

MIRA-BHANDAR MUNICIPAL CORPORATION

SCHEDULE 'B'

NAME OF WORK: PROPOSED CONSTRUCTION OF CANTEEN AT 6TH FLOOR OF MBMC MAIN BUILDING IN MBMC AREA.

Item No	Quantity as per Sanctioned Estimate	Item of Work	Estimated Rate			Unit	Total Amount according to estimated quantities	Specification		Additional Specification
			In Figures		In Words			Clause No	Page No	
			Rs.	Ps.	Rs.					
1	2	3	4	5	6	7	8	9	10	11
1		CIVIL								
1	44.64	ITEM NO.01 Removing brick bat coba including stacking the spoils as directed with all leads, lifts etc, complete. SSR 46.14	664	65	Rupees Six Hundred SixtyFour Paise SixtyFive Only	CMT	29666.65			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
2	3.00	ITEM NO.02 Removing doors and windows with frames and stacking the materials as directed with all leads, lifts etc. complete.	163	80	Rupees One Hundred SixtyThree Paise Eighty Only	NOS	491.40			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
3	33.85	ITEM NO.03 Dismantling the R.C.C. Work 1:2:4 and sorting out the materials such as steel etc. as directed and stacking them within the specified lead as directed etc. complete.	1523	55	Rupees One Thousand Five Hundred TwentyThree Paise FiftyFive Only	CMT	51569.37			As per Instruction given by Executive Engineer/ Site Engineer during execution of work(Upto M30)
4	28.19	ITEM NO.04 Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts	47	25	Rupees FourtySeven Paise TwentyFive Only	SMT	1331.74			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
5	222.22	ITEM NO.05 Removing the existing cement plaster of any thickness without causing dust nuisance and stacking the debris upto a distance of 50metres or spreading in the compound and cleaning the site etc.	54	60	Rupees FiftyFour Paise Sixty Only	SMT	12133.21			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

6	1.00	ITEM NO.06 Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc. SSR 46.09/296	351	75	Rupees Three Hundred FiftyOne Paise SeventyFive Only	CMT	351.75			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
7	30.00	ITEM NO.07 Removing and refixing G.I. pipes of any size with all new fittings if necessary complete including cleaning and painting.	228	0	Rupees Two Hundred TwentyEight Only	RMT	6840.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work(Removing and
8	85.34	ITEM NO.08 Lowering down the debris obtained from breaking and removing the cement plaster / burnt brick masonry of the first floor by any means without causing dust nuisance and damage to structure, stacking the same as and where directed	789	60	Rupees Seven Hundred EightyNine Paise Sixty Only	CMT	67381.95			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
9	85.34	ITEM NO.09 TRANSPORTING OF EXCAVATED MATERIALS lead 20.00 k.m. SSR in Statement C 1	468	37	Rupees Four Hundred SixtyEight Paise ThirtySeven Only	CMT	39969.20			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
10	1.50	ITEM NO 10 Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic,	8391	86	Rupees Eight Thousand Three Hundred NinetyOne Paise EightySix Only	CMT	12587.79			Bd.E.4 Page One Number 289 and B-7, Page One Number 38 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

11	5.00	ITEM NO. 11 Repairing to the existing RCC structural members (vertical or horizontal) using ready mix Polymer Modified Mortar (Fibre reinforced structural grade repair mortar) of approved brand where the thickness of repair is upto 15 mm. It can be used for carrying out extensive repairs to beams, columns, slab, and other structural elements, repairing of	3063	0	Rupees Three Thousand SixtyThree Only	SMT	15315.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
12		Surface preparation- (separate payment shall be made) All loose traces of concrete or mortar, dust, grease oil, etc. must be removed. Damaged or contaminated concrete shall be removed to obtain a keyed aggregate exposed surface. Non-impact/ vibrating cleaning methods, e.g. grit or high pressure water blasting are recommended. Clean all exposed reinforcement to a minimum grade of Sa 2 according to ISO 8501-1 / ISO 2944-4. Ensure all visible portions of the reinforcing bar is clean. Where reinforcing bars are corroded, cut back the concrete around the reinforcing bars, Grit blast to remove corrosion products from around reinforcing bars and coat with approved epoxy coating for corrosion protection or any other protective coating as recommended by the Structural Engineer to protect from corrosion. Replace the								

		Mixing - Only full bags are mixed. Damaged or opened bags should not be used. Mix the ready-mix Polymer Modified Mortar in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600rpm) mixer for 3 minutes until a lump free, thixotropic consistency is achieved. Only use clean water. Mixing water needed: 3.75 to 4.25 litres per 25kg bag or as recommended by the								
		Mortar application- The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be presoaked, preferably for 24 hours, but at least 2 hours before applying Polymer Modified Mortar. The surface must be saturated surface dry, but without standing water. Polymer Modified Mortar can be spray- or hand-applied. Apply mixed product directly to the prepared damp substrate, or wet on wet onto the primed surface. Spraying the material with the necessary pressure will ensure good adhesion of the material. A thin scrape coat or contact layer								

15		Protective coatings Subsequent coatings of any anticarbonation barriers or silane impregnations should be applied if recommended by the Structural Engineer. Plaster- (No separate payment shall be made) The repaired surface shall be matched to the surrounding surface by providing required thickness of plaster internal or external plaster. Curing Minimum 7 days curing shall be done to the newly repaired area using any suitable method. Required Compressive strength								
12	5.00	ITEM NO. 12 Repairing to the existing RCC structural members (vertical or horizontal) using ready mix Polymer Modified Mortar (Fibre reinforced structural grade repair mortar) of approved brand where the thickness of repair is upto 30 mm in two layers. It can be used for carrying out extensive repairs to beams, columns, slab, and other structural elements, repairing of structural members	5866	0	Rupees Five Thousand Eight Hundred SixtySix Only	SMT	29330.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

		Surface preparation- (separate payment shall be made) All loose traces of concrete or mortar, dust, grease oil, etc. must be removed. Damaged or contaminated concrete shall be removed to obtain a keyed aggregate exposed surface. Non-impact/ vibrating cleaning methods, e.g. grit or high pressure water blasting are recommended. Clean all exposed reinforcement to a minimum grade of Sa 2 according to ISO 8501-1 / ISO 2944-4. Ensure all visible portions of the reinforcing bar is clean. Where reinforcing bars are corroded, cut back the concrete around the reinforcing bars, Grit blast to remove corrosion products from around reinforcing bars and coat with approved epoxy coating for corrosion protection or any other protective coating as recommended by the Structural Engineer to protect from corrosion. Replace the affected part of								
18		Mixing - Only full bags are mixed. Damaged or opened bags should not be used. Mix the ready-mix Polymer Modified Mortar in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600rpm) mixer for 3 minutes until a lump free, thixotropic consistency is achieved. Only use clean water. Mixing water needed: 3.75 to 4.25 litres per 25kg bag or as recommended by the Manufacturer of Polymer Modified Mortar. Allow the mortar to rest for 2 - 3								

		Mortar application- The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be presoaked, preferably for 24 hours, but at least 2 hours before applying Polymer Modified Mortar. The surface must be saturated surface dry, but without standing water. Polymer Modified Mortar can be spray- or hand-applied. Apply mixed product directly to the prepared damp substrate, or wet on wet onto the primed surface. Spraying the material with the necessary pressure will ensure good adhesion of the material. A thin scrape coat or contact layer before building up to therequired thickness, wet on wet, will improve adhesion especially in case of hand application. Apply to the desired layer thickness upto 15 mm in single layer and after hardening, provide second layer of required thickness (total upto 30 mm) and level using a screeding bar, trowel								
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20		Protective coatings Subsequent coatings of any anticarbonation barriers or silane impregnations should be applied if recommended by the Structural Engineer. Plaster- ((No separate payment shall be made)) The repaired surface shall be matched to the surrounding surface by providing required thickness of plaster internal or external plaster. Curing Minimum 7 days curing shall be done to the newly repaired/jacketed area using any suitable method. Required Compressive strength (ASTM								
21	6.58	ITEM NO.13 Providing and applying Kelox R101 (Resin) +Kelox H404 (Hardner)water misible epoxy of approved make for bonding old concrete to new moratr after mixing slowly in predefined ratio and applying by brush on the surface, when it is tacky then apply the moratr complete as per specification and as directed by engineer-in-charge. Work shall be executed by certified applicator	763	35	Rupees Seven Hundred SixtyThree Paise ThirtyFive Only	SMT	5025.56			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

14		ITEM NO.14 Supplying, Drilling / Cleaning hole and injecting chemical. Application to bedesigned separately for Rebars as Simply Supported, Momentor Splice Connection as per EC2/ TR023 or relevant tested and accepted rebar guidelines. Thechemical should have ETA approval for seismic rebar as aminimum qualifying criterion. Drilling hole with double flute type drill bit sor hollow drill bits to the required depth by rotary hammer drill, cleaning with brush and jet of clean air, filling resin and hardener using serrated nozzle to eliminate mixing error with standard HDEA22 battery dispenser along with pistonplug. The installation and the setting instructions								
	5.00	a) HY20 -8mm dia 160mm depth SSR 53.08/452	228	90	Rupees Two Hundred TwentyEight Paise Ninety Only	NOS	1144.50			Bd.C.2 Page No. 275 As per Instruction given by Executive Engineer/ Site Engineer during
	5.00	b) HY200 -10 mm dia 200mm depth SSR 53.09/453	411	60	Rupees Four Hundred Eleven Paise Sixty Only	NOS	2058.00			Bd.C.2 Page No. 275 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	5.00	c) HY200 -12 mm dia 240mm depth depth SSR 53.10/453	504	0	Rupees Five Hundred Four Only	NOS	2520.00			Bd.C.2 Page No. 275 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

	5.00	d) HY200 -16 mm dia 320mm depth SSR 53.11/454	696	15	Rupees Six Hundred NinetySix Paise Fifteen Only	NOS	3480.75			Bd.C.2 Page No. 275 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	5.00	e) HY200 -20 mm dia400mm depth SSR 53.12/454	936	60	Rupees Nine Hundred ThirtySix Paise Sixty Only	NOS	4683.00			Bd.C.2 Page No. 275 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
15	38.44	ITEM NO.15 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/ pumping, compactionand roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based	14552	81	Rupees Fourteen Thousand Five Hundred FiftyTwo Paise EightyOne Only	CMT	559401.87			Bd.F.6 Page One Number 300 and B.7, Page One Number38 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

16	0.75	ITEM NO 16 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and	16300	1	Rupees Sixteen Thousand Three Hundred Paise One Only	CMT	12225.01			Bd.F.8 Page One Number 302 and B.7, Page One Number38 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
17	28.31	ITEM NO 17 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal fo R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork,cover blocks laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and	16143	56	Rupees Sixteen Thousand One Hundred FourtyThree Paise FiftySix Only	CMT	457013.07			Bd.F.5 Page One Number 300 and B.7, Page.One Number 38 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

18	0.84	ITEM NO.18 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 8mm diameter as per IS:13620-1993 specifications for a thickness of 175 micron Permissible variation of 50 micron including testing of coating at plant, including cost for careful handling using PVC coating, binding wires instead of G.I.wire to and from Plant touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200 km from plant etc.complete. (Item shall be used for new structures.) Note: The item should be executed with prior approval of Superintending Engineer. FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size c) Coating thickness over the whole of	25945	50	Rupees TwentyFive Thousand Nine Hundred FourtyFive Paise Fifty Only	MT	21794.22			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
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19	1.96	ITEM NO 19 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 10mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. Note : The item should be executed with prior approval of Superintending Engineer. FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size	20622	0	Rupees Twenty Thousand Six Hundred TwentyTwo Only	MT	40419.12			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
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20	3.36	ITEM NO 20 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 12mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. (Item shall be used for new structures.) Note : The item should be executed with prior approval of Superintending Engineer. FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size b) continuity of coating shall be determined by testing one full length	17740	80	Rupees Seventeen Thousand Seven Hundred Forty Paise Eighty Only	MT	59609.09			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
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21	3.92	ITEM NO 21 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 16mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. Note : The item should be executed with prior approval of Superintending Engineer. FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size c)	13763	40	Rupees Thirteen Thousand Seven Hundred SixtyThree Paise Fourty Only	MT	53952.53			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
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22	2.52	ITEM NO 22 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 20mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete. Note : The item should be executed with prior approval of Superintending Engineer. FREQUENCY OF TEST OF FUSION BONDED EPOXY COAT a) Coating thickness shall be tested at a frequency of not less than one full length bar every twenty bars for each size b) continuity of coating shall be determined by testing one full length bar in every twenty bars for each size	11383	5	Rupees Eleven Thousand Three Hundred EightyThree Paise Five Only	MT	28685.29			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
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23	1.40	ITEM NO 23 Providing Fusion Bonded Epoxy Coating (FBEC) to reinforced bars of 25mm diameter as per IS: 13620-1993 specifications for a thickness of 175micron Permissible variation of 50 micron including testing of coating at plant extra cost for careful handling using PVC coating, binding wires instead of G. I. wires to and from Plant) touching up the material supplied repair work etc complete as per detailed specifications. (Lead 200km from plant) etc complete.	9503	55	Rupees Nine Thousand Five Hundred Three Paise FiftyFive Only	MT	13304.97			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
24	14.00	ITEM NO 24 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending,	94188	15	Rupees NinetyFour Thousand One Hundred EightyEight Paise Fifteen Only	MT	1318634.10			Bd.F.17, Page One Number 306 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
25	27.19	ITEM NO 25 Providing structural steel work in trusses, other similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting fixing in position, Making riveted/ bolted/ welded connection and one coat	125431	95	Rupees One Lakh TwentyFive Thousand Four Hundred ThirtyOne Paise NinetyFive Only	MT	3411105.20			Bd.C.8 Page One Number 278 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

26	1.00	ITEM NO. 26 Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint	106936	20	Rupees One Lakh Six Thousand Nine Hundred ThirtySix Paise Twenty Only	MT	106936.20			Bd.C.2 Page One Number 275 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
27	40.00	ITEM NO.27 Providing and fixing double scaffolding system (cup lock type) on The exterior side of building/structure, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations	292	95	Rupees Two Hundred NinetyTwo Paise NinetyFive Only	SMT	11718.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work(For Double Height Area only)

