 136 Item N
52	Ch.19- It.code.19032	Applying two coats of Birla or Asian acrylic lapy (putty) & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	SMT	The Rate Shall be
53	Ch.18- It.code.18031	Providing and applying Wall painting (three coats) with plastic emulsion paint of approved brand and manufacture on under coated wall surface to give and even shade including throughly brushing the surface free from mortor droppings and other foreign matter and sand paperd smooth on new work to give an even shade.for all height	SMT	The Rate Shall be
54	Ch.19-It.code.19031	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete	SMT	Section-14, Pavin Page No. - 88 Ite
55	R.A.	Providing 20 mm thick water proof cement plaster using water proofing powder 1Kg/1bag of cement for all floors on brick / concrete wall work using water proofing materials in C M 1: 4 (1 cement 4 coarsse sand) including finishing with a floating coat of neat cement slurry etc complete for all floor. and shall be guaranteed for minimum period of 10 years after handing over the completed building by the main contractor to be finished as directed. Stamp paper guarantee 10 years to be furnished before receiving any payment from the client.	SMT	Section-14, Pavin Page No. - 98 Ite
56	R.A.	Providing and laying 18 mm thick polished granite stone machine cut in single piece (Max. available) in sill and jambs of Door, window, Ventilation frame laid over 10 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) and jointed with grey cement slurry with matching pigment incl. rubbing and polishing half rounding edge etc. complete colour and shed as approved by architect engineer in charge.	SMT	Section-14, Pavin Page No. - 96 Ite
57	Ch.14-It.code. 14022A	Providing and laying 24" X 24" full body Double Charge Vitrified glossy/ satin/ matte finish 8mm thick tile flooring including skirting/dado over 20mm (ave) base of C.M. 1:6 on new surfac or fixing on existing flooring by adhesive material incl. dismantaling of existing flooring and jointed with colour cement-slurry incl. finished with flush pointing & cleaning the surface etc. comp. for light shed.	SMT	Section-14, Pavin Page No. - 97 Ite
58	Ch.14-It.code. 14012A	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	SMT	Section-14, Pavin Page No. - 101 It
59	Ch.14-Item 14.29(B) 14008BA	Providing and laying Ceramic flooring tiles 300mm x 300mm in flooring treads of steps and landings laid on a Bed of 12 mm. Thick cement mortar 1:3 (1 cement : 3 coarse sand) pointing in white ceand jointed with white cement slurry.	SMT	The Rate Shall be
60	Ch.14-Item 14036	Providing and laying coloured glazed tiles of the size 300 mm x 200 mm x 8 mm / 300 mm x 450 mm x 8 mm in skirting, risers of steps and dedo on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) & jointed with white cement slurry.	SMT	The Rate Shall be

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61	R.A.	Providing and fixing Exterior grade paver tile pavement in approved pattern or Nitco or Pavit make or equivalent make in approved colour and pattern as per architectural drawing. The tiles to be laid using 20 to 25mm thick CM 1:3. The bedding plaster may vary in thickness as per site condition. The paver tiles to be pasted on the bedding plaster using grey cement. The tiles to be pasted leaving grooves of 4 to 5mm in between each successive tiles or/and gap may be provided in between the paver tiles to have gross joints / pebble stone as per architectural scheme. No extra will be paid for leaving the joints. The joints to be pointed using ready-made polymer jointsealer like tile mate of Roff or laticrete or equivalent. The type of pointing shall be ruled and sunk. The rate to include cost of all labour and material, cleaning, curing, etc., complete all as directed by Engineer-in-Charge.	SMT	The Rate Shall be
62	R.A.	Providing and laying Tactile flooring tiles 300mm x 300mm in flooring 12 mm. Thick cement mortar 1:3 (1 cement : 3 coarse sand) pointing in white ceand jointed with white cement slurry.	SMT	The Rate Shall be
63	R.A.	Providing and laying polished Granite slab flooring over 20 mm (average) base of cement mortar 1:6 (1 cement : 6 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete.18 mm thick	SMT	The Rate Shall be
64	R.A.	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm (of Jindal Section no:2459 @ wt.of 0.738 Kg/mt), horizontal Three track member size 92mm x 31.75mm x 1.30mm (of Jindal Section no:8688,@ Wt.1.07 Kg/mt), vertical member of size 92mm x 31.75mm x 1.50mm (of Jindal Section no:8933,@ Wt. 1.06 Kg/mt) with sliding shutters of horizontal member size 40 mmx18mm x1.29mm (of Jindal Section no:8947@ wt.of 0.456 Kg/mt), vertical member of size 40mm x 18mm x 1.29 mm (of Jindal Section no:8949 @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc. Providing and fixing Stainless steel mosquito net jali ,wire of I.S gauge designation 85-G with wire of 0.56 mm fix in aluminium door, window, ventilator shutters of any size, any shape with etc all complete at all floors/all levels/all heights as per the architectural drawings and the directions of Engineer-in-Charge. Actual laying installed Jali shall be measured.	SMT	The Rate Shall be
65	R.A.	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm(of Jindal Section no:4605,@ Wt 1.094 Kg / RMT), horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm (of Jindal Section no: 8687 @ wt.of 0.695 Kg/mt), vertical member of size 61.85 mm x 31.75mm x 1.30 mm (of Jindal Section no:8758 @ wt.of 0.0.659 Kg/mt) with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm (of Jindal Section no:8949 @ wt.of 0.456Kg/mt), vertical member of size 40mm x 18mm x 1.29mm (of Jindal Section no:8947 @ wt.of 0.456Kg/mt/ Section 8948, @ Wt. 0.457 Kg/mt) with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.Providing and fixing Stainless steel mosquito net jali ,wire of I.S gauge designation 85-G with wire of 0.56 mm fix in aluminium door, window, ventilator shutters of any size, any shape with etc all complete at all floors/all levels/all heights as per the architectural drawings and the directions of Engineer-in-Charge. Actual laying installed Jali shall be measured.	SMT	The Rate Shall be
66	Ch.10-It.code.11029	Providing and fixing standared extruded of alluminium section of size 63.50 x 38.10 x 1.95 mm(of Jindal Section no:4605, @ Wt 1.094Kg / RMT with colour anodized alluminium frame with 5 mm thick transparent bronze colour tinted float glass with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for.window	SMT	The Rate Shall be
67	it no 10.1 code no 10025AA	Providing and fixing M.S. grill of required pattern of windows etc. with M.S.. flats at required spacing and frame alround square or round headed bolts and nuts or by screws.including applying a priming coat of red lead paint and two coats of oil painting etc complete (A)Plain grill	Kg.	The Rate Shall be

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68	R.A.	Providing and fixing flush door both sides laminated shutter fabricated from 35 mm thick solid core malemine faced three layered pre laminated flat pressed wood based exterior grade bonded BWP/BWR synthetic resin having stamped IS 12823 grade I type II including three coats of lacquer polishing to exposed wooden surfaces and including providing and fixing of Floor door stopper & fixing of S.S finish decorative type heavy guage designs fixtures / fastening etc. complete As per drawings and design supplied by architect and instruction given by authority and E.I.C.	SMT	The Rate Shall be
69	R.A.	Providing & fixing in position alluminium pivoted Single Shutter door & partition with alluminium anodized hollow section frame of approved shade fabricated from alluminium standard section for outer frame size 101 mm x 44.5 mm (of app. wt. 1.30 kg/RMT) and door styles and top rial of alluminium section size 47.5mm x 44.5 mm (of app. wt. 1.14 kg/RMT) bottom rail & lock rail for door size 114mm x 44.5mm (of app. wt. 1.7kg/RMT) and providing rubber gasket and glazing clips around the glass all over including providing heavy handle, heavy lock, bracket, stoppers. 5 mm thick sheet ground glass (frosted or obscured on one side in Top panel) fixed with transparent silicon gasket & 12 mm thick particle board fixed clits including all required materials labours and equipments as per detailed drawing as directed.	SMT	The Rate Shall be
70	R.A.	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) 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 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 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, all as per direction of Engineer-In Charge. 35 MM	SMT	The Rate Shall be
71	R.A.	Providing and laying white glazed tiles equal size pieces for CHINA MOSAIC WATER PROOFING TREATMENT WITH BRICK BET BASE to terrace including cleaning the surface opening the creaks in " V " grooves pattened filling the same water proof cement mortar 1:1(1 Cement : 1 sand) including BRICK BAT as directed to have proper slope over a layer of C.M. 1:1 (1 Cement : 1 sand) including finishing the top surface with 15mm thick water proof cement plaster in C.M. (1:3) (1 Cement : 3 sand) and finishing with a floating coat of neat cement slurry using chemical water proofing compound as per manufactures specifications and standard specifications as per indian Water proofing or equivalent including curing at specified period as directed including finishing the top surface with equal size white glazed tiles pieces including round shape vata 100mm x 100mm size with filling white cement in joints, using chemical water proofing as per mfg., specification & standards with cleaning top surface using acid including drip moulding at the junction of vata & plaster etc..complete as directed by E.I.C.	SMT	The Rate Shall be