28	150.40	ITEM NO 28 Providing and fixing chicken mesh of 22 gauge, with about 30 cm. width at the junction of R.C.C members and brick work, of approved quality including fixing mesh in position by necessary drilling in concrete /B.B.masonry and or	59	85	Rupees FiftyNine Paise EightyFive Only	RMT	9001.53			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
29	103.40	ITEM NO 29 Providing Autoclaved Aerated Concrete Block masonry of conforming to IS:2185 (Part 3) - 1984 in extra fine jointing mortar of fixoblock of UltraTech or equivalent in superstructure including striking joints, raking out joints and scaffolding etc. Complete. (The test shall	7707	0	Rupees Seven Thousand Seven Hundred Seven Only	CMT	796897.98			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
30	607.54	ITEM NO 30 Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1 kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement	700	64	Rupees Seven Hundred Paise SixtyFour Only	SMT	425665.42			Bd.L.7 Page One Number 369 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
31	688.76	ITEM NO 31 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. SSR 32.04 / 209	305	40	Rupees Three Hundred Five Paise Fourty Only	SMT	210347.00			Bd. L.2 Page One Number 368 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

32	273.55	ITEM NO 32 Providing waterproof plaster in W.C. and bath 12 mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1 Kilogram. per bag of cement of approved make and manufacturer and curing etc. complete.	419	85	Rupees Four Hundred Nineteen Paise EightyFive Only	SMT	114848.29			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
33	1.00	ITEM NO 33 Providing and applying plaster with plaster of paris in 6mm thickness to previously plaster surface in all position including preparing the surface scaffolding etc. complete. SSR 32.27/210	151	20	Rupees One Hundred FiftyOne Paise Twenty Only	SMT	151.20			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
34	580.45	ITEM NO 34 Providing and applying plaster / wall punning with plaster of paris (with plaster of paris material) in 10 to 13 millimeter thickness to previously plastered surface / or on newly brick surface (Excluding rough cast plaster) in all position including preparing and	600	60	Rupees Six Hundred Paise Sixty Only	SMT	348620.67			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
35	580.45	ITEM NO 35 Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering	37	80	Rupees ThirtySeven Paise Eighty Only	SMT	21941.16			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
36	580.45	ITEM NO 36 Providing and applying pearl/ luster finish paint of approved colour and shade to the existing plaster surface including scaffolding, preparing the surface, applying the acrylic wall putti etc.	226	80	Rupees Two Hundred TwentySix Paise Eighty Only	SMT	131646.97			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

36	367.16	ITEM NO 36A Providing and applying Royale Luxury Emulsion of approved make on internal wall surface as detailed below Scrapping for surface with emery paper and wipe clean for area.wallprimer with brush by adding mineral turpentine oil by 8 to 10% or water by 15 to 20 % allowing to dry for 6 to 8 hours After applying acrylic wall putty with appropriate proportion of water of allow to dry for period of 4 to 6 hours of activity.Scrapping with emery paper and wipe clean Applying paints Royale Luxury emulsion 1st coat with brush water content water 40 to 45% or 65 to 70% by role Applying paints	288	75	Rupees Two Hundred EightyEight Paise SeventyFive Only	SMT	106017.45			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
37	607.54	ITEM NO 37 Providing and applying two coats Apex Ultima Puranature Anti-Pollution Or equivalent approved brand, paint should decomposes organic substances and inorganic gases(NOx, VOC's, CO, SOx, formaldehydes, etc.) in presence of natural or artificial light. It contains Graphene and nanoparticles of titanium oxide. and Absorbs CO2 (4.8 Kilogram/15 l). plaster crack should be filled by Acrylic base Crack seal/Textured Crack filler, Paint has to applied on one coat of Apex Ultima Puranature Anti-Pollution Primer or Equivalent. Warranty	390	60	Rupees Three Hundred Ninety Paise Sixty Only	SMT	237304.34			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

38	1.05	ITEM NO 38 Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm confirming to I.S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour	1256	39	Rupees One Thousand Two Hundred FiftySix Paise ThirtyNine Only	SMT	1319.21			Bd.M.12 Page One Number 385. As per Instruction given by Executive Engineer/ Site Engineer during execution of work
39	1.00	ITEM NO 39 Providing and laying ceramic tiles of having size 30 cm. x 30 cm. and confirming to corresponding I.S. for dado and skirting in required position with readymade adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with	1333	4	Rupees One Thousand Three Hundred ThirtyThree Paise Four Only	SMT	1333.04			Bd.M.13 Page One Number 386. As per Instruction given by Executive Engineer/ Site Engineer during execution of work
40	110.66	ITEM NO 40 Providing and laying vitrified mirror / glossy finish tiles decorative type having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar	1235	85	Rupees One Thousand Two Hundred ThirtyFive Paise EightyFive Only	SMT	136760.27			Bd.M. 12 Page One Number 385 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
41	199.04	ITEM NO 41 Providing and laying full body heavy duty, scratch resistant, high abrasion resistant vitrified mirror / glossy/ matt finish tiles for flooring decorative type having size 800 X 800, 1000 X 1000, 800 X 2400 mm (approved size) etc. of 10 to 12 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4	4069	0	Rupees Four Thousand SixtyNine Only	SMT	809893.76			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

42	395.97	ITEM NO 42 Providing and laying vitrified mirror / glossy finish tiles having size 590 mm to 605 mm x 590 mm to 605 mm of 8 to 10 mm thickness and confirming to IS. 15622-2006 (group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement	1314	60	Rupees One Thousand Three Hundred Fourteen Paise Sixty Only	SMT	520539.53			Bd.M. 12 Page One Number 385 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
43	90.46	ITEM NO 43 Providing and laying vitrified matt fininsh/Antiskid tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement morar including neat cement float, filling	1697	99	Rupees One Thousand Six Hundred NinetySeven Paise NinetyNine Only	SMT	153595.08			Bd.M.12 Page One Number 385 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
44	1.00	ITEM NO 44 Providing and laying machine cut machine Polished Kota stone flooring 25mm to 30mm thick and required width in plain/ diamond pattern on bed of 1:6 C. M. including cement float, filling joints with neat cement slurry,	1309	35	Rupees One Thousand Three Hundred Nine Paise ThirtyFive Only	SMT	1309.35			Bd.M.3 Page One Number 380 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
45	9.60	ITEM NO 45 Providing and laying in position flooring of telephone black / Amba White / Cat bary brown / Ruby red / Ocean Brown granite stone of approved shade and size 18 mm to 20 mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3	4225	20	Rupees Four Thousand Two Hundred TwentyFive Paise Twenty Only	SMT	40561.92			Bd.M. 3 B/Page One Number 380 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

46	1.00	ITEM NO 46 Providing and laying machine cut machine polished machine cut Kota stone slabs 20 to 25 mm thick for treads and risers of steps and staircases, with rounded nosing for the treads on a bed of 1:4 cement mortar including cement float, filling joints with neat cement	1670	39	Rupees One Thousand Six Hundred Seventy Paise ThirtyNine Only	SMT	1670.39			Bd.M.22 Page One Number 390 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
47	8.16	ITEM NO 47 Providing 25 mm to 30 mm thick partition of polished black kadappa stone slab of approved quality including giving required size and shape etc. Fixing in cement mortar 1:3 curing and cement	1216	95	Rupees One Thousand Two Hundred Sixteen Paise NinetyFive Only	SMT	9930.31			Bd.M.35 B/P One Number 393 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
48	6.75	ITEM NO 48 Providing and fixing machine cut mirror polished 18 mm to 20 mm thick telephone black granite / Amba White / Cat bary brown / RBI red / Ocean Brown granite stone partition with full moulding the edges etc. complete . Both	4224	45	Rupees Four Thousand Two Hundred TwentyFour Paise FortyFive Only	SMT	28515.04			Bd.M.35 B/Page One Number 393 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
49	29.35	ITEM NO 49 Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges	4605	30	Rupees Four Thousand Six Hundred Five Paise Thirty Only	SMT	135174.77			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

50	3.00	ITEM NO.50 Providing and constructing granite kitchen platform with fixing of stainless steel sink 600mmx450mm size as per detailed drawing including vertical both side polished kadappah stone 25to30mm thick supports with kadappah top 35 to 40mm thick and polished granite 16to20mm top with side strips of granite at front and both sides of platform raised with two vertical granite supports 15 cm height and top granite of 75 x 40 cm including cutting, opening for	10318	35	Rupees Ten Thousand Three Hundred Eighteen Paise ThirtyFive Only	SMT	30955.05			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
51	0.57	ITEM NO 51 Providing and fixing frame with / without ventilator of size as specified with Country cut teak wood for doors and windows including chamfering, rounding, rebating, iron holdfast of size 300mm x 40mm x 5mm with oil	210052	50	Rupees Two Lakh Ten Thousand FiftyTwo Paise Fifty Only	CMT	120259.26			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
52	15.96	ITEM NO 52 Providing and applying melamine polish of required finish to the wood work by spray machine including knotting and preparing the even surface by scraping, applying French polish , scaffolding if required etc. complete. Note:The work to be executed on prior approval of	870	45	Rupees Eight Hundred Seventy Paise FortyFive Only	SMT	13896.30			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

53	4.32	ITEM NO 53 Providing and fixing double/single leaf shutter(upto 50mm) for partly paneled partly glazed door without ventilator adopting sections and sizes as given in the standard specifications or as per detailed drawing, including fixtures / and fastenings and finishing the wood	16500	0	Rupees Sixteen Thousand Five Hundred Only	SMT	71280.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
54	12.33	ITEM NO.54 Providing & fixing in position 35 mm thick 1st quality water proof Single Leaf Flush Door for w.c. with 1.5mm thick laminate on both sides with 12x35mm lipping patti on all egdes. Rate is inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement, door stopper of make (ozone,Hettich,Hafle) 450 x 150mm	10847	0	Rupees Ten Thousand Eight Hundred FourtySeven Only	SMT	133743.51			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
55	2.88	ITEM NO 55 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock,	3232	95	Rupees Three Thousand Two Hundred ThirtyTwo Paise NinetyFive Only	SMT	9310.90			BD-T-34 Page One Number 499 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

56	12.96	ITEM NO 56 Providing and fixing solid core flush door shutter in double leaf 32 mm thick decorative type of exterior grade as per detailed drawings approved face veneers 3 mm thick on both faces or as directed, all necessary beads, mouldings and lipping, wrought iron hold fasts, chromium plated fixtures and fastenings, with brass mortise lock,	3973	20	Rupees Three Thousand Nine Hundred SeventyThree Paise Twenty Only	SMT	51492.67			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
57	18.72	ITEM NO 57 Providing and fixing in position. (as per I.S.1868 / 1982) Aluminium sliding window of three tracks with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/Running metre. and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/Running metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per	5777	10	Rupees Five Thousand Seven Hundred SeventySeven Paise Ten Only	SMT	108147.31			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

58	2.00	ITEM NO 58 Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc. complete. b) With powder coating Note While	6596	10	Rupees Six Thousand Five Hundred NinetySix Paise Ten Only	SMT	13192.20			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
59	2.88	ITEM NO 59 Providing and fixing in position b) Powder Coated aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineer in charge with all necessary aluminium sections including necessary fixtures and fastening such as 5 mm	6001	80	Rupees Six Thousand One Paise Eighty Only	SMT	17285.18			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
60	1.65	ITEM NO 60 Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type,	3640	35	Rupees Three Thousand Six Hundred Forty Paise ThirtyFive Only	SMT	5995.66			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
61	14.40	ITEM NO 61 Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38mm round Aluminium channel with Blackout fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge	2259	60	Rupees Two Thousand Two Hundred FiftyNine Paise Sixty Only	SMT	32538.24			light-filtering roller blinds/Blacout as per requirement As per Instruction given by Executive Engineer/ Site Engineer during execution of work

61	1.00	ITEM NO 61A Providing & fixing premium quality Roller blinds with prestress Solar protection fabric of high tenacity Polyester Yarn with PVC coating and fungi static treatment and should block the light flux & offer elimination of glare and sunlight /radiance etc. complete. Fabric shall have visible light & solar properties & greengaurd (gold) Indoor Air quality & children & school certified. Fabric composition - 39% Polyester / 61% PVC with alumium backing. Weight - 290 g/sq.m (+/- 5%) Thickness - 0.32 mm (+/- 5%) Fabric opennness factor - 3% Tensile strength (warp / weft) - 160/170 daN/5cm Tearing Strength (warp/weft) - 11/13	1641	0	Rupees One Thousand Six Hundred FourtyOne Only	SMT	1641.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
61	1.00	ITEM NO 61B Providing and Fixing Vertical Blinds of approved Make and shade of 100mm regular fabric with powder coated aluminium channel with telting PVC chain & bottom weight plate with all necessary fixtures and fitting etc. complete. (Sample to be final	1076	25	Rupees One Thousand SeventySix Paise TwentyFive Only	SMT	1076.25			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

62	13.50	ITEM NO 62 Providing waterproofing in W.C. and bath including brick bat coba in all position including providing and laying 12mm bedding in cement mortar 1:3 on vergin concrete slab with waterproofing compound @ 1Kilogram/per bag of cement laying brick bat coba of required thickness in cm 1:5 with waterproofing compound 1 Kilogram/bag of cement grouting and finishing the top layer with 20mm thick brick bedding in cm mortar 1:3 with waterproofing compound 1	7930	50	Rupees Seven Thousand Nine Hundred Thirty Paise Fifty Only	CMT	107061.75			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
63	1.00	ITEM NO 63 Providing cement based water proofing treatment to terraces (Indian water proofing or alike) with brick bats laid in required slope to drain the water for any span after cleaning the base surface. Applying a coat of cement slurry admixed with approved water proofing compound and laying the brick bats on bottom layer in C.M.1:5 admixed with approved water proofing compound filling up to half depth of brick bats, curing this layer for 3 days, applying cement slurry over this layer joints of brick bats with C.M.1:3 admixed with approved water proofing compound and finally top finishing with average 20 mm. thick layers of same mortar added with jute fiber at 1 Kg per bag including finishing the surface smooth with cement slurry admixed with approved water proofing compound. Marking	1373	24	Rupees One Thousand Three Hundred SeventyThree Paise TwentyFour Only	SMT	1373.24			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