72	R.A.	Fabricating, supplying and fixing in position SS railing for staircase and balcony with brush finish and 304 grade as per Indian Standrd and detailed	RMT	The Rate Shall be
73	R.A.	Fabricating, supplying and fixing in position SS daso for staircase and balcony with brush finish and 304 grade as per Indian Standrd and detailed d	RMT	The Rate Shall be
74	er Mehsana S.O.R Ch.22-Sr. n	Providing and filling with good quality Cinder (steam coal) as directed by engineer in charge in sunks in layers of 15 cm thk, including watering, pla	CMT	The Rate Shall be
75	R.A.	Providing and fixing Sand which type Granite platform including supplying and fixing granite stone 18 mm thick mirror polished 1st quality Granite stones in top and side posiition and vertical strip at front over 25 mm thick polished kotah stone platform fixing in top and sides and itermediates supports fixing with cement mortar and adhesivee and finishing including cutting for fixing of sink any size (as directed by engineer incharge) at required position etc complete.	SMT	The Rate Shall be
76	R.A.	Providing and fixing Flexible Homogeneous Vinyl Flooring of With treatment of Plyurethane Reinforced Surface, Densely Compacted, Anti-Bactaril and fungicidal and Antistatic havng thickness of 2.00mm With weight of 3150 g/m2 with levelling, chemical adhasive for fixing, corner junction.	SMT.	The Rate Shall be
77	R.A.	Wall Painting (two coats) with antibacterial polyrethane epoxy paint approved brand and manufacture on internal walls to give an even and smooth surface. Thoroughly brushing the surface free from mortar dropings and other forein matter and sand prepared smooth.	SMT.	The Rate Shall be

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78	R.A.	Providing & applying two Component ,non slumping ,non-sagging, thixotropic epoxy bedding compound & adhesive compatible with for tiles for coving at radius of 25 mm or as directed by the architect's / Engineer-in-charge make it fit for tiles inclusive of Labour, material and Equipment etc. for all heights, location, shape & size as directed by the architect/Bank engineer incharge. (Actual Length shall be measured for payment.)	RMT	The Rate Shall be
79	R.A.	Providing and applying 2mm thick Texture Plaster Terre Palette (Earthen Textures, Spectrum, Coral or equivalent) incorporating fine filaments made of polymer and aggregating natural stone powder with making grooves on existing base coat of 18 mm thick smooth mala plaster etc. Complete Colour and shade as approved by Architect/ Engineer in charge for all floor all height.	SMT	The Rate Shall be
80	Ch.19 19002	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.	SMT.	The Rate Shall be
81	SOR ITEM CODE 16006	Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge & 15 mm Thick Densified edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% noncombustible as per B.S. 476 part IV, 100% humidity resistanceandalsohaving thermalconductivity0.043° w/m KC.for the best thermal Insulation . The Light weight calcium Silicate tile shall be of approved texture Fine fissured/ Spintone/Cosmos having NRC value of 0.5 & Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal gridof hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main ‘T’ runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross ‘T’ of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main ‘T’ at 600mm centre to centre to form agrid of 1200X600mm and secondary cross ‘T’ of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size	SMT	The Rate Shall be
82	RA	FLUSH PARTITION (lamineate finish) : Providing & fixing flush partition up to false ceiling ht (thickness of partition is 75 mm) having 12 mm thick Marin plywood IS 710 both side on aluminum framing. Aluminum framing size for vertical & horizontal support is 50 mm x 25 mm. All exposed surfaces finished with 1 mm thick laminate of approved shade without any air gap and grooving as per design. Necessary framing to be erected above false ceiling. No extra cost to be paid for the same. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with open able stud from partition Including all materials and labor etc. Make necessary grooves as per shown in drawing. All bottom ends are covered with Ghana teak bidding Patti finished with laminate Complete with all necessary hardware & adhesives as per details given in drawing and as per instructions of Architect/consultant/Engineer In charge. Contractor has to provide all necessary cut outs (race ways.) for Electrical works & no extra payment shall be made for it.	SMT	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
83	RA	Partly glazed partition: Providing & fixing full height partly laminated & partly glazed partition (up to false ceiling ht) using 12 mm thick marin plywood IS 710 both side on aluminum framing of guage 16 . Aluminum framing size for vertical & horizontal support is 50 mm x 25 mm .Grid of aluminum framing is 600 mm x 600 mm. All exposed surfaces finished with 1 mm thick laminate of approved shade without any air gap and grooving as per design. . Necessary framing to be erected above false ceiling (up to beam and slab height.) No extra cost to be paid for the same. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with open able stud from partition Including all materials and labour etc. For glazing Using of 12 mm thick toughen clear glass with proper crystal edges & with suggested frosted films on glass. Frosted film material rate is provided extra as per given cost in tender item. All joints are covered with Ghana teak bidding Patti finished with laminate. Complete with all necessary hardware & adhesives as per details given in drawing and as per instruction of Architect/consultant/Engineer In charge.	SMT	The Rate Shall be
84	RA	STORAGE BELOW PANTRY COUNTER :Providing & fixing full ht storage having size as per detail drawing , having depth of 600 mm, having skirting of 75 mm, with proper locks. 5 nos of vertical supports & 3 no of horizontal shelves made by 19 mm thick Marin ply, having shutters of 9 mm thick double sandwich ply with using 12 mm thick Marin ply for framing. All complete with proper Burma teak biding. Back ply is 12 mm Marin ply. All exposed & internal surfaces are covered with 1 mm thick laminate. External & internal joints covered with bidding Patti complete with laminate finish. All complete with proper hardware like locks, S.S. Screws, MS Nails, Magnets, table chains, cable manager SS 304 Handles of 250 mm and 100 mm dia etc. All Details as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer	SMT	The Rate Shall be
85	GWSSB Mech.Div SOR 2022-23	Drilling of bore hole in Alluvial Strata by Direct Rotary rig.(i) 250 / 300 mm dia bore hole	RMT.	The Rate Shall be
86	GWSSB Mech.Div SOR 2022-23	Providing and supplying ISI mark M.S. E.R.W. pipes with following diameter confirming to IS : 4270 - 1992 including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Medium Duty Plain Ended a) 200 mm dia	RMT.	The Rate Shall be
87	GWSSB Mech.Div SOR 2022-23	Providing and supplying following materials for borewellClamps made from M.S. plate with 3 holes on either side with nuts & bots of standard make and suitable size. (g) 900 mm X100 mm X 16 mm flat suitable to 200 mm dia. Pipe.	PAIR	The Rate Shall be
88	MR	Bore plug having 100 mm height made from M.S.plate with 3 holes at equal distance on circumference for nut-bolts type, locking arrangement with nuts-bolts & lock nuts of standard make etc. complete. [b] From 5 mm thick M.S. plate (For Top also) ii) Suitable for 200 mm dia pipe	NO	The Rate Shall be
89	MR	M.S. Bail plug having length 0.45 mtr. from medium class pipe as per I.S.S suitable for d) 200 mm dia pipe	NO	The Rate Shall be
90	MR	Lowering of E.R.W. pipes, pipes shall be lowered in such a manner as not to damage either the pipes or mud wall of the bore. If pipes are dropped	Rmt.	The Rate Shall be
91	MR	Cement grout seal The grout shall be 1:1. The largest size aggregate allowed is 10 mm pebbles. The grout will have to be in placed in such a way t	JOB	The Rate Shall be
92	MR	Bottom sealing of bore hole as per standard procedure	JOB	The Rate Shall be
93	MR	Gravel packing:Gravel packing shall be done slowly and sounding of gravel will have to be taken, after putting in every	CUMT	The Rate Shall be
94	MR	Lowering and removing of 100 mm dia dropline and 32 mm dia airline for development of each water bearing zones come across upto full depth of deep tubewell of size 200 mm / 250 mm / 300 mm dia for tubewell having depth 100 mtr. and above through suitable air compressor. The job is for complete period of development of tubewell. (Without charges for air compressor.)	JOB	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
95	MR	Charges for supplying, hiring Air compressor including all associated necessary expenditure. 1) 400 CFM / 100 PSI compressor	HR.	The Rate Shall be
96	MR	Pumping test of the tubewell by submersible pump of adequate capacity in all districts. B) D.R. Bore pump test with D.G. Set. 1) 1st 24 hrs. upto 30 HP	L.S	The Rate Shall be
97	MR	Welding in all positions with required number runs, for M.S /E.R.W. pipes internally including gauging wherever necessary, fixing appurtances and other accessories in connection with pipe laying work as per specification Butt Joints : Plate thickness i) 4 mm To 7 mm	L.S.	The Rate Shall be