64	635.97	ITEM NO. 64 Providing, fixing transporting and lifting upto 75ft of 80/114 mm corrugated Jinroc Roof Panel: Continuous line Mineralwool / Rockwool insulated corrugated panel having trapezoidal profile with max crest height of 34mm at maximum pitch of 250mm with Top & Bottom 0.5mm TCT PPGI sheet. The stonewool insulation shall be non-combustible grade of density 100 Kg/m3 with permissible tolerance as per IS 8183 and core shall be certified by EUCB as noncarcinogenic, bio-soluble. The insulation material should be completely non- combustible having class A1 as per EN13501-1, shall have melting point of more 10000C as per ASTM E794; approved by fire test standards UL 723 and ASTM E84, the SDI and FSL value should be 0 as per the UL 723 testing. The Stonewool slab shall be cut into Lamella, rotated & uniformly glued	6609	0	Rupees Six Thousand Six Hundred Nine Only	SMT	4203130.48			As per Instruction given by Executive Engineer/ Site Engineer during execution of work(All testing certificate are necessary)
		Sheet shall be of minimum 240 MPa RMP 120 GSM without guard film, 5-7microns epoxy primer on both side of the sheet and polyester top coat 20-25 micron. The sheet shall have plastic protective guard film of minimum 25 micron to avoid scratches during transportation – Kingspan Jindal. Providing and fixing Flashing for			0					0

65	100.00	ITEM NO.65 Providing and fixing valley gutter of 22 B.W.G. (0.8mm) plain galvanised iron sheets 120cm wide with teak wood planking 20mm thick including two coats of coal-tarring the upper surface of plank etc. complete. (excluding painting	3072	30	Rupees Three Thousand SeventyTwo Paise Thirty Only	RMT	307230.00			Bd. R. 10, Page One Number 455 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
66	360.00	ITEM NO. 66 Providing and fixing Jute Kantan (Tarat) screen to the scaffold-ing for external guniting as directed including removing the same after the work is over etc. complete. SSR 46.38 / 298	71	40	Rupees SeventyOne Paise Fourty Only	SMT	25704.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
67	1354.96	ITEM NO. 67 Providing of bamboo scaffolding for external area of building including cost of erection and dismantling of scaffolding etc. Spec. As directed by Engineer-In-Charge. Approved MR	65	57	Rupees SixtyFive Paise FiftySeven Only	SMT	88844.60			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
68	300.00	ITEM NO 68 Safety Net Garware Tripple Layer 5mm Braided + 2.5mmbraided+monofilament, Border and Tie Rope 12 mm ,5mm braided HDPE Twine with mesh size 100mmx100mm size monofilament uv stabilized net with welding /Grinding splatter resistance 120 GSM,TIE	550	0	Rupees Five Hundred Fifty Only	SMT	165000.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

69	1.00	ITEM NO 69 Providing and fixing mild steel grill railing 20 Kilogram/sq.m with teak wood hand rail of size 75mm x 60 mm.and sill of 75mm.x 25 mm.and newel posts for staircases, including fabricating, fixtures, erecting, painting the grill work with one coat of anti- corrosive paint and two coats of oil painting with	3331	65	Rupees Three Thousand Three Hundred ThirtyOne Paise SixtyFive Only	SMT	3331.65			Bd.U.2 Page One Number 537 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
70	10.00	ITEM NO 70 Providing and fixing Internal sinage ss brush finish 2 mm thick . Spec. As directed by Engineer-In-Charge. Approved MR	2400	0	Rupees Two Thousand Four Hundred Only	NOS	24000.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
71	20.00	ITEM NO 71 Providing and fixing of ss plate with engraving the as per required matter and colour the letters Approved MR	30	0	Rupees Thirty Only	SQ.INCH	600.00			Including engraving of letters/numerals as per drawing As per Instruction given by Executive Engineer/ Site Engineer during
72	20.00	ITEM NO 72 Providing and fixing name board on acrylic sheet with golden letters with required fixtures and fixing it at site without frame Approved MR	9	44	Rupees Nine Paise FourtyFour Only	SQ.INCH	188.80			Including Cutting/pastting of letters/numerals as per drawing As per Instruction given by Executive Engineer/
73	2.00	ITEM NO 73 Stainless steel nameplate : Providing and Fixing the 150mmx50mm Stainless steel nameplate as per specification provided by engineer incharge. Approved MR	275	0	Rupees Two Hundred SeventyFive Only	NOS	550.00			Including engraving of letters/numerals as per drawing As per Instruction given by Executive Engineer/ Site Engineer during

74	0.02	ITEM NO 74 Acrylic Board Name plate/Signages : Providing and Fixing Acrylic Board Namelate / Signages with 3-5mm Fixed with Fixtures and Fitting complete including Alphanumeric Letters as per specification provided by engineer	11375	0	Rupees Eleven Thousand Three Hundred SeventyFive Only	SMT	227.50			Including writing, Engraving, Embossing etc. As per Instruction given by Executive Engineer/ Site Engineer during
75	3.00	ITEM NO.75 Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :	2770	0	Rupees Two Thousand Seven Hundred Seventy Only	NOS	8310.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
76	1.00	ITEM NO 76 Providing and fixing in position after hoisting, precast 1:2 cement mortar reinforced jali 80 mm thick with 3 mm diameter mild steel bar reinforcement, of approved design on both sides, fixing in cement mortar 1:3 and curing etc	2259	60	Rupees Two Thousand Two Hundred FiftyNine Paise Sixty Only	SMT	2259.60			Bd. F. 20 Page One Number 308 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

77	367.16	ITEM NO. 77 Providing and fixing in position Gypsum board false ceiling with 12.5 mm thick Gypsum boards, screwed/fixed to the under structure of suspended G.I. Grid constructed and suspended from the main ceiling consisting of ceiling sections of size 25 x 50 mm maximum center to center distance of 600 milimetre perimeter channel and intermediate channels at maximum center to center distance 1200 milimetre galvanized grid should be fixed to reinforced cement concrete slab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate	1857	45	Rupees One Thousand Eight Hundred FiftySeven Paise FourtyFive Only	SMT	681981.25			Including drop design, curves, Other shapes as per drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work
78	35.12	ITEM NO.78 Providing and fixing Modular false ceiling of 600 x 600 mm center to center and 13 mm thick square mineral fiber board to be fixed on frame work of alluminium sections for suspended false ceiling consisting of alluminium T 2"x1 ½" (50 mm x 40 mm) weighing 0.39 Kilogram/m at 60 cms center center and fixed with ½" x ½" (15 x 15 mm) flanges weighing 0.19 Kilogram/m suspended on 6 mm dia mild steel rod weighing 0.22 Kilogram/m, fixed on wall and beams	2696	40	Rupees Two Thousand Six Hundred NinetySix Paise Fourty Only	SMT	94697.57			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

78	2.00	ITEM NO.78A Providing and fixing frame work of galvanised iron (above 0.6m and upto 1m drop height) for suspended P.V.C. false ceiling as per specification provided by the Engineer in charge; fixing screws mechanically either with screw driver or	2450	0	Rupees Two Thousand Four Hundred Fifty Only	SMT	4900.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work(In all colour and pattern as pproved)
79	45.48	ITEM NO.79 Providing and fixing Bevelled Mirror Panelling with 12mm thick commercial BWR plywood / MDF mounted on ply support frame work. Finished with veneer Border frame and melamine polish. Teakwood beading at corners, skirting level and false ceiling level, etc. as per drawing. Basic cost of veneer Rs.	5600	0	Rupees Five Thousand Six Hundred Only	SMT	254688.00			Fixed on approved base, including material required for fixing/sticking As per Instruction given by Executive Engineer/ Site Engineer during execution of work
80	132.00	ITEM NO. 80 Providing and supplying Café Chairs chair with cushioned. Spec. As directed by Engineer-In-Charge. Approved MR	9850	0	Rupees Nine Thousand Eight Hundred Fifty Only	NOS	1300200.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work and drawing
80	1.00	ITEM NO. 80A HIGH BACK CHAIR Providing and supplying center pivot, revolving, High back chair Depth- 45cm, width-50cm, height- 121cm to 131cm & seat height 45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be	15500	0	Rupees Fifteen Thousand Five Hundred Only	NOS	15500.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work

80	1.00	ITEM NO. 80B MID BACK CHAIR Providing and supplying center pivot, revolving, Mid back chair Depth-45cm, width-50cm, height- 105cm to 115cm & seat height- 45cm to 55cm. (+/- 2cm) with five legged metal / moulded nylon base with push back arrangement. Chairs shall have high density moulded, 360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest etc. complete. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy	12500	0	Rupees Twelve Thousand Five Hundred Only	NOS	12500.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work
80	1.00	ITEM NO. 80C Providing & Arrangemnt of High Back Chair - TILT MECHANISM WITH MULTILOCKING, HIGH DENSITY CUSHION ON SEAT COMPOSITE LEATHER WITH METALLIC SILVER FINISH BASE AND ARMS WITH P.U.CASTORS	16247	70	Rupees Sixteen Thousand Two Hundred FourtySeven Paise Seventy Only	NOS	16247.70			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/
80	1.00	ITEM NO. 80D Providing & Arrangemnt of Mld Back, Normal Syncro Mechanism , Fixed Armrest , Gaslift for Seat height adjustment, Standard 5-prong/Nylon Base with Leather Upholstery SSR 51.42 / 359	10041	15	Rupees Ten Thousand FourtyOne Paise Fifteen Only	NOS	10041.15			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/

80	1.00	ITEM NO. 80E VISITOR CHAIR Providing and supplying visitor chair having size Depth- 62cm, width-55cm, height-80cm & seat height 45 cm. (+/- 2cm), having seat & back, shall be made up of 1.2 cm hot pressed plywood, approved tapestry upto Rs.300/m and mould polyurethane foam with P.V.C. lipping all around etc. complete. The chair shall be provided with two one piece armrest made of polypropylene. The chair shall be supported by cantilever type powder coated tubular frame dia 2.54cm x 14 B G M.S.E.R.W. tube. All aluminium steel component shall have Epoxy Polyester Powder Coated. The chair shall be	9500	0	Rupees Nine Thousand Five Hundred Only	NOS	9500.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work
81	22.00	ITEM NO. 81 Providing and supplying Cafe table (Square shape) - with laminate finish with MS supports.(table size -out of 1.8 m x 0.90m) All wooden surfaces finished with melamine polish with moulding finish.location :-Cafe	30000	0	Rupees Thirty Thousand Only	NOS	660000.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/
82	10.00	ITEM NO. 82 Providing & fixing MDF Decorative moulding of size 38 x12mm Approved MR	97	0	Rupees NinetySeven Only	RMT	970.00			Material, color, quality as per Drawing/reference provided & Fixed on approved base, including material required for

83	450.00	ITEM NO. 83 Providing & fixing MDF Decorative moulding of size 38 x20mm Approved MR	108	0	Rupees One Hundred Eight Only	RMT	48600.00			Material, color, quality as per Drawing/reference provided & Fixed on approved base, including material required for
84	10.00	ITEM NO. 84 Providing and fixing on site VENEER FINISH WALL PANELING made by using approved quality seasoned T.W. framing of 38 x 25 mm at approximately 600 x 450 mm center to center or as per site conditions and covered by 12 mm thick marine ply generally conforming to I.S.303 /I.S.710- 1980 finished with 3 mm thick group match veneer of approved quality with groove pattern including all necessary end mouldings, moulding pattern, and melamine polish. Antitermite treatment	5346	0	Rupees Five Thousand Three Hundred FortySix Only	SMT	53460.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during execution of work
85	1.00	ITEM NO. 85 Providing and fixing 19 mm thick waterproof plywood (durian ucotech greenply, mars (marsgold 100% garjan), euro, orchid, century with phenol bonded etc (ISI) Approved MR	1763	0	Rupees One Thousand Seven Hundred SixtyThree Only	SMT	1763.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during
86	1.00	ITEM NO. 86 Providing and fixing 3mm thk. veneer with three coats of french polishing instead of synthetic enamel painting including all material and labour. MCGM R3-CS-WW-20-f	1249	0	Rupees One Thousand Two Hundred FortyNine Only	SMT	1249.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during

87	1.00	ITEM NO. 87 Providing and fixing 4mm thk. veneer with three coats of french polishing instead of synthetic enamel painting including all material and labour. MCGM R3-CS-WW-20-g	1293	0	Rupees One Thousand Two Hundred NinetyThree Only	SMT	1293.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during
88	1.00	ITEM NO. 88 Providing 4 mm thick veneer of National brand, cutting as per drawings and fixing with the help of Fevicol etc completed.(Second Quality) Approved MR	858	0	Rupees Eight Hundred FiftyEight Only	SMT	858.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during
88	1.00	ITEM NO. 88A Providing & fixing 1 mm thick laminate to flush doors instead of synthetic enamel painting including all material and labour. MCGM R3-CS-RM-131	1018	0	Rupees One Thousand Eighteen Only	SMT	1018.00			Including fevicol, nails other accessories etc. required for fixing As per Instruction given by Executive Engineer/ Site Engineer during
89	5.00	ITEM NO. 89 Providing and fixing Wall panelling on wall with 12mm thick commercial BWR plywood / MDF mounted on ply support frame work with laser cutting and backlit With LED Finishing includes covering with approved laminate finish the outside of plywood, Teakwood beading at corners, skirting level and false ceiling	7800	0	Rupees Seven Thousand Eight Hundred Only	SMT	39000.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work

90	5.00	ITEM NO. 90 Providing and fixing Wall panelling on wall with 12mm thick commercial BWR plywood / MDF mounted on ply support frame work with laser cutting and backlit With LED Finishing includes covering with approved Veneer finish the outside of plywood, Teakwood beading at corners, skirting level and false ceiling	9800	0	Rupees Nine Thousand Eight Hundred Only	SMT	49000.00			Material, color, quality as per Drawing/reference provided As per Instruction given by Executive Engineer/ Site Engineer during execution of work
91	5.00	ITEM NO.91 Providing & Fixing in position, Acoustical Panelling made from Fabric wrapped Compressed polyester fibre nonwoven 9 mm panels on, 50 x 50 mm sal-wood frame of 600 x 600 c to c having wooden supports from wall of required length, in front of 1000 gsm synthetic wool 50 mm thick with chicken mesh on wall side, including cost of required Cut-Outs, decorative mouldings / finishing-items / paint & Scaffolding, as per Architectural	4819	50	Rupees Four Thousand Eight Hundred Nineteen Paise Fifty Only	SMT	24097.50			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
91	1.00	ITEM NO.91A Providing & Fixing in position, Carpet more than 800+gsm, made with 100% stain proof fibres of approved make along with 5mm underlay as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour, finishing	1522	50	Rupees One Thousand Five Hundred TwentyTwo Paise Fifty Only	SMT	1522.50			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