98	MR	Heavy duty , MS /GI column pipe both end threaded having length approximate 3 mt. confirming to IS 1239 (Part-1) with coupling at one end and threaded protector at other end. 50 mm dia	Rmt.	The Rate Shall be
99	23004A	Providing and fixing to wall ceiling and floor 6.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(A) 20mm	Rmt	The Rate Shall be
100	23004B	Providing and fixing to wall ceiling and floor 6.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(B) 25mm	Rmt	The Rate Shall be
101	23004C	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(C) 32mm	Rmt	The Rate Shall be
102	23004D	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(D) 40mm	Rmt	The Rate Shall be
103	23004E	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(E) 50mm	Rmt	The Rate Shall be
104	23006B	Providing and fixing in position cowel went to pipes.(B) 75mm dia.	Each	The Rate Shall be
105	23006C	Providing and fixing in position cowel went to pipes.(C) 100mm dia	Each	The Rate Shall be
106	23028B1	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	Each	The Rate Shall be
107	23031A	Providing and fixing Gun metal check or non-return fullway wheel valve.(A) 15mm dia.	Each	The Rate Shall be
108	23031B	Providing and fixing Gun metal check or non-returnfullway wheel valve.(B) 20mm dia.	Each	The Rate Shall be
109	23031C	Providing and fixing Gun metal check or non-return fullway wheel valve.(C) 25mm dia.	Each	The Rate Shall be
110	23031D	Providing and fixing Gun metal check or non-return fullway wheel valve.(D) 32mm dia.	Each	The Rate Shall be
111	23031E	Providing and fixing Gun metal check or non-returnfullway wheel valve.(E) 40mm dia.	Each	The Rate Shall be
112	23037B2	Providing and fixing ball cock of approved. quality asdirected.(B) Abonite (ii) 50mm dia.	Each	The Rate Shall be
113	23039	Providing and fixing G.I. Rain water spout of 50mm dia. and 30cm. length.	Each	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
114	23055	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete.[A] 15 mm.	Rmt	The Rate Shall be
115	23056	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [B] 20 mm.	Rmt	The Rate Shall be
116	23061	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	The Rate Shall be
117	23062	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	The Rate Shall be
118	23063	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	The Rate Shall be
119	23064	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	The Rate Shall be
120	23065	Providing laying and jointing in true line and level 50mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt	The Rate Shall be
121	23066	Providing, laying and jointing in true line and level 160 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diameter x 210 mm length x 196 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Rmt	The Rate Shall be
122	23067	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	Rmt	The Rate Shall be
123	23068	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I screed down or hinged grating including the cost of cutting and making good the walls.	each	The Rate Shall be
124	22014	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	litre	

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
125	24006AA	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps. (A) 100mm x 100mm size P type.	Each	The Rate Shall be
126	24007BA	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete.(B) 150mm	Rmt	The Rate Shall be
127	24007CA	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete.(C) 250mm	Rmt	The Rate Shall be
128	24008A	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1- cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:3 (1- Cement : 3-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1 Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5-Coarse sand) (1) A type depth 0.90 Metre for 150mm diameter sewer.	Each	The Rate Shall be
129	24009A	(I) Extra rate for constructing B.B. masonry for every additional depth of 0.1M. or Part thereof over item No.24.27 (I) for depth from 0.9M to 1.5M.	Each	The Rate Shall be
130	24008B	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1- cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:3 (1- Cement : 3-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1 Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5-Coarse sand) (2) B type depth 1.50 Metre for 150mm diameter sewer.	Each	The Rate Shall be
131	24009B	(II) Extra rate for constructing B.B. masonry for every additional depth of 0.1M. GR Part thereof over item No.24.27 (I) for depth from 1.50M. to 2.25M.	Each	The Rate Shall be
132	24010	Providing and fixing cast iron steps of size 500mm x 150mm x 22.5mm and painting with two coats of Anti corrosive paint etc. complete.	Each	The Rate Shall be
133	24016AA	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1 cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.	Each	The Rate Shall be
134	24017A	Extra over items 24.44 for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber.(i) for 455mm x 610mm size.	Each	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
135	24016BA	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(ii) Inside dimensions 500mm x 700 mm and 450mm deep for pipe line with one or two inlets.	Each	The Rate Shall be
136	24017B	Extra over items 24.44 for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber.(ii) for 500mm x 700mm size.	Each	The Rate Shall be
137	24016CA	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/ Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1 cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(iii) Inside dimensions 600mm x 850 mm and 450mm deep for pipe lines with three or more inlets.	Each	The Rate Shall be
138	24017C	Extra over items 24.44 for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber.(iii) for 600mm x 850mm size.	Each	The Rate Shall be
139	RA-1	Providing and fixing on platform stainless steel Sink glossy ASIS 304 grade x 1mm thick with over all size 610x460mm & bowl size 560x410x200mm & SS Pillar cock with extention body like JAQUAR FUS-CHR-29021N including fixing the sink in platform & making good the same including the cost of PVC waste pipe of 32mm dia. and PVC waste coupline etc complete as directed by EIC.	Each	The Rate Shall be
140	RA-2	Providing and fixing Two way BIB cock with wall flange of genuine Jaquar ompany brand, in with model no FUS-CHR29041, water tap brand or approved ISI brand quality, fixing in pieline and testing the same... etc., complete., as directed by EIC	Each	The Rate Shall be
141	RA-3	Providing and fixing wash down water closet European type WC pan (Wall Hung) like JAQUAR CNS-WHT-961SPP- SIZE 365x545x360MM and P trap distance 23.5 cms with integral P trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 find sand) including providing and fixing of 1) Health Faucet hand shower heavy duty with SS braided hose 1.2 MT long pipe to water closet - JAQUAR ALD-CHR-573 with Single Piece Slim Concealed Cistern Body with Installations Kit & “S-Type” drain pipe connection set for Wall Hung WC (without Flush Control Plate) - JCS-WHT-2400S with Control Plate Opal - JCP-CHR-152415,Toilet roll holder -Jaquar -ACN -1151N etc,complete	Each	The Rate Shall be
142	RA-4	Providing and fixing Wash Basin vitreous china table top wash basin size 560mm x 450 mm in white colour. Like JAQUAR CNS-WHT-903 SIZZE OF 425x340x175MM with single hole for pillar tape with CP or MS brackets painted white including cutting holes and making good the same including (1) Providing and fixing SS waste coupling of 32 mm dia size half theread with 80mm height like jaquar -ALD - CHR-705 for wash basin with rubber plug (2) Providing and fixing SS bottle trap with internal partition of 32mm size with 250mm &190mm long wall flange connection pipes and wall flange likejaquar ALD-769 L250X190 of approved quality with necessary fitting for wash basin (3) Providing and fixing SS Pillar cock with extention body like JAQUAR FUS-CHR-29021N with necessary fittings etc. complete (4) Providing and fixing SS finish Angular Stop Cock quarter turn like Jaquar code FUS-29053 with necessary fittings (5) Providing and fixing SS finish soap dispenser with metallic bottle like Jaquar code-ACN-CHR-1135N,Towel ring -jaquar-CAN-1121BN etc. complete	Each	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
143	RA-5	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe.(A) Squating plate pattern white earthenware size of urinal 370mm x 315x 620 mm.of jaquar make code no URS -WHT-132530 including (1) Providing and fixing SS finish waste coupling of 32 mm dia size half theread with 80mm height like jauar -ALD - 709 for wash basin with rubber plug (2) Providing and fixing SS finish bottle trap with internal partition of 32mm size with 250mm &190mm long wall flange connection pipes and wall flange like jaquar ALD-769 of approved quality with necessary fitting for wash basin (3) SS finish flush valve of auto closing system like jaquar PRS-073 of approved quality and connection with waste pipe trap etc. complete	Each	The Rate Shall be
144	RA-6	Providing and fixing Overhead Shower ø105mm Round Shape Single Flow with Air Effect (ABS Body & Face Plate Chrome Plated) with Rubit Cleaning System JAQUAR OHS-1709 & Shower Arm Casted 160mm Long Light Body Round Shape for Wall Mounted Showers with Flange JAQUAR SHA-477 & Wall Mixer 3-in-1 System with Provision for both Hand Shower and Overhead Shower Complete with 115mm Long Bend Pipe, Connecting Legs & Wall Flange (without Hand & Overhead Shower) JAQUAR QQP-7281PM, Towel Rack 600mm Long without Hangers, Stainless Steel JAQUAR ACN-1181FS approved ISI brand quality, fixing in pieline and testing the same... etc., complete., as directed by EIC etc.	Each	The Rate Shall be
145	RA-7	Providing and fixing U PVC SCH40 for cold water 20 mm dia (3/4)"	Rmt.	The Rate Shall be
146	RA-8	Providing and fixing PVC SWR pipes IS 13592 for Drain - 75 mmdia	Rmt.	The Rate Shall be
147	RA-9	Providing and fixing PVC SWR P- Trap IS 14735 for Drain -110x110	No.	The Rate Shall be
148	RA-10	Providing and fixing Gun metal check or non-return fullway wheel valve. (A) 50mm dia.	No.	The Rate Shall be
149	RA-11	Providing laying and jointing PVC SWR pipes IS 13592 for Drain - 50 mmdia it's accessories.	Rmt.	The Rate Shall be
150	RA-12	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	No.	The Rate Shall be
151	RA-13	Providing and fixing SS finish Angular Stop cock for wash basin like Jaquar code FUS-29053	No.	The Rate Shall be
152	RA-14	Providing and fixing Handicap wash down water closet European type WC pan (Wall Hung) like JAQUAR CNS-WHT-961SPP- SIZE 365x545x360MM and P trap distance 23.5 cms with integral P trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 find sand) including providing and fixing of 1) Health Faucet hand shower heavy duty with SS braided hose 1.2 MT long pipe to water closet - JAQUAR ALD-CHR-573 with Single Piece Slim Concealed Cistern Body with Installations Kit & “S-Type” drain pipe connection set for Wall Hung WC (without Flush Control Plate) - JCS-WHT-2400S with Control Plate Opal - JCP-CHR-152415,Toilet roll holder -Jaquar -ACN -1151N, including grab bar etc,complete	Each	The Rate Shall be
153	1-2-1.	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III	Pt.	The Rate Shall be
154	1-1-4.	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III	Pt.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
155	1-2-2.	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III	Pt.	The Rate Shall be
156	1-2-5-f	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III	Pt.	The Rate Shall be
157	1-2-3.	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III	Pt.	The Rate Shall be
158	1-2-3.	[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	Pt.	The Rate Shall be
159	1-2-3.	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	Pt.	The Rate Shall be
160	1-2-4.	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	Pt.	The Rate Shall be
161	1-6-2 (B)	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III	Ea	The Rate Shall be
162	1-2-7.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (8) Computer RJ-45 socket Cat.III	Ea	The Rate Shall be
163	1-4-8.	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	Mtr.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
164	1-2-7.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (3) Two Pin/RJ-11 Telephone Socket [A] For One Gang Cat.III	Ea	The Rate Shall be
165	1-4-7.	Supplying & erecting approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections. [A] Conductor Size 0.5 mm (a) Unarmoured (2) Two Pairs	Mtr.	The Rate Shall be
166	1-4-9.	Providing & erecting main Distribution (MDF) indoor type, back mounted frame as per DoT standard approved with krone strips (d) Suitable for 100 pair	Ea.	The Rate Shall be
167	1-2-6.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (4) TV Co-axial Socket outlet Cat.III	Ea	The Rate Shall be
168	1-4-6.	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. (b) RG-6	Mtr.	The Rate Shall be
169	1-4-4.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (f) One wire 10.00 sq. mm	Mtr.	The Rate Shall be
170	1-4-4.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (g) One wire 16.00 sq. mm	Mtr.	The Rate Shall be
171	1-4-4.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (h) One wire 25.00 sq. mm	Mtr.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
172	1-4-4.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (i) One wire 35.00 sq. mm	Mtr.	The Rate Shall be
173	1-4-1.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (A) With medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	Mtr.	The Rate Shall be
174	1-4-1.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (A) With medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	Mtr.	The Rate Shall be
175	1-4-2.	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 4 sq. mm	Mtr.	The Rate Shall be
176	1-3-2.	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	Mtr.	The Rate Shall be
177	1-3-4.	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	Mtr.	The Rate Shall be
178	3-11-5.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iii)8 way	Ea	The Rate Shall be
179	3-11-5.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (IP-43) (i)4 way	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
180	3-11-5.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (IP-43) (ii)6 way	Ea	The Rate Shall be
181	3-11-5.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (IP-43) (iii)8 way	Ea	The Rate Shall be
182	3-10-1.(B)	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III	Ea	The Rate Shall be
183	3-10-3.	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat-III	Ea.	The Rate Shall be
184	3-10-5.	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (a) 6 to 32 Amp. Cat III	Ea.	The Rate Shall be
185	3-10-5.	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. . Cat III	Ea	The Rate Shall be
186	3-10-5.	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat III	Ea	The Rate Shall be
187	3-12-1.	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25Amps. DP Cat. III	Ea	The Rate Shall be
188	3-12-1.	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
189	3-12-1.	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (iii) 63 Amps. DP Cat. III	Ea	The Rate Shall be
190	3-8-2.	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. /sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. capacity	Rn.Mtr	The Rate Shall be
191	3-8-2.	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. /sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (C) Suitable for 300 Amp. capacity	Rn.Mtr	The Rate Shall be
192	3-4-1.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.	Ea	The Rate Shall be
193	3-4-2.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.	Ea	The Rate Shall be
194	3-4-3.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A. with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S.housing	Ea	The Rate Shall be
195	3-4-4.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. and above at 415 V . having normal current rating 250A. with variable thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.	Ea	The Rate Shall be
196	3-6-8.	Supplying & erecting approved make Four Pole 415V change over switch interior for panel mounting with operating mechanism A.C.23 duty confirming to IS for (E)250A / 320A cat III	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
197	3-16-1-A-i	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP- 42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in- charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.(B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory. (i) with 350mm depth board	Sq.Mtr	The Rate Shall be
198	3-16-4-A	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels,sections complete with cutting, welding,grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.		
199	3-17-5.	Providing and erecting multifunctional meter suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current lag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC 45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3 fields of 4 characters, Display digits 12 digit(s) - 14.2 mm in height	Kg.	The Rate Shall be
200	9-2-9.	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	Ea	The Rate Shall be
201	9-2-7	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter.	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
202	10-4-2.	Supplying and erecting, commissioning and testing diesel generating set having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil Supplying and erecting, commissioning and testing diesel generating set having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filler, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, feeder gauge, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12/24 volts electric starting equipment complete with standard battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both logged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indicator and piping and drip proof alternator, self excited, self regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722- 1968 with voltage regulation +/- 5% of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with antivibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity, indicator lamps duly wired with HRC fuses. The alternator & control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure (canopy) made out of 16 SWG CRCA Sheet, sound absorbing	Ea.	The Rate Shall be
203	10-4-3-E	Providing & erecting approved make ATS panel suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below: 1) Power module: Motorised Changeover switch with ATS controller, Auxiliary contactor with NO & NC contacts with Automatic Battery Charger, indicating lamps for Generator ON, Mains ON, Load and suitable control terminals and power terminals with neutral earthing studs. (E) ATS Panel for 100/ 125 KVA 3 phase DG Set	Ea	The Rate Shall be
204	3-13-1	Providing and erecting metallic vitrified danger notice board as per language suggested by engineer incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.	Ea.	The Rate Shall be
205	1-2-7-(7)	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (7) Blank Plate Single	Ea.	The Rate Shall be