92	5.00	ITEM NO 92 Sansevieria 6" Pots Height of plant-20 cm to 30 cm Providing and supplying indoor Sansevieria having plant height between 20 cm to 30 cm the plants shall be healthy, well-rooted, disease-free and free from any pest attack, suitable for indoor use, with adequate potting soil	215	25	Rupees Two Hundred Fifteen Paise TwentyFive Only	NOS	1076.25			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
93	10.00	ITEM NO 93 Areca Palm- 10" x 12" Height of plant-3 to 4 ft. Providing and supplying indoor Areca Palm plants having plant height between 3 ft to 4 ft. The plants shall be healthy, well-rooted, disease-free and free from any pest attack, suitable for indoor use, with adequate potting soil and sufficient	147	0	Rupees One Hundred FortySeven Only	NOS	1470.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
94	5.00	ITEM NO 94 Areca Palm - 13" x 13" Height of plant- 4 to 5 ft. Providing and supplying indoor Areca Palm plants having plant height between 3 ft to 4 ft. The plants shall be healthy, well-rooted, disease-free and free from any pest attack, suitable for indoor use, with adequate potting soil and sufficient	288	75	Rupees Two Hundred EightyEight Paise SeventyFive Only	NOS	1443.75			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

95	10.00	ITEM NO 95 Spathiphyllum 6" pots Height of plant- 20 cm to 30 cm Providing and supplying indoor Spathiphyllum plants having plant height between 20 cm to 30 cm. The plants shall be healthy, well-rooted, disease-free and free from any pest attack, suitable for indoor use, with adequate	86	10	Rupees EightySix Paise Ten Only	NOS	861.00			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		PLUMBING								
122		SANITARY FIXTURES								
96	4.00	ITEM NO.96 Providing and fixing European type wall-hung white water closet of Paryware / Hindware with push valve concealed type with cover plate 32mm size of JAQUAR MAKE SERIES FLV-1095 including soil pipe ,vent pipe up to outside face of wall ,100mm dia. G.I. plug bend inlet pipe all fittings,	13010	55	Rupees Thirteen Thousand Ten Paise FiftyFive Only	Nos.	52042.2			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
97	2.00	ITEM NO.97 Providing and fixing Orissa type white glazed earthenware water closet pan of size 260mm x 440mm x 580mm with approved make Slim wall hung cistern with installation kit including S or P trap with cast iron soil and vent pipe upto outside face of the wall 1:2:4 brick bat lime concrete bedding without flushing	3525	90	Rupees Three Thousand Five Hundred TwentyFive Paise Ninety Only	Nos.	7051.8			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
98	6.00	ITEM NO.98 Providing and fixing C.P. Two way BIB cock of approved make continental including necessary sockets/union nut etc. complete.	1531	95	Rupees One Thousand Five Hundred ThirtyOne Paise NinetyFive Only	Nos.	9191.7			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

99	6.00	ITEM NO.99 Providing and fixing 15 mm diameter PVC Aqua kraft type super jet spray with flange 2 in 1 faucet 1.50 metre long including all accessories etc complete	808	50	Rupees Eight Hundred Eight Paise Fifty Only	Nos.	4851			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
100	8.00	ITEM NO.100 Providing and fixing C.P. BIB cock with wall flange continental including necessary sockets/ union nut etc. complete.	1163	40	Rupees One Thousand One Hundred SixtyThree Paise Fourty Only	Nos.	9307.2			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
101	8.00	ITEM NO.101 Providing and fixing C.P. pillar cock long neck with aerator of approved make continental including necessary sockets/union nut etc. complete.	1706	25	Rupees One Thousand Seven Hundred Six Paise TwentyFive Only	Nos.	13650			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
102	6.00	ITEM NO.102 C.P.Toilet paper holder jaquar make continental (Cat. No. AQ 7751) SSR 232/683	1048	95	Rupees One Thousand FortyEight Paise NinetyFive Only	Nos.	6293.7			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
103	8.00	ITEM NO.103 Providing and fixing Oval Type Under Counter Wash Hand Basin of 420 x 590 x 195mm size with pillar cock, C.P.Angular stop cock, long thread of approved make continental including SS bottle trap of necessary pipe connection up to the outside face of the wall, having Telephonic Black / Colour Granite of 180	20883	45	Rupees Twenty Thousand Eight Hundred EightyThree Paise FortyFive Only	Nos.	167067.6			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
104	20.00	ITEM NO.104 Providing and fixing C.P. Angular stop cock with wall flange of approved make continental including necessary sockets/union nut etc. complete.	2821	35	Rupees Two Thousand Eight Hundred TwentyOne Paise ThirtyFive Only	Nos.	56427			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

105	5.00	ITEM NO.105 Providing and fixing white glazed urinal with Pressmatic auto closing valve having flow rate up to 4.0 Litr/Minute of Jaquar/Cera/Hindware /Perryware or equivalent make with P.V.C. waste pipe with fitting arrangement etc.complete as directed by Engineer in charge.(Make shall conform to manufacturer's Green	10910	55	Rupees Ten Thousand Nine Hundred Ten Paise FiftyFive Only	Nos.	54552.75			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
106	12.00	ITEM NO.106 Providing and fixing 10 cm PVC nahani trap with grating etc. complete. SSR 42.67	565	95	Rupees Five Hundred SixtyFive Paise NinetyFive Only	Nos.	6791.4			BD.V 32 A page 551 As per Instruction given by Executive Engineer/ Site Engineer during
107	1.00	ITEM NO.107 Providing and fixing white glazed earthenware sink 600mm x200mm x450mm including all connection of the G.I. supply and P.V.C. waste pipes upto the outside face of the wall, cold water chromiumplated screw down bib tap,	5958	75	Rupees Five Thousand Nine Hundred FiftyEight Paise SeventyFive Only	Nos.	5958.75			Bd.V.31 Page One Number 566 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
108	2.00	ITEM NO. 108 Providing and fixing chromiumplated towel rod 16mmdia and 75 cm. in length including all accessories complete. SSR 42.31/ 277	313	95	Rupees Three Hundred Thirteen Paise NinetyFive Only	Nos.	627.9			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		INTERNAL WATER SUPPLY SYSTEM								
109		ITEM NO.109 Providing and fixing on walls/ ceiling/ floor CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and								

	25.00	a) 15mm dia. SSR 42.55	279	30	Rupees Two Hundred SeventyNine Paise Thirty Only	Rmt.	6982.5			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	30.00	b) 20mm dia. SSR 42.56	325	50	Rupees Three Hundred TwentyFive Paise Fifty Only	Rmt.	9765			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	25.00	c) 25mm dia. SSR 42.57	393	75	Rupees Three Hundred NinetyThree Paise SeventyFive Only	Rmt.	9843.75			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	20.00	e) 32mm dia SSR 42.58	452	55	Rupees Four Hundred FiftyTwo Paise FiftyFive Only	Rmt.	9051			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	20.00	f) 40mm dia. SSR 42.59	565	95	Rupees Five Hundred SixtyFive Paise NinetyFive Only	Rmt.	11319			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

	10.00	g) 50mm dia. SSR 42.60	778	5	Rupees Seven Hundred SeventyEight Paise Five Only	Rmt.	7780.5			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
110	15.00	ITEM NO.110 Supplying and erecting GI pipe 32mm dia'C' class at position with accessories complete as per specification no. CW- PLB/GP. CSR 16-5-10	405	0	Rupees Four Hundred Five Only	Rmt.	6075			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
111	10.00	ITEM NO.111 Supplying and erecting GI pipe 40 mm dia'C' class at position with accessories complete as per specification no. CW- PLB/GP. CSR 16-5-11	461	0	Rupees Four Hundred SixtyOne Only	Rmt.	4610			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
112	15.00	ITEM NO.112 Supplying and erecting ISI mark GI pipe 50 mm dia.'C' class at position with accessories complete as per specification no. CW-PLB/GP. CSR 16-5-12	680	0	Rupees Six Hundred Eighty Only	Rmt.	10200			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
113	2.00	ITEM NO.113 Supplying and erecting 25 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-32	1260	0	Rupees One Thousand Two Hundred Sixty Only	Nos.	2520			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

114	2.00	ITEM NO.114 Supplying and erecting 20 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-31	956	0	Rupees Nine Hundred FiftySix Only	Nos.	1912			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
115	2.00	ITEM NO.115 Supplying and erecting 25 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-32	1260	0	Rupees One Thousand Two Hundred Sixty Only	Nos.	2520			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
116	1.00	ITEM NO.116 Supplying and erecting 32 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-33	1476	0	Rupees One Thousand Four Hundred SeventySix Only	Nos.	1476			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
117	2.00	ITEM NO.117 Supplying and erecting 40 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-33	1476	0	Rupees One Thousand Four Hundred SeventySix Only	Nos.	2952			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
118	2.00	ITEM NO.118 Supplying and erecting 50 mm dia gun metal gate valve complete with PN16 pressure rating, as per specification no. FF-VL/GV CSR 13-7-34	1524	0	Rupees One Thousand Five Hundred TwentyFour Only	Nos.	3048			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

119	6.00	ITEM NO.119 Supplying and erecting 20/25 mm dia gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV CSR 13-8-13	884	0	Rupees Eight Hundred EightyFour Only	Nos.	5304			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
120	1.00	ITEM NO.120 Supplying, erecting, testing and commissioning self contained water cooler 230/250 Volts 50 cycles nominal cooling capacity of 150 litres per hour and storage capacity 150 litres with partially stainless steel body as per specification No. AP-WCR/WC	53353	0	Rupees FiftyThree Thousand Three Hundred FiftyThree Only	Each	53353			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		SOIL, WASTE, VENT & RAIN WATER								
121	30.00	ITEM NO.121 Providing and fixing on walls /ceiling/ floor 40 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking	546	0	Rupees Five Hundred FourtySix Only	Rmt.	16380			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
122	35.00	ITEM NO.122 Providing and fixing on walls/ ceiling/ floor 50 mm dia. uPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. SSR 42.94	758	10	Rupees Seven Hundred FiftyEight Paise Ten Only	Rmt.	26533.5			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work

123	60.00	ITEM NO.123 Providing, laying and fixing P.V.C. pipe of 75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and	452	55	Rupees Four Hundred FiftyTwo Paise FiftyFive Only	Rmt.	27153			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
124	50.00	ITEM NO.124 Providing, laying and fixing P.V.C. pipe of 110 mm. dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and	623	70	Rupees Six Hundred TwentyThree Paise Seventy Only	Rmt.	31185			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
125	10.00	ITEM NO.125 P.V.C. pipe 160mm dia. Soil Pipe SSR PAGE NO.542 SR.NO.193	808	50	Rupees Eight Hundred Eight Paise Fifty Only	Rmt.	8085			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
126	4.00	ITEM NO.126 Providing and fixing 10 cm PVC nahani trap with grating etc. complete. (KHURRA) SSR 42.67	565	95	Rupees Five Hundred SixtyFive Paise NinetyFive Only	Nos.	2263.8			BD.V 32 A page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		ELECTRICAL								
		ELECTRICAL WIRING								
127	50.00	ITEM NO.127 Supplying & erecting ISI mark Rigid Steel conduit 16 SWG 20 mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no.1.2.3	214	0	Rupees Two Hundred Fourteen Only	Rmt.	10700			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

128	1500.00	ITEM NO.128 Supplying & erecting HMS PVC conduit 20mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC.	104	0	Rupees One Hundred Four Only	Rmt.	156000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
129	2200.00	ITEM NO.129 Supplying & laying HMS PVC conduit 20mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification no. WG-MA/CC.	90	0	Rupees Ninety Only	Rmt.	198000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
130	2500.00	ITEM NO.130 Supplying & erecting HMS PVC conduit 25mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC.	116	0	Rupees One Hundred Sixteen Only	Rmt.	290000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
131	3500.00	ITEM NO.131 Supplying & laying HMS PVC conduit 25mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification WG-MA/CC.	102	0	Rupees One Hundred Two Only	Rmt.	357000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
132	10.00	ITEM NO.132 Supplying & erecting HMS PVC conduit 32mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC.	153	0	Rupees One Hundred FiftyThree Only	Rmt.	1530			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
133	10.00	ITEM NO.133 Supplying & laying HMS PVC conduit 32mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification no. WG-MA/CC.(PROVISIONAL QTY)	139	0	Rupees One Hundred ThirtyNine Only	Rmt.	1390			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
134	10.00	ITEM NO.134 Supplying and erecting 25mm dia. corrugated flexible polypropylene conduit CSR 1-2-2	19	0	Rupees Nineteen Only	Rmt.	190			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

135	5000.00	ITEM NO.135 Supplying & erecting mains with 2x1.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places as per specification no. WG-MA/BW	46	0	Rupees FourtySix Only	Rmt.	230000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
136	1200.00	ITEM NO.136 Supplying & erecting mains with 2x1.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places as per specification no. WG-MA/BW(GREEN	23	0	Rupees TwentyThree Only	Rmt.	27600			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
137	3500.00	ITEM NO.137 Supplying & erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places. as per specification no. WG-MA/BW	71	0	Rupees SeventyOne Only	Rmt.	248500			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
138	1000.00	ITEM NO.138 Supplying & erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places. as per specification no. WG-MA/BW (GREEN	36	0	Rupees ThirtySix Only	Rmt.	36000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
139	50.00	ITEM NO.139 Supplying & erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places. as per specification no. WG-MA/BW Continuous earth wire size shall be	99	0	Rupees NinetyNine Only	Rmt.	4950			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
140	100.00	ITEM NO.140 Supplying & erecting mains with 3x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/bus bars or any other places as per specification no.	107	0	Rupees One Hundred Seven Only	Rmt.	10700			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

141	10.00	ITEM NO.141 Supplying and erecting ISI mark Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendent holder bakelite base 6A. erected on Filled polypropylene ISI marked (IS:14772-	43	0	Rupees FourtyThree Only	Nos.	430			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
142	75.00	ITEM NO.142 Supplying and erecting modular type switch 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete. CSR 1-6-1	72	0	Rupees SeventyTwo Only	Nos.	5400			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
143	5.00	ITEM NO.143 Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	108	0	Rupees One Hundred Eight Only	Nos.	540			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
144	55.00	ITEM NO.144 Supplying and erecting modular type switch one way 16/20 A on provided plate and box with wiring connections complete with neon indicator.	128	0	Rupees One Hundred TwentyEight Only	Nos.	7040			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
145	30.00	ITEM NO.145 Supplying and erecting modular type 3 pin 6A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring	116	0	Rupees One Hundred Sixteen Only	Nos.	3480			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
146	40.00	ITEM NO.146 Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with	186	0	Rupees One Hundred EightySix Only	Nos.	7440			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

147	2.00	ITEM NO.147 Supplying and erecting modular type T.V. socket single outlet on provided plate and box with wiring connections complete	109	0	Rupees One Hundred Nine Only	Nos.	218			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
148	1.00	ITEM NO.148 Supplying and erecting modular type telephone socket one gang with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	114	0	Rupees One Hundred Fourteen Only	Nos.	114			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
149	1.00	ITEM NO.149 Supplying and erecting modular type computer Jack RJ 45 with safety shutter ISI mark approved make duly erected on	152	0	Rupees One Hundred FiftyTwo Only	Nos.	152			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
150	20.00	ITEM NO.150 Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box.	24	0	Rupees TwentyFour Only	Nos.	480			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
151	15.00	ITEM NO.151 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to	231	0	Rupees Two Hundred ThirtyOne Only	Nos.	3465			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

152	8.00	ITEM NO.152 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to	234	0	Rupees Two Hundred ThirtyFour Only	Nos.	1872			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
153	20.00	ITEM NO.153 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to	269	0	Rupees Two Hundred SixtyNine Only	Nos.	5380			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
154	8.00	ITEM NO.154 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match	298	0	Rupees Two Hundred NinetyEight Only	Nos.	2384			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
155	15.00	ITEM NO.155 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	389	0	Rupees Three Hundred EightyNine Only	Nos.	5835			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

156	5.00	ITEM NO.156 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	454	0	Rupees Four Hundred FiftyFour Only	Nos.	2270			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
157	5.00	ITEM NO.157 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	544	0	Rupees Five Hundred FourtyFour Only	Nos.	2720			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
158	10.00	ITEM NO.158 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 16 / 18 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the	614	0	Rupees Six Hundred Fourteen Only	Nos.	6140			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
159	1.00	ITEM NO.159 Supplying and erecting modular popup Box 8 module with provided AV/ HDMI , RJ 45,6 A electrical sockets and switch on provided table . CSR 1-6-57	3162	0	Rupees Three Thousand One Hundred SixtyTwo Only	Nos.	3162			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

160	10.00	ITEM NO.160 Supplying, erecting & terminating 2 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, nylon rip cord & grey colour sheathed with FR PVC, confirming to ITD specification S/WS 113C laid in provided PVC casing-n-	24	0	Rupees TwentyFour Only	m	240			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
161	50.00	ITEM NO.161 Supplying, erecting & terminating 10 pair, 0.5mm dia, jelly filled unarmoured telephone copper cable with poly-al laminate moisture barrier, laid in provided PVC casing-n-capping/conduit	110	0	Rupees One Hundred Ten Only	m	5500			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
162	20.00	ITEM NO.162 Supplying, erecting & terminating co-axial copper cable low voltage grade tri shielded RG-6 as per specification no. WG-TW	42	0	Rupees FortyTwo Only	m	840			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
163	1.00	ITEM NO.163 Supplying, installing, testing & commissioning digital (hybrid) type EPABX of 6x 32 universal extensions suitable upto 96 extensions compliant to IEC61000, EN 60950, CISPR 22, IS:9000 part 2/section 4 having LAN/WAN port, USB port, RS232 port as per	66769	0	Rupees SixtySix Thousand Seven Hundred SixtyNine Only	Nos.	66769			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
164	50.00	ITEM NO.164 Supplying and installing FR PVC sheathed HDPE insulated copper cat-6 cable suitable for networking compliant with ANSI/TIA-568.2-D standards in provided conduit/casing-n-capping as per specification no. WG-ELVC/NC	57	0	Rupees FiftySeven Only	RM	2850			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		LIGHT FITTINGS			0					

165	25.00	ITEM NO.165 Supplying and erecting LED square / circular Max. 11 W down lighter/Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1200 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating rang of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver,	807	0	Rupees Eight Hundred Seven Only	NOS	20175			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
166	50.00	ITEM NO.166 Supplying and erecting LED square / circular Max. 18 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 2000 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B0 including driver, having mounting	1544	0	Rupees One Thousand Five Hundred FortyFour Only	NOS	77200			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

167	1.00	ITEM NO.167 Supplying and erecting LED square / circular Max. 25 W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 2750 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for	1945	0	Rupees One Thousand Nine Hundred FortyFive Only	NOS	1945			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
168	50.00	ITEM NO.168 Supplying and erecting LED Panel Light (600mm X 600mm) Max. 30 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 3600 Lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with	2487	0	Rupees Two Thousand Four Hundred EightySeven Only	NOS	124350			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
169	5.00	ITEM NO.169 Supplying and erecting LED Strip light Max. 45 W IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs at L70B50 including driver with minimum 1	1889	0	Rupees One Thousand Eight Hundred EightyNine Only	NOS	9445			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

170	1.00	ITEM NO.170 Supplying LED concealed type foot / step light with aluminium body for indoor / outdoor application suitable for 4W - 6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with minimum 1 year warranty as per specification No. FG-	1915	0	Rupees One Thousand Nine Hundred Fifteen Only	NOS	1915			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
171	76.00	ITEM NO.171 Making suitable size recess in any type of false ceiling for erection of flush type down lighter and finishing the background to match the original surface upto 20W as per specification No. FG-IDF/LED.	63	0	Rupees SixtyThree Only	NOS	4788			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
172	50.00	ITEM NO.172 Making suitable size of recess in any type of false ceiling for erection of flush type LED panel light 600mm x 600mm / 1200x300mm and finishing the background to match the original ceiling	138	0	Rupees One Hundred ThirtyEight Only	NOS	6900			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
173	3.00	ITEM NO.173 Supplying and erecting Bulk Head LED fitting Max. 10W with high transitivity diffuser with system lumens output of Min. 1100 lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., THD<10%, p.f. >0.95, operating range of 140-260V, in built surge protection of 2.5 kV, Life class of 50,000 Hrs at L70B50, IP66, IK09 rated including driver IP66, IK09 rated on	1423	0	Rupees One Thousand Four Hundred TwentyThree Only	NOS	4269			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

174	6.00	ITEM NO.174 Supplying and erecting anodized aluminium mirror light LED fitting (2 feet) Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple<5%, THD<20%, p.f. >0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs at L70B50 including	455	0	Rupees Four Hundred FiftyFive Only	NOS	2730			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
175	35.00	ITEM NO.175 Supplying and erecting CRCA powder coated light LED fitting (4 feet) Max. 22W with high transitivity diffuser with system lumens output of Min. 4000 lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs at L70B50 , IP20 rated	802	0	Rupees Eight Hundred Two Only	NOS	28070			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
176	1.00	ITEM NO.176 Supplying and erecting cabin fan of A.C. 230 V. 50 cycles 250 mm. /300 mm. sweep complete with necessary brackets for fixing cabin fans, wire	1848	0	Rupees One Thousand Eight Hundred FortyEight Only	NOS	1848			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
177	25.00	ITEM NO.177 Supplying and erecting Energy Saving BLDC Ceiling fan 230 V A.C. 50 cycles 1200 mm, max. energy consumption of 28W having service ratio (CMM/W) of Min. 8 , PF>0.9, THD<10% with IR remote control/compatible speed regulator, Temperature Rise of Max. 40 deg. C, having external mounted control	4499	0	Rupees Four Thousand Four Hundred NinetyNine Only	Each	112475			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

178	25.00	ITEM NO.178 Supplying & fixing anchor type fastener fan hook, with 2 nos. of 10 mm dia x 75 mm long with necessary materials for ceiling fan.	107	0	Rupees One Hundred Seven Only	Each	2675			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
179	25.00	ITEM NO.179 Supplying and erecting fan hook box of 10 mm M.S. round bar bounded to the R.C.C. bars upto 50 mm length each side and pierced through a 16 S.W.G. thick aluminium/M.S. Bowl 100 mm dia.or equivalent square size and having depth upto 75 mm complete erected with duly painted by one coat of red oxide paint and two coats of paint erected in	186	0	Rupees One Hundred EightySix Only	Each	4650			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
180	50.00	ITEM NO 180 Supplying and erecting led profile light 12 w conforming IP 65 of any colour with driver complete. Spec. As directed by Engineer-In-Charge.	2580	0	Rupees Two Thousand Five Hundred Eighty Only	Rmt.	129000			Including all fixtures, color of light as specified, Testing & commissioning
181	15.00	ITEM NO 181 Supplying and erecting (OSDL 1055)SPOT LED fitting 5W/10w/15w with high transitivity diffuser :-Clear lumen/W, CRI>80, CCT upto 3000K/4000k/6000k, Hosing: Spun Aluminium, IP40,	1299	0	Rupees One Thousand Two Hundred NinetyNine Only	Nos	19485			Including all fixtures, color of light as specified, Testing & commissioning As per Instruction given
182	10.00	ITEM NO 182 Supplying and erecting (OSDL 1057)SPOT LED fitting 20w/30w with high transitivity diffuser :-Clear lumen/W, CRI>80, CCT upto 3000K/4000k/6000k, Hosing: Spun	1416	0	Rupees One Thousand Four Hundred Sixteen Only	Nos	14160			Including all fixtures, color of light as specified, Testing & commissioning As per Instruction given by Executive Engineer/

183	10.00	ITEM NO 183 Supplying and erecting Uplighter Wall lights (OWL 402) Wall lights led:- 18w/ 40w with high transitivity diffuser :- Clear/Frosted Toughened Glass, CCT upto 3000K/4000k/6000k, Hosing: Aluminium, IP65, Durable and Vandal resistant complete with all fixtures As	2150	0	Rupees Two Thousand One Hundred Fifty Only	Nos	21500			Including all fixtures, color of light as specified, Testing & commissioning As per Instruction given by Executive Engineer/ Site Engineer during
184	10.00	ITEM NO 184 Supplying and erecting Uplighter Wall lights (OWL 406) Wall lights led:- 2X18w/ 2X40w with high transitivity diffuser :-Clear/Frosted Toughened Glass, CCT upto 3000K/4000k/6000k, Hosing: Aluminium, IP65,	4500	0	Rupees Four Thousand Five Hundred Only	Nos	45000			Including all fixtures, color of light as specified, Testing & commissioning As per Instruction given by Executive Engineer/ Site Engineer during
185	15.00	ITEM NO 185 Supply, Installation Testing and Commissioning of the following light fixture with all necessary accessories to make it complete. LED 5W Wall Washer	5941	0	Rupees Five Thousand Nine Hundred FourtyOne Only	Nos	89115			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
186	20.00	ITEM NO 186 Supply, Installation Testing and Commissioning of the following light fixture with all necessary accessories to make it complete. LED Hanging Light- 20W	7540	0	Rupees Seven Thousand Five Hundred Fourty Only	Nos	150800			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
186	10.00	ITEM NO 186A Supplying and erecting Magnetic Surface Track Channels (size 32mm x 50mm, Upto 2m length)with available material in Aluminium, Black color, Magnetic	7999	0	Rupees Seven Thousand Nine Hundred NinetyNine Only	NOS	79990			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

186	25.00	ITEM NO 186B 15 W TRACK LIGHT WITH COB LED & EXTRUDED ALUMINIUM HOUSING Approved MR	1150	0	Rupees One Thousand One Hundred Fifty Only	NOS	28750			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		UPS								
187	1.00	ITEM NO.187 Supplying, erecting, testing & commissioning of 3 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.8 to unity output pf ,1 phase input & 1 phase output complete with all protections as per specification no.	51298	0	Rupees FiftyOne Thousand Two Hundred NinetyEight Only	Nos.	51298			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
188	3.00	ITEM NO.188 Supplying and erecting 12 V/65Ah SMF battery with battery terminal wire, duly charged complete with 24 months warranty complete. for 15 mins battery	6683	0	Rupees Six Thousand Six Hundred EightyThree Only	Nos.	20049			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		SWITCHGEARS, DBs, PANELS								
189	3.00	ITEM NO.189 Supplying, erecting & marking SPMCB 0.5A to 5A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no.	250	0	Rupees Two Hundred Fifty Only	Nos.	750			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
190	18.00	ITEM NO.190 Supplying, erecting & marking SP MCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per	174	0	Rupees One Hundred SeventyFour Only	Nos.	3132			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
191	30.00	ITEM NO.191 Supplying, erecting & marking SP MCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per	173	0	Rupees One Hundred SeventyThree Only	Nos.	5190			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

192	1.00	ITEM NO.192 Supplying, erecting & marking SP MCB 40A to 63A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per	369	0	Rupees Three Hundred SixtyNine Only	Nos.	369			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
193	1.00	ITEM NO.193 Supplying, erecting & marking SP MCB 40A to 63A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per	351	0	Rupees Three Hundred FiftyOne Only	Nos.	351			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
194	2.00	ITEM NO.194 Supplying, erecting & marking DPMCB 6A to 32A ,B-series with rated short circuit breaking capacity (Icn) 10kA in provided distribution board as	510	0	Rupees Five Hundred Ten Only	Nos.	1020			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
195	2.00	ITEM NO.195 Supplying, erecting & marking TP MCB 40A to 63A, with rated short- circuit breaking capacity(Icn) 10kA in provided distribution board as per specification no.	992	0	Rupees Nine Hundred NinetyTwo Only	Nos.	1984			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
196	2.00	ITEM NO.196 Supplying, erecting & marking FP MCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification	1059	0	Rupees One Thousand FiftyNine Only	Nos.	2118			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
197	2.00	ITEM NO.197 Supplying, erecting & marking FP MCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification	1329	0	Rupees One Thousand Three Hundred TwentyNine Only	Nos.	2658			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