206	3-4-13-3.	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing. (3) 250 A -400 A , CT Ratio 1/400	Ea.	The Rate Shall be
207	4-3-2.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (B) 3 core 6 Sq. mm (for ELV)	Mtr.	The Rate Shall be
208	4-3-3.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 3 1/2 core 35 Sq. mm (16 Sq. mm 1/2 core) (fire panel to main panel cabel)	Mtr.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
209	4-3-3.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (F) 3 1/2 core 120 Sq. mm (70 Sq. mm 1/2 core) (DG to main panel cable)	Mtr.	The Rate Shall be
210	4-3-3.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (G) 3 1/2 core 150 Sq. mm (70 Sq. mm 1/2 core) (Meter to main panel cable)	Mtr.	The Rate Shall be
211	4-3-4.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 4 Sq. mm (DB to panel & Control cable)	Mtr.	The Rate Shall be
212	4-3-4.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 6 Sq. mm (Plumbing pump to panel)	Mtr.	The Rate Shall be
213	4-3-4.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm (DB to panel cable)	Mtr.	The Rate Shall be
214	4-3-5.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 16 Sq. mm (DB to panel cable & Lift)	Mtr.	The Rate Shall be
215	4-6-1.	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (A) 2 to 4 core 2.5 / 4 Sq. mm	Ea	The Rate Shall be
216	4-6-1.	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 2 to 4 core 6 Sq. mm	Ea	The Rate Shall be
217	4-6-1.	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 2 to 4 core 10 Sq. mm	Ea	The Rate Shall be
218	4-6-1.	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 2 to 4 core 16 Sq. mm	Ea	The Rate Shall be
219	4-6-3.	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 3 & 1/2 core 35/50 Sq. mm	Ea	The Rate Shall be
220	4-6-3.	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (E) 3 & 1/2 core 120 Sq. mm	Ea	The Rate Shall be
221	4-6-3.	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (F) 3 & 1/2 core 150 Sq. mm	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
222	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/ 2.5/4/6 Sq.mm	Ea.	The Rate Shall be
223	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	Ea.	The Rate Shall be
224	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16/25 Sq.mm.	Ea.	The Rate Shall be
225	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (D) 35/50 Sq.mm.	Ea.	The Rate Shall be
226	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (G) 120 Sq.mm.	Ea.	The Rate Shall be
227	4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (H) 150 Sq.mm.	Ea.	The Rate Shall be
228	4-5-5.	Providing and erecting iron clad cable route marker duly marked with ELE.CABLE of size 23 cm.X 12 cm. Flushed with ground in cement foundation as directed by Engineer in charge.	Ea.	The Rate Shall be
229	3-14-9-B	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. (b)For Electrical installation up to 11 KV in normal soil. Length of Pipe : 2.00 mtrs Back filling Compound :1 no. Bag of 25 Kg.	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
230	3-14-9-C	(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg.	Ea	The Rate Shall be
231	3-14-3.	Providing and erecting required size Copper strip for earthing of H.T. OCB / ACB/ Transformer, LT panel board, Motors etc. using copper clamp.	Kg.	The Rate Shall be
232	3-14-2.	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	Kg.	The Rate Shall be
233	3-14-4.	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	Kg.	The Rate Shall be
234	5-1-6.	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	Ea	The Rate Shall be
235	5-2-1.	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	Mtr.	The Rate Shall be
236	5-2-3.	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	Ea	The Rate Shall be
237	5-2-5.	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	Ea.	The Rate Shall be
238	5-3-3.	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 200mm with 1350RPM Cat.II	Ea	The Rate Shall be
239	5-3-8.	Providing recess in wall or window frame suitable for erection of Exhaust fan complete with plastering and colour washing to match the colour of the wall or window complete with expanded metal in order to render the fitting in accessible and the room water-proof.	Ea	The Rate Shall be
240	2-15-1.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet	Ea.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
241	2-15-2	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (ii) 5 to 8 watts cat III	Ea	The Rate Shall be
242	2-15-3.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV cat - III	Ea	The Rate Shall be
243	2-15-3.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.IP20 (vi) 36 watts, 24" x 24", Surge- 2KV cat - III	Ea	The Rate Shall be
244	1-6-9.	Supplying & erecting Approved make call bell indicator with buzzing sound and Red light indicating lamp with Red light button to attend the call suitable for 240 v 50 c/s supply to be erected.	Ea	The Rate Shall be
245	8-13-2.	Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel.	Ea.	The Rate Shall be
246	8-13-6.	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [C] 50 Ltr / Hr with 150 psi 2 nos booster pump	Ea.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
247	8-3-1.	Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for (cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting. For 4/5 Star Rating of current year For 4/5 Star Rating of current year (b) for 1.5 ton capacity	Ea.	The Rate Shall be
248	8-3-1.	Providing and erecting approved make split air-conditioning unit consisting of copper condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for (cost includes powder coated Stand, Eco Friendly green gas charging, 15A plug top & Remote Control) with necessary core cutting. For 4/5 Star Rating of current year For 4/5 Star Rating of current year (c) for 2 ton capacity	Ea.	The Rate Shall be
249	8-16-2.	Supplying and erecting horizontal / vertical mounting type storage water heater with copper container housed in M.S./S.S./ABS body insulated with glass wool/puff complete with heating elements,adjustable thermostats 300C to 850C, indicating lamp, safety valve, fusible plug, etc.complete erected with coach bolts, nuts. washers & cementation (C)25 Ltr. with 2 KW. heating element Premium Category	Ea.	The Rate Shall be
250	Approved Rate (DTP Limbadi Work)	Supply, Installation with all type of Wire, Wiring, Fitting and Testing of Power Stabilizer for Controller of Power Flactuation (Specification: Input 3 Phase 4 wire system / KVA: 20Kva / AMP: 27A / Line Frequency: 47 to 63 Hz)	Ea	The Rate Shall be
251	9-6-2.	S.I.T.C. submersible pump set suitable for bore of 100 mm. dia. or more having three phase motor capacity not more than 5 H.P. with following capacity . Lifting and Lowering taken extra. (B) (16 stage) 140 to 180 LPM discharge at 96 to 69 mtrs. head respectively suitable for 50mm dia. delivery pipe cat III	Ea	The Rate Shall be
252	9-7-1.	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (C) 3 Core x 4 Sq. mm	Mtr.	The Rate Shall be
253	9-7-1.	Providing & erecting open well type horizontal mono block pump set with stainless steel body having following specification (C) 1 H.P. single phase open well motor pump set suitable for 185 LPM discharge @ 25 mtr. head, suitable for 32 mm dia. Delivery pipe with control panel. Cat III	Ea.	The Rate Shall be
254	9-4-2.	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [C] For 3 HP 3 phase open well horizontal mono block pump set suitable for 85 LPM to 270 LPM @ 11 mtr to 33 mtr head suitable for 50/65 mm dia delivery pipe Cat III	Ea.	The Rate Shall be
255	9-5-1.	Supplying & erecting approved make Automatic liquid level controller 6A. with sensor testing as per instruction of Engineer in charge on site complete with wiring connection with existing wires , with copper conductor from pump to upper and lower tank.	Ea.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
256	9-5-3.	Supplying & erecting approved make motor control cubical panel [Star delta] made from 16G CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking with suitable size of ON - OFF isolator (AC 3 / 23 duty) main fuses. Digital volt and current meter (in a single unit) with micro controller based control unit and current sensing single phasing preventer electronic overload protection, over voltage (Programmable) protection and under voltage (Programmable) protection, prod less dry run protection programming facility for setting of all parameter like overload current, high voltage limit, low voltage limit, dry run limit with digital indication on seven segment LED display for any fault like over load, high voltage, low voltage, dry running single crimped, electronic star delta timer, feather touch start / stop push buttons to be erected on angle iron frame. Grouted on wall the contactors will be of L& T, Siemens, BCH make only) (A) DOL up to 5.0 H.P.	Ea.	The Rate Shall be
257	6-1-5-C	Supplying and erecting approved make Conical Pole (Standard) Made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759 with required base plate and integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable terminations erected on suitable foundation (included) with necessary GI nut-bolts/J-Bolts. as per details given by manufacturer considering site requirement. The length of poles are as below. (C) 5 Mtr. Long 65mm Top X140 mm bottom dia, 3mm thickness.	Ea	The Rate Shall be
258	6-5-3-A	Providing and erecting street light pole bracket comprising main B Class MS pipe of 4.2 cm/require outside dia. complete with suitable B Class M.S. sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [A] Single Arm bracket 1 Mtr	Ea	The Rate Shall be