198	1.00	ITEM NO.198 Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 8 ways/phase (24 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame (horizontal busbar type)	3317	0	Rupees Three Thousand Three Hundred Seventeen Only	Nos.	3317			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
199	2.00	ITEM NO.199 Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 12 ways/phase (36 poles), with door, 1.2mm thickness surface/flush mounted, IP43 Protection provided on iron/GI frame (horizontal busbar type) as per specification no. SW-	4118	0	Rupees Four Thousand One Hundred Eighteen Only	Nos.	8236			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
200	6.00	ITEM NO.200 Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB/TP MCB/FP MCB/RCCB/RCBO complete erected on provided angle iron/GI frame -Lifts,UPS,	408	0	Rupees Four Hundred Eight Only	Nos.	2448			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
201	10.00	ITEM NO.201 Supplying and erecting blanking plate of suitable size on MCBDB. CSR 5-4-16	17	0	Rupees Seventeen Only	Nos.	170			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
202	1.00	ITEM NO.202 Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole MCCB as incomer & outgoing SP MCB (24 poles) or TP MCB of 8 ways (24 poles), with door, 1.2mm thickness, surface/flush mounted, on provided iron/GI frame (vertical busbar type) as	8890	0	Rupees Eight Thousand Eight Hundred Ninety Only	Nos.	8890			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

203	1.00	ITEM NO.203 Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole MCCB as incomer & outgoing SP MCB (36 poles) or TP MCB of 12 ways (36 poles), with door, 1.2mm thickness, surface/flush mounted, on provided iron/GI frame (vertical busbar type) as	9991	0	Rupees Nine Thousand Nine Hundred NinetyOne Only	Nos.	9991			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
204	2.00	ITEM NO.204 Providing & erecting 4 Pole MCCB, 415V, up to 100A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/UV/trip alarmcontact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load	6969	6	Rupees Six Thousand Nine Hundred SixtyNine Paise Sixty Only	Nos.	13939.2			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
205	3.00	ITEM NO.205 Supplying, erecting & commissioning 2 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB.	2136	0	Rupees Two Thousand One Hundred ThirtySix Only	Nos.	6408			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
206	3.00	ITEM NO.206 Supplying, erecting & commissioning 2 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB.	2327	0	Rupees Two Thousand Three Hundred TwentySeven Only	Nos.	6981			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
207	3.00	ITEM NO.207 Supplying, erecting & commissioning pole 2 RCCB 63A,, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification	2815	0	Rupees Two Thousand Eight Hundred Fifteen Only	Nos.	8445			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

208	1.00	ITEM NO.208 Supplying, erecting & commissioning pole 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification	3092	0	Rupees Three Thousand NinetyTwo Only	Nos.	3092			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
209	1.00	ITEM NO.209 Providing & erecting floor/wall mounting, MCCB panel board, with door, suitable for 4 pole incoming 250A, 8 ways 4 pole outgoing, upto 100A MCCBs on iron frame, as per specification no. SW-MCCBPB. (Excluding MCCBs)-Floor DB	54900	0	Rupees FiftyFour Thousand Nine Hundred Only	Nos.	54900			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
210	1.00	ITEM NO.210 Providing & erecting incoming and outgoing cable alley suitable for MCCB panel board with door, 250A incoming and 8 way outgoing or 400A incoming and 6 way outgoing made from CRCA sheet 1.6mm thick duly powder coated and having vertical insulated partition	18063	0	Rupees Eighteen Thousand SixtyThree Only	Set	18063			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
211	10.00	ITEM NO.211 Providing and fixing sheet metal work in CRCA sheet with fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, rivetting etc. treated with anti-rust treatment and duly powder coated or painted with one coat of red lead paint and 2 coats of enamel paint as directed. For manufacturing of panel, CRCA sheet of min 1.6 mm to 1.8 mm	261	0	Rupees Two Hundred SixtyOne Only	kg.	2610			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

212	5.00	ITEM NO.212 Supplying, erecting, testing & commissioning of any size electrolyte aluminium patti or bar in bus bar chamber / in panel or any other purpose, 500 V with require capacity 99.9% aluminium purity with E91E Grade as per IS 5082 & current density 0.8 A per sq mm with fixing arrangement (like lug or bottle type lug) to both the end with high grade polyolefin insulation	723	0	Rupees Seven Hundred TwentyThree Only	kg.	3615			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
213	1.00	ITEM NO.213 Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5, 3x240V, 50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer	8982	0	Rupees Eight Thousand Nine Hundred EightyTwo Only	Nos.	8982			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
214	1.00	ITEM NO.214 Supplying and erecting intelligent flush mounted panel meter three phase four wire (IPM) input voltage measurement range 50-550 V AC (P-P) 415V, aux. supply 90-300 V AC/DC, flush mounted (96 x 96 mm) meter constant Wh viewing in LCD multifunction meters in auto scroll mode with voltage, current, frequency, power factor kW, kVA, kVAR, kWh, kVAh, kVARh, phase angle,	9436	0	Rupees Nine Thousand Four Hundred ThirtySix Only	Nos.	9436			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

215	1.00	ITEM NO.215 Supplying and erecting three phase 10 to 60 A net meter DLMS compliance of accuracy class 1.0, 3 x 240V, 50 Hz, with backlit LCD display, optical port and RS232 port (measures import kWh, kVAh, export kWh, kVAh, Net kWh, kVAh,V, I, kW, 6 months history of energy) with wiring connections and	12298	0	Rupees Twelve Thousand Two Hundred NinetyEight Only	Nos.	12298			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
216	3.00	ITEM NO.216 Supplying and erecting selector switch suitable for voltmeter/ammeter for 3 phase AC supply 500V, 50Hz, on provided box/panel and duly connecting with necessary PVC wire leads and lugs	355	0	Rupees Three Hundred FiftyFive Only	Nos.	1065			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
217	1.00	ITEM NO.217 Providing and erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio with 15VA burden erected in provided CRCA box duly secured with	1175	0	Rupees One Thousand One Hundred SeventyFive Only	Nos.	1175			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
218	6.00	ITEM NO.218 Supplying & erecting LED type indicating pilot lamp with LED colours Red / Yellow / Green, 230 / 250V on provided box / panel with necessary	362	0	Rupees Three Hundred SixtyTwo Only	Nos.	2172			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
219	1.00	ITEM NO.219 Supplying, erecting & marking of surge arrestor/ surge protection device at the main distribution board after the incoming breaker of type 1+2 tested for I _{max} 50 kA for three phase and neutral with compliance to IEC 61643-11 as per	17646	0	Rupees Seventeen Thousand Six Hundred FourtySix Only	Nos.	17646			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

220	1.00	ITEM NO.220 Supplying, erecting, testing & commissioning 25 kVAr, 440 V, 3 phase, 50 Hz., APFC panel with contactor logic with intelligent microprocessor relay, consisting of 1,2,2,5,5,5 or suitable steps of APP/MPP type capacitor units withdetuned (harmonic filter) reactors of suitable rating, APFC panel shall bcompliance to IEC 61439 and power	121626	0	Rupees One Lakh TwentyOne Thousand Six Hundred TwentySix Only	Nos.	121626			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	0.00	CABLES								
221	10.00	ITEM NO.221 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 25 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid inprovided trench/ pipe as per specification no. CB-LT/AL(use of FRLS-XLPE insulation instead of FR-XLPE	258	3	Rupees Two Hundred FiftyEight Paise Thirty Only	RM	2583			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
222	20.00	ITEM NO.222 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 35 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid inprovided trench/ pipe as per specification no. CB-LT/AL(use of FRLS-XLPE insulation instead of FR-XLPE	311	85	Rupees Three Hundred Eleven Paise EightyFive Only	RM	6237			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

223	50.00	ITEM NO.223 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 50 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL(use of FRLS-XLPE insulation instead of FR-XLPE	405	3	Rupees Four Hundred Five Paise Thirty Only	RM	20265			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
224	10.00	ITEM NO.224 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 3 core 2.5 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/	175	0	Rupees One Hundred SeventyFive Only	RM	1750			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
225	10.00	ITEM NO.225 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 4 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-	304	98	Rupees Three Hundred Four Paise NinetyEight Only	RM	3049.8			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
226	50.00	ITEM NO.226 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-	405	96	Rupees Four Hundred Five Paise NinetySix Only	RM	20298			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

227	10.00	ITEM NO.227 Supplying, erecting & terminating FRLS XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(FRLS-XLPE insulation instead of FR-XLPE insulated armoured cable)	617	1	Rupees Six Hundred Seventeen Paise Ten Only	RM	6171			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
228	35.00	ITEM NO.228 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU(FRLS-XLPE insulation instead of FR-XLPE insulated armoured cable)	884	34	Rupees Eight Hundred EightyFour Paise ThirtyFour Only	RM	30951.9			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
229	10.00	ITEM NO.229 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16 SWG GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware	676	0	Rupees Six Hundred SeventySix Only	Rmt	6760			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
230	20.00	ITEM NO.230 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16 SWG GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware'	590	0	Rupees Five Hundred Ninety Only	Rmt	11800			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

231	10.00	ITEM NO.231 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 200 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road	677	0	Rupees Six Hundred SeventySeven Only	Rmt	6770			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		EARTHING								
232	1.00	ITEM NO.232 Supplying, installing and testing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories of GI materials & recording the results as per specification no. EA-EP	1537	0	Rupees One Thousand Five Hundred ThirtySeven Only	Nos.	1537			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
233	1.00	ITEM NO.233 Supply, installing, and testing of maintenance free earthing comprising of electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required	12357	0	Rupees Twelve Thousand Three Hundred FiftySeven Only	Nos.	12357			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
234	1.00	ITEM NO.234 Supplying, installing and testing earthing with copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover with minimum 25 kg Carbon based environment friendly back fill ground enhancing compound complete with all accessories of copper materials &	15816	0	Rupees Fifteen Thousand Eight Hundred Sixteen Only	Nos.	15816			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

235	10.00	ITEM NO.235 Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required as per specification no EA-EP. (STRIP SIZE	236	0	Rupees Two Hundred ThirtySix Only	KG	2360			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
236	2.00	ITEM NO.236 Supplying and erecting GI earth conductor of required sizes used for earthing or any other purposes on wall with necessary GI clamps fixed on wall/cable/ conduit with screws	168	0	Rupees One Hundred SixtyEight Only	KG	336			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
237	1.00	ITEM NO.237 Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge (C class) 40 mm dia 1.2mtr copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball of size 100mm as air terminals duly threaded in copper pipe erected on provided	6411	0	Rupees Six Thousand Four Hundred Eleven Only	Each	6411			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		FIRE ALARM ACCESSORIES (FF-FAAS)								
238	10.00	ITEM NO.238 Supplying, installing, testing and commissioning remote response indicators suitable to operate on 5 - 28 V dc supply having FR Polymer ABS Housing complete as per specification	210	0	Rupees Two Hundred Ten Only	Each	2100			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
239	250.00	ITEM NO.239 Supplying, installing, testing and commissioning FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling complete as per specification no. CB-	112	0	Rupees One Hundred Twelve Only	m	28000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

240	1.00	ITEM NO.240 Supplying, installing, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 1 loop capacity and capable of supporting not less than 250 devices and detectors per loop, with on-board LCD alphanumeric backlit display suitable for minimum 80 characters, operating at 230 V 50 Hz - AC with inbuilt Battery Backup of a minimum 24 hours in normal condition and 30 minutes in alarm condition, The panel shall have suitable provision for network connectivity & compatible for third party integration(Open Protocol to communicate) via a MODBUS/BACNET interface etc. conforming to IS 15908:2021, IS 2189: 2008, NFPA-72, EN	157245	0	Rupees One Lakh FiftySeven Thousand Two Hundred FourtyFive Only	Each	157245			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
241	15.00	ITEM NO.241 Supplying, installing, testing and commissioning of Addressable Optical Photo Smoke Detector. The detector shall have multi co-operative sensing technology for faster response & avoid false alarms. The detector shall have single/twin bicolour LED for 360 deg viewing. The detector is conforming to IS 2189: 2008, 11360_1985_Reff2020_EN 54 /VdS / UL	2380	0	Rupees Two Thousand Three Hundred Eighty Only	NOS	35700			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

242	2.00	ITEM NO.242 Supplying, installing, testing and commissioning of intelligent addressable thermal/heat detector with rate of rise cum fixed temperature thermistor complete with 0°C to 58°C temperature range, with base as required, single/twin LED's with 360 degree view, in-built locking mechanism to check the removal and pilferage of the detector, Detector Shall conforming to IS : 2175 - 1988mreaffirmed 2000, IS 15908:2021 /	2714	0	Rupees Two Thousand Seven Hundred Fourteen Only	NOS	5428			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
243	5.00	ITEM NO.243 Supplying, installing, testing and commissioning of addressable fire control/relay module for AHU, Access Control, Lifts, Staircase Pressurization, Fire Suppression & other Third Party Outputs etc., Module shall conforming to IS 5051 Part 2 (Sec 1 to 3) : 1982 reed relays / EN 54/VdS / UL & FM approved with 3 years equipment replacement	3779	0	Rupees Three Thousand Seven Hundred SeventyNine Only	NOS	18895			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
244	3.00	ITEM NO.244 Supplying, installing, testing and commissioning of addressable fire monitor module for flow switches, Panic Bars & other Third Party Inputs. The monitor module shall monitor potential free contacts. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device complete as required. Module shall conforming to IS 5051 Part 2 (Sec 1 to 3) : 1982 Reed	3730	0	Rupees Three Thousand Seven Hundred Thirty Only	NOS	11190			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

245	5.00	ITEM NO.245 Supplying, installing, testing and commissioning of addressable fire isolator module for isolating short / dewired / loose circuits with automatic resetting arrangement. Isolator Base can also be proposed, however in that case needs to be considered with each detector & module. The device shall have an LED which shall blink in normal state & get steady on activation to monitor the health status of the device. module complete as required. Module	3055	0	Rupees Three Thousand FiftyFive Only	NOS	15275			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
246	4.00	ITEM NO.246 Supplying, installing, testing and commissioning of addressable manual call points (break glass type/pull station type), made of addressable break glass plastic square in shape surface/flush mounted with "Break Glass" message embedded on the glass, complete erected with mounting base and required accessories, Module shall conform to EN 54/VdS / UL & FM	3579	0	Rupees Three Thousand Five Hundred SeventyNine Only	NOS	14316			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
247	4.00	ITEM NO.247 Supplying, installing, testing and commissioning of Addressable Sounder cum Strobe rated at minimum 75 dB @ 3m for Audible annunciation and minimum 75cd flashing at 1 Hz for visual indication. Module shall conforming to IS 2189: 2008, IS 15908:2021 / EN 54/VdS / UL & FM approved with 3 years	7837	0	Rupees Seven Thousand Eight Hundred ThirtySeven Only	NOS	31348			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		CCTV								

248	1.00	ITEM NO.248 Supplying, erecting & terminating 10 m HDMI cord low voltage grade minimum 4k compliant to be laid in provided conduits with male/female 19pin HDMI connectors complete.	4641	0	Rupees Four Thousand Six Hundred FortyOne Only	NOS	4641			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
249	300.00	ITEM NO.249 Supplying and installing FR PVC sheathed HDPE insulated copper cat-6 cable suitable for networking compliant with ANSI/TIA-568.2-D standards in provided conduit/casing-n-capping as per specification no. WG-ELVC/NC	57	0	Rupees FiftySeven Only	RM	17100			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
250	5.00	ITEM NO.250 Supplying and erecting 12 fibers LSZH armoured multimode optical fiber cable with , core dia 50/125 µm (OM3), suitable upto 10 GBPS, compliant to IEC 60793/IEC 60794 standards, on wall/ceiling or laid in provided pipe/trench as per specification no. WG-	302	0	Rupees Three Hundred Two Only	RM	1510			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
251	1.00	ITEM NO.251 Supplying and fixing 1 m 24 AWG multi stranded UTP patch cord with RJ-45 factory crimped connector of Cat 6 type, compliant ANSI/TIA-568.2-D standards in position as per specification no. WG-	243	0	Rupees Two Hundred FortyThree Only	NOS	243			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
252	1.00	ITEM NO.252 Supplying, fixing, and configuring 48 ports managed gigabit switch 10/100/1000 Mbps + 4SFP+ ports & 2X10G RJ-45 ports compliant with IEEE 802.3 af/at standards & supports OSPF/policy based routing/stacking erected in provided rack complete	73461	0	Rupees SeventyThree Thousand Four Hundred SixtyOne Only	NOS	73461			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

253	1.00	ITEM NO.253 Supplying and fixing Cat 6, 24 port patch panel with keystone jacks compliant with ANSI/TIA/EIA 568.C.2 & ISO/IEC 11810 complete as per specification no.	11017	0	Rupees Eleven Thousand Seventeen Only	NOS	11017			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
254	1.00	ITEM NO.254 Supplying and fixing 24 ports light guide unloaded interconnect unit, rack mounted type, with adapter panel for termination of optical fiber cables in provided U rack complete as per	5691	0	Rupees Five Thousand Six Hundred NinetyOne Only	NOS	5691			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
255	1.00	ITEM NO.255 Supplying and fixing SC/SC type multimode pigtails (OM3) for LIU to terminate OFC in LIU as per specification no. WG-NAS/LIU2	815	0	Rupees Eight Hundred Fifteen Only	NOS	815			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
256	1.00	ITEM NO.256 Supplying and fixing power distribution unit for networking rack comprises of 6/16A (6 Nos. sockets), 16A modular MCB, appropriate rating, enclosed in black powder coated metal with	5270	0	Rupees Five Thousand Two Hundred Seventy Only	NOS	5270			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
257	1.00	ITEM NO.257 Supplying and fixing 9U wall mount rack (Dimension-DxWxH – 500x550x480 mm) as per specification no. WG-NAS/RAK CSR 19-5-19	9615	0	Rupees Nine Thousand Six Hundred Fifteen Only	NOS	9615			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
258	1.00	ITEM NO.258 Supplying and fixing 15U wall mount rack (Dimension-DxWxH – 500x550x747 mm) as per specification no. WG-NAS/RAK	12853	0	Rupees Twelve Thousand Eight Hundred FiftyThree Only	NOS	12853			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

259	1.00	ITEM NO.259 Supplying & erecting of High definition 2 Megapixel IP IR Bullet Camera with features as mentioned Image Sensor : minimum 1/2.8" Progressive Scan CMOS, Video Resolution : minimum 1920 x 1080 Video Compression : H.264, H.265 or higher, at least Three individually configurable stream, Frame rate : minimum 25 fps at all resolutions, WDR : minimum 120 dB Wide Dynamic	7917	0	Rupees Seven Thousand Nine Hundred Seventeen Only	NOS	7917			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		Field of View : 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129° 4 mm, horizontal FOV 86°, vertical FOV 47°, diagonal FOV 102° 6 mm, horizontal FOV 55°, vertical FOV 29°, diagonal FOV 65° Lux sensitivity - minimum 0.2 Lux at color, minimum 0.05 Lux at Black & White, 0.0 Lux (IR) Night Vision Distance minimum IR - 30m. Camera minimum Adjustment Angles - Pan : 350°, Tilt : 72°, Rotate : 350°. Power Supply : Support 12VDC & PoE, IP67, IK10 - Vandal Resistant. Built in micro SD/SDHC/SDXC card slot of minimum 128 GB, Built in microphone. minimum Input/Output - Audio in × 1, Audio Out × 1, Alarm in × 1, Alarm Out × 1. Image Settings : Rotate mode, saturation, brightness, contrast,								

		Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security- User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP, SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour, SNMP and Secure shell (SSH) supported protocol. RoHS, WEEE, ISO-14001 and REACH								
260	12.00	ITEM NO.260 Supplying & erecting of High definition 2 Megapixel IP IR Dome Camera with following features as mentioned Image Sensor : minimum 1/2.8" Progressive Scan CMOS, Video Resolution : minimum 1920 x 1080 Video Compression : H.264, H.265 or higher, at least Three individually configurable stream, Frame rate : minimum 25 fps at all resolutions, WDR : minimum 120 dB Wide Dynamic Range,	7854		Rupees Seven Thousand Eight Hundred FiftyFour Only	NOS	94248			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

		Field of View : 2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129° 4 mm, horizontal FOV 86°, vertical FOV 47°, diagonal FOV 102° 6 mm, horizontal FOV 55°, vertical FOV 29°, diagonal FOV 65° Lux sensitivity - minimum 0.2 Lux at color, minimum 0.05 Lux at Black & White, 0.0 Lux (IR) Night Vision Distance minimum IR - 30m. Camera minimum Adjustment Angles - Pan : 350°, Tilt : 72°, Rotate : 350°. Power Supply : Support 12VDC & PoE, IP67, IK10 - Vandal Resistant. Built in micro SD/SDHC/SDXC card slot of minimum 128 GB, Built in microphone. minimum Input/Output - Audio in × 1, Audio Out × 1, Alarm in × 1, Alarm Out × 1. Image Settings : Rotate mode, saturation, brightness, contrast,								
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		Events : Privacy Masking, Motion detection, Scene change detection, Face capture, Video tampering, audio exception detection, Region entrance detection, Region exiting detection. Operating temperature (-30 to 60° C) . Security - User account and password protection, HTTPS, IP filter, IEEE 802.1X, digest authentication, user access log, TLS1.2, AES - 256, SSH/Telnet closed, FTP disabled. Protocol - DHCP, UDP, HTTP, HTTPS, NTP, DNS, RTP, RTSP, SMTP, SSL/TLS, TCP/IP, Secure Real-Time Transport Protocol (SRTP), Bonjour, SNMP and Secure shell (SSH) supported protocol. RoHS, WEEE, ISO-14001 and REACH								
261	1.00	ITEM NO.261 Supplying, installing, testing & commissioning of 16/20 Ch Network Video Recorder (NVR), suitable for 2MP Cameras, only, with HDMI1/VGA1 outputs, provided Atleast one HDMI output of 4K resolution, atleast one VGA output with output up to 1920x1080, Support H.265 or higher, H.264, MJPEG, Supports Redundant Dual Power,	18298	0	Rupees Eighteen Thousand Two Hundred NinetyEight Only	NOS	18298			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

262	2.00	ITEM NO.262 Supplying & erecting 8 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, maximum sustained transfer rate 210 MB/Sec to 213 MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 256, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS.	23722	0	Rupees TwentyThree Thousand Seven Hundred TwentyTwo Only	NOS	47444			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
263	1.00	ITEM NO.263 Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following features Brightness: minimum 250 Cd/m2 Contrast Ratio: minimum 1000:1 Viewing angle:178/178 deg. Response time: maximum 8 ms Inputs: HDMI, VGA, BNC, USB, Audio In, Built-in speakers maximum 2 W, Suitable to operate on 100-240 V 50 Hz AC supply and 24/7 Duty Cycle duly erected on wall or table top with standard accessories like wall mount stand and wiring connections etc.	24069	0	Rupees TwentyFour Thousand SixtyNine Only	NOS	24069			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		PUBLIC ADDRESS SYSTEM								
264	150.00	ITEM NO.264 Supplying & erecting ISI mark Rigid Steel conduit 16 SWG 20 mm dia. with necessary accessories in wall/floor with chiselling	214	0	Rupees Two Hundred Fourteen Only	RM	32100			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

265	1.00	ITEM NO.265 Supplying, erecting, testing & commissioning Mixer Amplifier 120W RMS Power with Built-in Digital Player, MP3 Player with USB/ SD/ MMC Card Reader, Bluetooth with remote and having min 5 Mic & 2 Aux Input, bluetooth facility, frequency response 50-15,000Hz $\pm$ 3dB, Signal to noise ratio between 60dB to 65dB min 5LED array for output level monitoring. It Shall have Line Output to connect aBooster Amplifier and Preamplifier Output. The Amplifier shall have SpeakerOutputs- 4 Ω , 8 Ω , (Low	14667	0	Rupees Fourteen Thousand Six Hundred SixtySeven Only	NOS	14667			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
266	12.00	ITEM NO.266 Supplying,installing, testing & commissioning 2-Way flush mount Ceiling Speakers with input power 20W RMS power, with power taps on 20/10/5W, 100V & 70V line, frequency response 90-18000Hz, stylish metal mesh grill and plastic frame, operates on 100V line for excellent reproduction of both speech and music, wide frequency	2334	0	Rupees Two Thousand Three Hundred ThirtyFour Only	NOS	28008			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
267	150.00	ITEM NO.267 Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, transparent PVC insulated 2C x 1.5 sqmm speaker wire in provided trunking/conduit etc.complete	57	0	Rupees FiftySeven Only	RM	8550			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

268	1.00	ITEM NO.268 Supplying, installing, testing and commissioning 15W PA Column Speakers with 15W RMS power in aluminium extruded cabinet, Moulded Plastic Covers & Metal mesh grill, frequency response 150-15,000Hz, operates on 100V line with power taps of 15/10/5/2.5W in black or white color, With Mounting clamps &	2824	0	Rupees Two Thousand Eight Hundred TwentyFour Only	NOS	2824			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		MISCELLANEOUS								
269	2.00	ITEM NO.269 Providing pair of duly tested rubber hand gloves as per IS :47705 suitable for working upto 22 kV supply complete.	693	0	Rupees Six Hundred NinetyThree Only	Each	1386			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
270	2.00	ITEM NO.270 Supplying and fixing PVC synthetic elastomer electrically insulating mat with class A insulation conforming to IS: 15652- 2006 having 2 mm thickness upto 3.3 kV	2972	0	Rupees Two Thousand Nine Hundred SeventyTwo Only	Sq. m.	5944			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
271	6.00	ITEM NO. 271 Supplying and erecting exhaust fan heavy duty 230 V A.C. 50 cycles 450 mm. 1400 RPM complete erected in position as per specification no. FG-FN/EXF CSR 2-9-16	4932	0	Rupees Four Thousand Nine Hundred ThirtyTwo Only	Each	29592			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
272	1.00	ITEM NO.272 Supplying and fixing of self expanding, ready to use polyurethane(PU) foam sealant of minimum 750ml bottle, suitable to seal the openings of all kinds of cables, pipes and cable support system in steel, aluminium and plastic profiles (except hollow core conductors). Sealant shall have minimum 2 hour fire	1495	0	Rupees One Thousand Four Hundred NinetyFive Only	Each	1495			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

272	1.00	ITEM NO.272A Providing temporary digital projector having Full HD 1080p resolution with White and Colour Brightness at range of 3000-4000lm,HDMI port, USB port, AV port, computer port with spring loaded white screen connected with necessary copper mains, required switchgears and maintaining the same during the	5410	0	Rupees Five Thousand Four Hundred Ten Only	Nos	5410			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		HVAC								
		AC UNITS - ODU & IDU								
273	1.00	ITEM NO.273 Supplying, erecting, testing and commissioning of 16HP, VRF/VRV air conditioning system outdoor unit (ODU) complies type-IV OEM standards working on HFC refrigerant R410A or other required/suitable green equivalent refrigerant, for minimum cooling capacity as delivering 100%capacity at 47° C, non stop cooling even at 56° C and coefficient of performance(COP) 3.00 to 4.00, modular type vertical hot air discharge suitable for longer piping range upto 1000m operation in cooling mode with inverter/digital VRF/VRV technology microprocessor based control compressor starter/control panel with scroll Compressor, air cooled copper condenser coil of suitable shape for increasing maximum heat transfer area, rain protection cover, built in oil	455315	0	Rupees Four Lakh FiftyFive Thousand Three Hundred Fifteen Only	Nos.	455315			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		CASSETTE UNIT								

274	5.00	ITEM NO.274 Supply, installation, testing and commissioning of VRF/VRV based ceiling suspended 4 Way cassette room/indoor unit (IDU-compact / standard size) of nominal cooling capacity 3.0TR (1100 cfm) to 3.2TR (1165 cfm) having EER as per BEE standards and specifications, suitable as per site requirement with swing louvers and adjustable blades from sides. IDU with drainage arrangements, fan, refrigerant liquid and refrigerant piping, cordless remote control, and fresh air port etc. IDU shall have anticorrosive coating suitable for costal area in all respects suitable to operate on 1-phase, 230V, 50Hz, AC supply complete. The unit	39451	0	Rupees ThirtyNine Thousand Four Hundred FiftyOne Only	Nos.	197255			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		REFRIGERANT PIPING								
275	10.00	ITEM NO.275 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 41.3mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	2662	0	Rupees Two Thousand Six Hundred SixtyTwo Only	m	26620			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

276	20.00	ITEM NO.276 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 34.9mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	2487		Rupees Two Thousand Four Hundred EightySeven Only	m	49740			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
277	10.00	ITEM NO.277 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 28.6mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	2435	0	Rupees Two Thousand Four Hundred ThirtyFive Only	m	24350			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