259	6-4-3-A	Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E), DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (A) 300mm x 200mm x 100mm [deep]	Ea	The Rate Shall be
260	2-16-2-A-I	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V, Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K, Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (i) above 36 to 48 watts Cat-III	Ea	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
261	6-3-2.	Providing and fixing Terminal board of size 5.0 x 127 x 152.4 mm.bakelite sheet with suitable brass studs with nuts, washers and clamps of size 25mm x 3mm suitable for pole painted with one coat of red lead paint.	Ea.	The Rate Shall be
262	6-7-2	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.	Ea	The Rate Shall be
263	6-7-5.	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (B) 2 pole 250V 32 Amp.	Ea	The Rate Shall be
264	1-4-5-e	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed. (e) 1.50 Sq.mm 3 core round PVC sheathed	Mtr.	The Rate Shall be
265	6-5-5-C	Supplying and erecting B class Galvanized iron pipe having smooth finished bore of the pipe on both ends erected nuts and bolts along the pole / wall shaping the pipe as per site requirement. Pipe dia as following. (C) 40 mm dia.	Rmt	The Rate Shall be
266	3-14-6-B & C	Providing and erecting Pipe type earthing with 40 mm dia 2.5 mtr long 'B' grade G.I. pipe with necessary coupling buch buried in specially prepared earth pit & G.I. earth wire of 8 SWG erected & connected as directed (For panel) For using salt and charcoal / coke as required for pipe type earthing.	Ea.	The Rate Shall be
267	4-5-8-A	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A)50 mm outer dia	Rmt	The Rate Shall be
268	4-5-8.	(D)120 mm outer dia.	Rmt	The Rate Shall be
269	3-10-3-A	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat-III	Ea.	The Rate Shall be
270	4-5-2.	Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	Mtr.	The Rate Shall be
271	4-5-1.	Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	Mtr.	The Rate Shall be
272	1-3-6	Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes (2) 100 mm x 50 mm trunking	Mtr.	The Rate Shall be
273	1-7-11.	Supply of Fibreglass Platform Step (A Type) Ladder - 15 FT having following specifications : It should have large fully serrated platform 15” wide 20” deep which locks ladder , Aluminium feet with thick rubber tread, top rail guard to serve as a railing, two pairs of gusset support at the bottom step and All gussets are heavy duty steel. Capacity : 300 lbs	Ea.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
274	1-7-12.	Supply of Fibreglass Platform Step (A Type) Ladder - 18 FT having following specifications : It should have large fully serrated platform 15” wide 20” deep which locks ladder , Aluminium feet with thick rubber tread, top rail guard to serve as a railing, two pairs of gusset support at the bottom step and All gussets are heavy duty steel. Capacity : 300 lbs.	Ea.	The Rate Shall be
275	4-10-2.	Supplying and erecting approved make GRP / FRP Perforated type Cable Tray Material – Corrosion Resistant Polyester Flame Retardant U.V. Stabilized Resin System - Manufactured from Pultruded Sections- Polyester Resin System, Glass Content : 55 – 60 % - - Standard Length : 3000mm- Support Span – 1500mm, Deflection L/200 - Specification NEMA FG1 1993- UV Resistant - Flame Retardant – IS 6746 - Appendix K/UL 94, Very Low Flammability - Specification Followed NEMA FG1 1993 Oxygen Index – Minimum 30% as per ASTM D 2863 - Flame Spread (Extent of Burning) – 20mm as per Standard ASTM D 635 - Tensile Strength – 4000 – 8000 Kg/Cm2 as per Standard ASTM D 638 - Flexural Strength – 2500 – 10000 Kg/Cm2 as per Standard ASTM D 790- Izod Impact Strength – 130 Kg/Cm2 as per Standard ASTM D 256- Compressive Strength – 2500 – 5000 Kg/Cm2 as per Standard ASTM D 695- Barcol Hardness – 50 – 65 (C) Width - 100mm, Pultruded “C” Channel with 35mm Sides 3mm Thickness, Loading 12 Kg./Mtr.	Rmt.	The Rate Shall be
276	4-10-2.	(D) Width - 150mm, Pultruded “C” Channel with 30mm Sides 3mm Thickness, Loading 15 Kg./Mtr.	Rmt.	The Rate Shall be
277	4-10-2.	(F) Width - 300mm, Pultruded “C” Channel with 50mm Sides 4mm Thickness, Loading 30 Kg./Mtr.	Rmt.	The Rate Shall be
278	10-2-5.	Supplying FIRE bucket round bottom of 9 litres capacity made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and Red out side with FIRE mark, filled with dry-sand and kept on existing stand provided or hung on wall hook.	Ea.	The Rate Shall be
279	10-2-6.	Supplying and erecting floor mounting stand for keeping four nos. of FIRE buckets comprising 1500 mm in length, 900 mm height frame made out of 30mm X30 mm X 4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of approved enamelled silver paint.	Ea.	The Rate Shall be
280	10-2-2.	Providing pair of rubber hand gloves suitable for working on 11 KV/22 KV supply.	Ea.	The Rate Shall be
		Note:-		
		(a) General Features & Special Features of the all lift items shall be taken as below.		
		(d) The Rates of the following items are for the lift of Machine room less. For Machine room Lifts, rate for Rs. 1,50,000/- shall be deducted in Total Cost for the Lifts from 4 to 13 Passenger Lift. Rs. 2,00,000/- shall be deducted in Total Cost for the Lifts 15 and above passenger capacity as extra cost.		
		(A) GENERAL DESCRIPTION OF LIFTS.		
		[1] GEAR LESS LIFT DRIVE (MRL) comprising of High Starting torque Lift 3 phase 440 V A. C. Permanent Magnet Synchronous motor of proper rating with high efficiency shall be used.[2] Micro processor based / PLC, ACVVVF, vector control drive with encoder feedback closed loop system shall be used for lift car and door operation which shall be full collective selective operation hall call demand response, UP/DOWN hall stops, Main, Up/ Down Contactor with overload and phase reversal relay and safety controls.		
		[3] Car with M S platform with bracings of adequate size and to sustain the impact load cabin + passenger with safety factor of fire for steel and side panels of Stainless steel of sheet of grade 304 duty. Car ceiling will be S.S. finishes with aesthetic appearance with LED ceiling lights. Car flooring shall be of anti skid PVC with choice of colour of engineer in charge. Car doors shall be of stainless steel grade 304, hairline finish with centre opening / telescopic automatic doors. Car panel will also be S.S. 304 finished with emergency stop device, mechanical door safety device, facility of auto/ attended mode. All car panel buttons and all floor switches must be with brail language as per lift act.		

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
		<p>[4] All landing doors must be fire rated for 2 hour shall be fully automatic centre opening/ telescopic opening made of hairline finish steel grade of 304 with key holes and infrared curtains with Unlocking facility from outside</p> <p>[5] Appropriate battery operated emergency light in the car along with alarm switch shall be provided. Also, Emergency Light & Fan should start immediately without any Time Delay as soon as power fails.</p> <p>[6] Digital scrolling indicator system for up-down arrow along with floor position indicator shall be provided inside the car and at all floors.</p> <p>[7] Full height infra red curtain with multiple cross / crossing light beams shall be provided.[8] Automatic Rescue Device (ARD) shall be provided accordingly of passenger capacity with Manual Rescue Operation (Manual Cranking Facility).</p> <p>[9] Audio visual indication in the lift car showing over loading shall be provided such that doors kept open till excess load is removed.</p>		
		<p>[10] Spring buffers/PU Buffers shall be provided.</p> <p>[11] Car fan as per passenger capacity with automatic sleep timer shall be provided.</p> <p>[12] Voice annunciator with suitable music shall be provided in lift car.</p> <p>[13] Self diagnostics system for operational and safety parameters shall be provided in control panel.</p> <p>[14] Mechanical over speed governor with governor calibration as per actual site parameters and submission of calibration certificate submission, door key holes in the floor doors, fireman switch shall be provided.</p> <p>[15] Lift machine hoisting arrangement in the lift machine room and monkey ladder for lift pit should be provided by the lift agency, along with the other steel structure works, foundations for the machine etc...</p> <p>[16] In the hoist way fascia plate shall be provided without any extra cost, where ever required as / if directed by engineer in charge.</p>		
		<p>[17] Permanent wiring with necessary safety devices like RCCB in all circuit, Over Voltage Under Voltage protection and THD eliminator in circuit for lift machine room and lift well with proper numbers of light points, with fixtures, exhaust fan and plug points shall be provided by the agency. Only 3 phase Power Supply shall be made available by department in lift machine room. Necessary Earthing as per Lift Act/Rules shall be arranged by Lift Agency.</p> <p>[18] Any civil/ electrical works for additional and alteration in lift shaft and machine room related to erection of lift shall be made by lift agency without any extra cost. (granite/marble fixing around all landing door openings are not in lift agency's scope.)</p> <p>[19] Agency has to provide all working drawings and documents and liaison services for obtaining all necessary permission from lift inspector and other authorities. [20] acrylic transparent licence/display A4 size holder in lift car</p>		
		<p>[20A] As per statutory requirement of Govt. Of Gujarat lift & escalator act 2000, lift agency has to provide</p> <p>1. Car top safety barricade</p> <p>2. Push & talk communication system.</p> <p>3. Fireman's switch operation at Ground Floor.</p> <p>4.carrying out third party lift inspection during/after lift erection and provide report by third party authorized by concern licensing authority</p> <p>5.agency has to provide third party insurance upto completion of free maintenance period and submit the document for the same.</p>		
		<p>[21] Car Panel Operating Buttons with floor position indicator/buttons must be of Auto Glow type clearly visible when view from inside cabin.</p> <p>[22] For Physically Handicapped person Full Length Handrails of hairline finish steel grade of 304 should be provided at appropriate height on the Rear & Side Wall Panels in Lift Car.</p>		
	13-1	DESCRIPTION OF LIFT :		
		Supplying, Erecting, Testing & Commissioning the passenger / stretcher lift having following main features:		

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
281	13-1-Q	8/10 passengers . Ground plus 1 upper floors with Rated Speed of 1 m/sec with micro price/PLC control and ACVVVF. drive (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	Ea.	The Rate Shall be
282	13-1-AZ	20 passengers . Ground plus 1 upper floors with Rated Speed of 1 m/sec with micro price/PLC control and ACVVVF. drive (C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	Ea.	The Rate Shall be
283	10-2-26.	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [A] For 4.5 Kg Capacity	Ea	The Rate Shall be
284	10-2-27.	Supplying & erecting ABC powder type 'Ceasefire' type Fire extinguisher as per IS 13849 or 1 Kg capacity with necessary clamp for erection on wall	Ea	The Rate Shall be
285	MR	SITC of Analogue Addressable Multi- Sensor which is fully compatible with Analogue Addressable Protocol,having removable high performance chamber with Twin fire LED's allow 360 degree viewing, User selectable sensitivity modes 1% to 4.5% obs/m, Incorporate Optical and dual Heat elements, lock mechanism (sensor to base), Electronically addressed, Pulsing/non-pulsing controlled from panel. Approved by LPCB & VdS. (Including Five year free maintenance with guarantee)	Ea	The Rate Shall be
286	MR	SITC of sensor isolator mounting base, includes stainless steel contacts, slim profile - only 8mm, quick connection via square cable clamps, facility for remote indicator, Approved by LPCB (Including Five year free maintenance with guarantee)	Ea	The Rate Shall be
287	MR	SITC of Analogue Addressable Manual Call Point with Integral Short Circuit Isolator, Analogue Addressable Protocol having, Bi-coloured status LED (red for alarm, amber for (short-circuit), Non-frangible element fitted as standard (conforms to EN54), pulsing/non-pulsing can selectable via panel, Electronically addressed, Approved by LPCB. (Including Five year free maintenance with guarantee)	Ea	The Rate Shall be
288	MR	SITC of addressable loop powered Base sounder with integral Beacon, includes 51 user- selectable tones (all tones EN54-3 compatible), variable sound output 50 ~ 98 dB(A) (±2 dB(A)) output at 1 metre, Auto shut down feature prevents noise pollution, 'O' rated beacon to EN-23, IP21 rated for internal use, sounder and beacon can operate independently, Approved by LPCB (Including Five year free maintenance with guarantee)	Ea	The Rate Shall be
289	MR	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	Mtr.	The Rate Shall be
290	MR	SITC of Microprocessor based Net-workable Analogue Addressable Fire Alarm Control Panel. The Panel shall be compliant with EN54-2, EN54-4 and approved by LPCB. The Fire Alarm Control Panel shall have inbuilt 3 loops and expandable upto 4 Loops. The Panel must have large graphic display. The Panel must also have the capability to take Addressable Intelligent Wired and Wireless Devices on same loop. Each loop shall have a capacity of 127 analogue Addressable devices and 127 Base sounders/Base Sounder Beacons. The Panel shall have 240 V AC power supply along with automatic Battery Charger. Approved by LPCB (Including Five year free maintenance with guarantee)	Ea	The Rate Shall be
291	MR	Supply, Installation, Testing and Comissioning of 4MP Varifocal Lens Dome Type Camera, H.265 4MP IR Turret Dome N/W Camera, Manual Varifocal 2.8-12mm, 50M, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 4MP resolution (2560 × 1440), True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Built in MIC, Cyber Security, Basic intelligent video analytics, Audio In, NDAA Compliance, UL, CE, FCC Certified (Including Five year free maintenance with guarantee)	Ea.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
292	MR	Supply, Installation, Testing and Comissioning of 16 Channel Network Video Recorder (NVR), 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface, Supports H.265+/ H.265/H.264/H.264+ decoding formats, Embedded NVR, 2 HDD Bays, up to 6TB capacity each disk, HDMI, VGA output, 1-ch @ 8 MP / 4- ch @ 1080p, Incoming bandwidth 160Mbps, Outgoing 80 Mbps, CE FCC, BIS, Operating Temp -10 deg to 55 deg C, 2xUSB 2.0 1USB and serial Interface (Including Five year free maintenance with guarantee)	Ea.	The Rate Shall be
293	MR	SITC of SCREEN SIZE 80 cm diagonal (32" INCH), RESOLUTION HD (1366*768), USB INPUT (2.0 SUPPORT) 2*Side(USB2.0), HDMI INPUT 3*Side(HDMI 1.4), USB DEVICE SUPPORT USB Supported HDD, HOTEL MODE Yes, Basic, BLUETOOTH Yes (Ver. 4), WIFI TYPE(STANDARD) 802.11a/b/g/n 2.4G 2T2R, Built-in, WIFI BAND TYPE 2.4GHz, OS & VERSION INFO Android 'P' - 9.0, MEMORY FLASH 8GB EMMC, RAM 1.5GB , DDR3 2133 Mhz. (Including Five year free maintenance with guarantee)	Ea.	The Rate Shall be
294	7-13-15	SITC of 24 x 10/100/1000BASE-T PoE ports 4 x Gigabit RJ45/SFP Combo ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 193 W PoE budget [Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	Ea.	The Rate Shall be
295	MR	Supply, Installation, Testing and commissioning of 4 TB Surveillance Series Hard disk supporting 24X7 operational efficiency	Ea.	The Rate Shall be
296	MR	Providing & Erecting Netwrok rack with following capacity with Necessary cooling fan,Cable manager,6A PDU,equipment rack with necessary mounting accessories. (A) 9 U	Ea.	The Rate Shall be
297	MR	Main Fire Hydrant Pump- Electric Motor Driven: SITC of: Back pull out type -Single Stage, Self Mriming, Centrifugal Pump for Main Fire Pump with Electric Motor, Base frame and Couplings. MOC:-Casing-CI, Impeller- Bronze, Shaft- SS 410, Sleeve-SS410. Flow Capacity: 2280 LPM Head: 65 mtr Speed: 2900 Approx Pump shall be capable of furnishing not less than 150% of rated capacity at a head not less than 65% of rated head The shut off head shall not exceed 120% of rated head. UOM:-Price Per Complete set of Pump + Motor + Accessories. Note:-01. Minor civil work like tank hole/ Core Cutting etc. are in bidders scope. Location: In Pump Room Make: Kirloskar / Lubi	Set	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
298	MR	<p>Jockey Fire Pump- Electric Motor Driven:</p> <p>SITC of: Back Pull-out End Suction Type -Single Stage, Self Priming, Centrifugal Pump for Jockey Fire Pump with Electric Motor, Mechanical Seal, Base-frame and Couplings.</p> <p>MOC:-Casing-CI, Impeller- Bronze, Shaft- SS 410, Sleeve-SS410.</p> <p>Flow Capacity: 180 LPM</p> <p>Head: 65 mtr</p> <p>Speed: 2900 Approx</p> <p>Pump shall be capable of furnishing not less than 150% of rated capacity at a head not less than 65% of rated head The shut off head shall not exceed 120% of rated head.</p> <p>UOM:-Price Per Complete set of Pump + Motor + Accessories.</p> <p>Note:-01. Minor civil work like tank hole/ Core Cutting etc. are in bidders scope.</p> <p>Location: In Pump Room</p> <p>Make: Kirloskar / Lubi</p>	Set	The Rate Shall be
299	MR	<p>Standby Fire Pump- Diesel Engine Driven</p> <p>SITC of: Diesel Engine driven Standby Pumping System complete with,diesel engine, Back Pull-out Type Single Stage, Self Priming, Centrifugal Pump, Couplings & Base-frame:</p> <p>MOC:- Pump Casing-CI, Impeller- Bronze, Shaft-SS410, Sleeve- SS410.</p> <p>Flow Capacity: 2280 LPM</p> <p>Head: 65 mtr</p> <p>Speed: 2900 LPM</p> <p>Diesel Engine includes 100 ltr diesel tank, battery, battery charger, engine oil and coolant.</p> <p>UOM:-Price Per Each Set.</p> <p>Note:-01. Minor civil work like tank hole/ Core Cutting etc. are in bidders scope.</p> <p>Location: In Pump Room</p> <p>Make: Kirloskar / Lubi</p>	Set	The Rate Shall be
300	MR	<p>Fire Pump Control Panel- Auto and Manual Type.</p> <p>Supply, Installation and Testing of: Electric Control Panel for Electric Motor Driven Main Fire Pump and Jockey Fire Pump. all pumps can be Start Automatically (by Pressure Switch) & Manually.</p> <p>Design As per the Detail Specifications given.</p> <p>UOM:-Price Per Set.</p> <p>Location: In Pump Room</p> <p>Make: Kirloskar / Lubi</p>	No.	The Rate Shall be
301	MR	<p>Air Vessel:</p> <p>SITC of Pressurized Air Vessel f Size 450 mm Dia x 2000 mm long fabricated from 10 mm thick MS Plate with 25 mm drain valve, air release valve with ball valve on top and isolation valve.</p>	No.	The Rate Shall be
302	MR	<p>Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall FRLS type with necessary clamps or in existing trench / pipe of following size of cables</p> <p>- 3.5 core 70 Sq. mm</p>	Rmt	The Rate Shall be
303	MR	<p>Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.</p> <p>- 3.5 core 70 Sq. mm</p>	No.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
304	MR	Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. - 70 Sq.mm.	No.	The Rate Shall be
305	MR	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall FRLS type with necessary clamps or in existing trench / pipe of following size of cables - 4 core 16 Sq. mm	R.mtr	The Rate Shall be
306	MR	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. - 4 core 16 Sq. mm	No.	The Rate Shall be
307	MR	Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. - 16 Sq.mm.	No.	The Rate Shall be
308	MR	Pressure Gauge with Siphon Tube and Cock. Supply, Installation and Testing of: Pressure Gauge with Siphon Tube and Cock. MOC:-4" Dial- Glycerin filled- Stainless Steel Body Pressure Gauge with GI Siphon Tube andBrass Cock. Size:-Dial: 4" (100 mm) Range: 0 – 16 Bar (kg/cm2) UOM:-Price Per Unit	No.	The Rate Shall be
309	MR	Pressure Switch with Siphon Tube and Cock. Supply, Installation and Testing of: Pressure Switch with Siphon Tube and Cock. Size:- Range suitable for System Design Pressure. UOM:-Price Per Unit	No.	The Rate Shall be
310	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Under Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint, Wrapping-Coating etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 150 mm	R.mtr	The Rate Shall be
311	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 200 mm	R.mtr	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
312	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 150 mm	R.mtr	The Rate Shall be
313	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 100 mm	R.mtr	The Rate Shall be
314	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 80 mm	R.mtr	The Rate Shall be
315	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 65 mm	R.mtr	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
316	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 50 mm	R.mtr	The Rate Shall be
317	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 40 mm	R.mtr	The Rate Shall be
318	MR	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 25 mm	R.mtr	The Rate Shall be
319	MR	Gate /SluiceValve Supply, Installation and Testing of: Gate/ Sluice (Rising Spindle -Screw & Yoke Type) Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: Cast Iron, Seat: Nitrile, Stem: SS. (With Flange Ends). Standard: ISI Marked. UOM:-Price Per Each No. Size: 200 mm	No.	The Rate Shall be
320	MR	Gate /SluiceValve Supply, Installation and Testing of: Gate/ Sluice (Rising Spindle -Screw & Yoke Type) Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: Cast Iron, Seat: Nitrile, Stem: SS. (With Flange Ends). Standard: ISI Marked. UOM:-Price Per Each No. Size: 150 mm	No.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specifications
321	MR	Gate /SluiceValve Supply, Installation and Testing of: Gate/ Sluice (Rising Spindle -Screw & Yoke Type) Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: Cast Iron, Seat: Nitrile, Stem: SS. (With Flange Ends). Standard: ISI Marked. UOM:-Price Per Each No. Size: 80 mm	No.	The Rate Shall be
322	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 150 mm	No.	The Rate Shall be
323	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 80 mm	No.	The Rate Shall be
324	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 50 mm	No.	The Rate Shall be
325	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 150 mm	No.	The Rate Shall be
326	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 100 mm	No.	The Rate Shall be
327	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 80 mm	No.	The Rate Shall be
328	MR	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 50 mm	No.	The Rate Shall be
329	MR	Strainer. Supply, Installation and Testing of: Y Type Strainer with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Mesh: SS-304. Working Pressure: 10 Bar UOM:-Price Per Each No. Size: 200 mm	No.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
330	MR	Air Release Valve- 25 mm Supply, Installation and Testing of: Air Release Valve Check Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Gunmetal / SS. UOM:-Price Per Each No.	No.	The Rate Shall be
331	MR	Fire Hydrant Landing Valve (Stainless Steel (SS-304), ISI Marked): Supply, Installation and Testing of: Fire Hydrant Landing Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Stainless Steel (SS-304), Working Parts: Stainless Steel (SS-304), Coupling: Stainless Steel (SS-304), Standard: -ISI Marked. Size:-63 mm (Flange End: NB 75 mm, PCD 160 mm) UOM:-Price Per Each No.	No.	The Rate Shall be
332	MR	Fire Hose Pipe (Delivery Hose)- 63 mm x 15 m Supply, Installation and Testing of: Fire Hose with Hose Couplings. RRL (ISI Mark- Type A) Fire Hose. Hose Couplings: ISI Marked Stainless Steel. With SS Wire Binding. Standard: - ISI Marked & TAC Approved Hose. Size:-63 mm dia x 15m long Hose. UOM:-Price Per Each Set.	No.	The Rate Shall be
333	MR	Cabinet For Fire Hose (Hose Box)- Double Type Supply, Installation and Testing of: Fire Hose Cabinet (Hose Box) suitable to accommodate 02 no. of 15 m long fire hoses and 01 no. of nozzle. With Lock-n-key facility. Wall Mounting Design. MOC: 16 Gauge MS Box with Powder Coating Standard: - As per Guidelines. Size:- Suitable for 02 nos. of 15 m long hoses. UOM:-Price Per Each No.	No.	The Rate Shall be
334	MR	Fire Hose Nozzle- Short Branch Pipe Nozzle. Supply, Installation and Testing of: Short Branch-pipe Nozzle. MOC: Stainless Steel (SS-304). Standard: ISI Marked, Heavy Quality. Size:- 63 mm X 20 mm UOM:-Price Per Each No.	No.	The Rate Shall be
335	MR	Fire Hose Reel Set (ISI)-19 mm x 30 m -Rubber Hose. Supply, Installation and Testing of: Fire Hose Reel Set with necessary pipe fitments, hardware and consumables. MOC:-Drum: 16 G Powder Coated MS, Hose: 19 mm X 30 m heavy-duty RUBER hose. Shut-off Nozzle: SS-304. With Control Valve: SS- 25mm Ball Valve. Standard: ISI Marked. Heavy Quality. Size:-19 mm dia x 30m long Hose. UOM:-Price Per Each No.	No.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
336	MR	Fire Service In-let (In-let Connection for Fire Brigade)-4 Way Type. Supply, Installation and Testing of: Fire Service Inlet with necessary hardware and consumables. MOC:-Body: Heavy-duty CI. Couplings/NRV: Gunmetal. Standard: -Made As per IS Standard- Heavy duty quality. Size:-Couplings: 63 mm, 150 mm E-table Flange End. UOM:-Price Per Each No.	No.	The Rate Shall be
337	MR	Sprinkler Head/ Nozzle. Supply, Installation and Testing of: K 5.6 Pendent type Standard Response Sprinkler rating of 57 deg.C. with required accessories. MOC:-Brass Standard: UL Listed Size:-15 mm (1/2") UOM:-Price Per Each No.	No.	The Rate Shall be
338	MR	Flow Switch Supply, Installation and Testing of: Flow Switch with necessary pipe fitments, hardware and consumables. UOM:-Price Per Each No. With all wiring/ cabling up to control panel and all electrification.	No.	The Rate Shall be
339	MR	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall FRLS type with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cable. (a) 3 core 2.5Sq. mm	Rmt	The Rate Shall be
340	MR	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (a) 2 to 4 core 2.5 Sq. mm	No.	The Rate Shall be
341	MR	Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/ 2.5/4/6 Sq.mm	No.	The Rate Shall be
342	MR	Providing and fixing, testing and commissioning of Draining Valve 50mm dia with by pass drain connection as required.	No.	The Rate Shall be
343	MR	Providing and fixing, testing and commissioning of CO2 type Fire Extinguisher of capacity 22.5 kg filled with Co2 Gas as per IS 15222 with controll discharge mechanism fitted with Hose, Horn & TROLLEY confirms to IS 2878 bearing ISI mark. Co2 Cylinder as per IS 7285.	No.	The Rate Shall be
344	MR	Fire Extinguisher- ABC Powder type, 6 kg. Supply, Installation and Testing of: ABC Powder Fire Extinguisher necessary hardware and consumables. Stored Pressure Mechanism. Charged with MAP-50 % (ABC) Dry Powder. With wall mounting clamp. Size:-6 kg Powder. UOM:-Price Per Each No.	No.	The Rate Shall be

Item No.	N.B.O. No.2024-25	Item of	Unit	Detail Specification
345	MR	Fire Extinguisher- CO2 Gas type, 4.5 kg. Supply, Installation and Testing of: CO2 Gas Fire Extinguisher with necessary hardware and consumables. Standard: - Confirming to IS: 15683-2006 with ISI Mark. Size:-4.5 kg UOM:-Price Per Each No.	No.	The Rate Shall be
346	MR	Supplying FIRE bucket round bottom of 9 litres capacity made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and Red out side with FIRE mark, filled with dry-sand and kept on existing stand provided or hung on wall hook.	No.	The Rate Shall be
347	MR	Supplying and erecting floor mounting stand for keeping four nos. of FIRE buckets comprising 1500 mm in length, 900 mm height frame made out of 30mm X30 mm X 4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of approved enamelled silver paint.	No.	The Rate Shall be
348	MR	Safety Signage- Night Glow Type: SIRC of: Single Side Printed Night Glow (Glow in Dark) Safety Signage. Printed on PVC sticker sheet and pasted on 3-5 mm thick PVC foam sheet. Size: 10" X 10".	No.	The Rate Shall be
349	MR	RCC Hume Pipe: Providing and Laying NP3 RCC Hume Pipe of 300 mm at road crossing	R.mtr	The Rate Shall be
350	MR	Approval of Fire Hydrant & Entire Fire Protection System from Local Fire Authority and any other relevant statutory authority at initial and various other stages of work, including preparation of report/drawings as per fire authority requirement. Contractor shall include cost of all liason work which are not explicitly mentioned above but are mandatory to have fire authority approval (any statutory charges will be paid extra).	No.	The Rate Shall be