278	10.00	ITEM NO.278 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 22.2mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF piping for protection against mechanical	1634	0	Rupees One Thousand Six Hundred ThirtyFour Only	m	16340			0
279	50.00	ITEM NO.279 Supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 15.9 mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	1119	0	Rupees One Thousand One Hundred Nineteen Only	m	55950			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

280	10.00	ITEM NO.280 Supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 12.7mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	831	0	Rupees Eight Hundred ThirtyOne Only	m	8310			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
281	50.00	ITEM NO.281 Supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 9.5mm dia (OD) for liquid line/suction line supply and return piping of suitable gauge (hard copper pipe for liquid main line and soft copper pipe for refrigerant) along with necessary supports, hangers, clamps, vibration isolators and fittings such as bends, tees, valves, gauges, strainers with insulation of 19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF	700	0	Rupees Seven Hundred Only	m	35000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
282	4.00	ITEM NO.282 Supplying and installation of high pressure grade required size copper connection Y or T- Joints/refnut complete erected on wall/ceiling with supports/raceways, Nitrile rubber insulation, painting etc. with brazing and testing for leakages confirming the	6144	0	Rupees Six Thousand One Hundred FortyFour Only	Nos.	24576			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		DRAIN PIPING								

283	30.00	ITEM NO.283 Providing and fixing on walls/ ceiling/ floor 32mm dia.CPVC pipe with necessary fittings,remaking good the demolished portion etc. complete. Including removing existing pipeline if necessary and conveying and stacking	452	55	Rupees Four Hundred FiftyTwo Paise FiftyFive Only	RMT.	13576.5			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
284	100.00	ITEM NO.284 Providing and fixing on walls/ ceiling/ floor 25mm dia.CPVC pipe with necessary fittings,remaking good the demolished portion etc. complete.Including removing existing pipeline if necessary and conveying and	393	75	Rupees Three Hundred NinetyThree Paise SeventyFive Only	RMT.	39375			BD.V 5 page 551 As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	0.00	AIR DISTRIBUTION								
285	100.00	ITEM NO.285 Supplying, erecting, testing & commissioning GI sheet 0.6 mm (24 SWG) having zinc coating of 275 microns with galvanization process compliance to IS 2629:1985 to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat	1482	0	Rupees One Thousand Four Hundred EightyTwo Only	SQM	148200			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
286	12.00	ITEM NO.286 Supply, fabrication, installation and testing of flexible canvas connections constructed between ductable unit/dampers/ducting of suitable size with fire resist flexible double canvas	2952	0	Rupees Two Thousand Nine Hundred FiftyTwo Only	NOS	35424			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
287	300.00	ITEM NO.287 Providing adhesive thermal insulation for supply return air duct with 19mm nitrile rubber insulation having R-value as per the prevailing provisions in ECBC 2007. (FA Duct thermal insulation &	1048	0	Rupees One Thousand FortyEight Only	SQM	314400			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

288	18.00	ITEM NO.288 Supplying and erecting aluminium powder coated linear grill of suitable size for width length without collar dampers having matching colour with the existing false ceiling and suitable for deflection	1364	0	Rupees One Thousand Three Hundred SixtyFour Only	NOS	24552			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	6.00	150 x 150 mm (300 cfm exhasut air)								
	6.00	300 x 150 mm (1000 cfm exhuast air)								
	6.00	300 x 150 mm (1000 cfm fresh air)								
289	5.00	ITEM NO.289 Supply, installation, testing and commissioning of volume control box with collar for control damper of required sizes in GI construction with operating mechanism, mounting	6265	0	Rupees Six Thousand Two Hundred SixtyFive Only	NOS	31325			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
290	100.00	ITEM NO.290 Supplying and erecting iron work, sheet metal work consisting of MS sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and	196	0	Rupees One Hundred NinetySix Only	Kg	19600			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
291	1.00	ITEM NO.291 Supplying, erecting, testing and commissioning centralised programmable remote control panel (HMI) touch manager controls minimum 16 system of 64 ODU's can be controlled and up to 992 IDU's can be individually mounted and controlled indoor units having colour min 200mm size LCD touch panel, yearly schedule, power proportional distribution function,	48544	0	Rupees FortyEight Thousand Five Hundred FourtyFour Only	NOS.	48544			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

292	3.00	ITEM NO.292 Supplying, erecting, testing & commissioning fresh air intake system, ductable circular inline fresh air fan inlet unit having 300cfm capacity with maintaining the static pressure minimum 20mm suitable to operate on	5268	0	Rupees Five Thousand Two Hundred SixtyEight Only	NOS.	15804			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
293	4.00	ITEM NO.293 Supplying, erecting, testing & commissioning fresh air intake system, ductable circular inline fresh air fan inlet unit having 1000cfm capacity with maintaining the static pressure minimum 20mm suitable to operate on 1ph, 230 V, 50Hz, A.C. supply complete.	15884	0	Rupees Fifteen Thousand Eight Hundred EightyFour Only	NOS.	63536			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
294	3.00	ITEM NO.294 Supplying and erecting exhaust fan heavy duty 230 V A.C. 50 cycles 450 mm. 900 RPM complete erected in position as per specification no. FG-FN/EXF. (100	5352	0	Rupees Five Thousand Three Hundred FiftyTwo Only	NOS.	16056			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
295	1.00	ITEM NO.295 Supply, installation, testing and commissioning air curtain of 3feet width having air throw velocity of 12 to 14m/sec, low noise level up to 38 to 46dBA suitable for door height upto 9feet, working on 1 phase, 230V, 50Hz, A.C.	18726	0	Rupees Eighteen Thousand Seven Hundred TwentySix Only	NOS.	18726			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
296	1.00	ITEM NO.296 Supply, installation, testing and commissioning air curtain of 6feet width having air throw velocity of 21 m/sec, low noise level up to 38 to 46dBA suitable for door height upto 9feet,	22785	0	Rupees TwentyTwo Thousand Seven Hundred EightyFive Only	NOS.	22785			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		Electrical Works								

297	250.00	ITEM NO.297 Supplying and erecting PVC insulated PVC round sheathed FR 1 sq.mm (32 no. x 0.20mm dia.) 3 core flexible multi stranded copper industrial cable for voltage grade up to 1.1 KV (Control	50	0	Rupees Fifty Only	RMT.	12500			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
298	10.00	ITEM NO.298 Supplying and erecting HMS PVC conduit 20mm dia.with PVC accessories on wall / ceiling as per specification no. WG-MA/CON.	84	0	Rupees EightyFour Only	RMT.	840			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
299	10.00	ITEM NO.299 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 4 core 6 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/	398	0	Rupees Three Hundred NinetyEight Only	RMT.	3980			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
300	60.00	ITEM NO.300 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 4 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/	605	0	Rupees Six Hundred Five Only	RMT.	36300			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
301	10.00	ITEM NO.301 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper provided trench/ pipe as per specification no. CB-	867	0	Rupees Eight Hundred SixtySeven Only	RMT.	8670			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

302	160.00	ITEM NO.302 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire cable 1100 V, 3 core 2.5 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per	175	0	Rupees One Hundred SeventyFive Only	RMT.	28000			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
303	10.00	ITEM NO.303 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16SWG GI sheet of 300mm width & 75mm height complete with necessary coupler plates &	846	0	Rupees Eight Hundred FourtySix Only	RMT.	8460			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
304	50.00	ITEM NO.304 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16SWG GI sheet of 150mm width & 75mm height complete with necessary coupler plates &	590	0	Rupees Five Hundred Ninety Only	RMT.	29500			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
305	9.00	ITEM NO.305 Supplying 6A 3 pin plug top bakelite type of 230V A.C. supply. CSR 1-5-14	53	0	Rupees FiftyThree Only	NOS	477			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
306	6.00	ITEM NO.306 Supplying 16A 3 pin plug top bakelite type of 230V A.C. supply. CSR 1-5-15	75	0	Rupees SeventyFive Only	NOS	450			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
307	1.00	ITEM NO.307 Supplying and erecting SS enclosure of 1.6mm thick with detachable gland plate suitable for upto 100A MCCB. CSR 5-11-17	988	0	Rupees Nine Hundred EightyEight Only	NOS.	988			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

308	1.00	ITEM NO.308 Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required as	236	0	Rupees Two Hundred ThirtySix Only	Kg	236			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
309	1.00	ITEM NO.309 Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 12 ways/phase (36 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection provided on iron/GI frame (horizontal busbar type) as per specification	4118	0	Rupees Four Thousand One Hundred Eighteen Only	NOS.	4118			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
310	1.00	ITEM NO.310 Supplying, fixing and commissioning 4 pole RCBO 32/40A, with overcurrent, rated short-circuit breaking capacity (10 kA) and earth leakage protection, with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication	4212	0	Rupees Four Thousand Two Hundred Twelve Only	NOS	4212			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		FIRE								
		FIRE FIGHTING PIPE								
311		ITEM NO.311 Supplying and erecting G.I. pipe 'C' class ERW with necessary fittings duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003)								
	5.00	b)150mm dia CSR 13-6-9	2463	0	Rupees Two Thousand Four Hundred SixtyThree Only	Rmt.	12315			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

	20.00	c)100mm dia CSR 13-6-8	1640	0	Rupees One Thousand Six Hundred Fourty Only	Rmt.	32800			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	35.00	d)80mm dia CSR 13-6-7	1164	0	Rupees One Thousand One Hundred SixtyFour Only	Rmt.	40740			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	10.00	b)65mm dia CSR 13-6-6	916	0	Rupees Nine Hundred Sixteen Only	Rmt.	9160			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	10.00	c)50mm dia CSR 13-6-5	719	0	Rupees Seven Hundred Nineteen Only	Rmt.	7190			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	10.00	d)40mm dia CSR 13-6-4	473	0	Rupees Four Hundred SeventyThree Only	Rmt.	4730			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	15.00	c)32mm dia CSR 13-6-3	426	0	Rupees Four Hundred TwentySix Only	Rmt.	6390			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	120.00	d)25mm dia CSR 13-6-2	363	0	Rupees Three Hundred SixtyThree Only	Rmt.	43560			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		FIRE HYDRANT SYSTEM								

312	1.00	ITEM NO.312 Supplying and erecting gun metal single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV CSR 13-7-35	8030	0	Rupees Eight Thousand Thirty Only	NOS.	8030			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
313	1.00	ITEM NO.313 Supplying and installing wall mounting swinging hosereel drum fitted with 19 mm dia. 30m long high pressure polypropylene (Polyhose) along with necessary accessories complete as per	7023	0	Rupees Seven Thousand TwentyThree Only	NOS.	7023			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
314	2.00	ITEM NO.314 Supplying and erecting 63 mm dia, reinforced rubber lined (R.R.L.) hose pipe, 15m in length, fitted with necessary accessories complete as per	5491	0	Rupees Five Thousand Four Hundred NinetyOne Only	NOS.	10982			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
315	1.00	ITEM NO.315 Supplying and erecting gun metal branch pipe of 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specificationno.FF FFA/NZ	2023	0	Rupees Two Thousand TwentyThree Only	NOS.	2023			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
316	1.00	ITEM NO.316 Supplying and erecting brass orifice plate having 6 mm. thickness, 160 mm outer dia with required diameter of inner hole at every double outlet hydrant valve as per specification no. FF-	1075	0	Rupees One Thousand SeventyFive Only	NOS.	1075			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

317	1.00	ITEM NO.317 Supplying and erecting M.S./CRCA cabinet for housing Floor Hydrant valve, hose pipe, hose reel and branch pipe (size 1000 x 736 x 736 mm.) made from 16 SWG sheet and angle iron 25 x 25 x 4 mm. having front doors with viewing glass (8"x6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted with	16660	0	Rupees Sixteen Thousand Six Hundred Sixty Only	NOS.	16660			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
318	1.00	ITEM NO.318 Supplying and erecting 20/25 mm dia gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV	884	0	Rupees Eight Hundred EightyFour Only	NOS.	884			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
		SPRINKLER SYSTEM								
319	0.00	ITEM NO.319 Supplying and erecting Ball Valve complete with PN16 pressure rating, as per specification no. FF-VL/BV								
	1.00	a)50 mm dia CSR 13-7-41	3388	0	Rupees Three Thousand Three Hundred EightyEight Only	NOS.	3388			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	1.00	b)32 mm dia CSR 13-7-40	2433	0	Rupees Two Thousand Four Hundred ThirtyThree Only	NOS.	2433			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	1.00	C)25 mm dia CSR 13-7-39	1475	0	Rupees One Thousand Four Hundred SeventyFive Only	NOS.	1475			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

320	0.00	ITEM NO.320 Supplying and erecting cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per								
	1.00	150 mm dia CSR 13-7-21	6416	0	Rupees Six Thousand Four Hundred Sixteen Only	NOS.	6416			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	1.00	100 mm dia CSR 13-7-20	4317	0	Rupees Four Thousand Three Hundred Seventeen Only	NOS.	4317			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
	1.00	80 mm dia CSR 13-7-19	3222	0	Rupees Three Thousand Two Hundred TwentyTwo Only	NOS.	3222			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
321	57.00	ITEM NO.321 Supplying, erecting, testing and commissioning of Upright/ Pendant quartzoid bulb sprinkler, 15 mm (½") dia. NBCM Body chrome finished, 68° C fixed temperature rating with deflector disc of conventional construction complete as	448	0	Rupees Four Hundred FortyEight Only	NOS.	25536			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
322	57.00	ITEM NO.322 Supplying erecting, testing and commissioning of sprinkler flexible pipe of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2	666	0	Rupees Six Hundred SixtySix Only	NOS.	37962			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

323	1.00	ITEM NO.323 Supplying and erecting, testing and commissioning of 100mm dia. installation control valve (Alarm Valve) of cast iron body, brass / bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve	33560	0	Rupees ThirtyThree Thousand Five Hundred Sixty Only	NOS.	33560			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
324	1.00	ITEM NO.324 Supplying and erecting 12/15mm dia pressure switch with provided isolation valve, G.I. nipple, elbow, etc complete as per specification no. FF-FFA/PS	1853	0	Rupees One Thousand Eight Hundred FiftyThree Only	NOS.	1853			As per Instruction given by Executive Engineer/ Site Engineer during execution of work
325	4.00	ITEM NO.325 Supplying & erecting Carbon Dioxide (CO2) fire extinguisher of 4.5 kg. capacity cartridge type conform to IS 2878 /15683 complete erected with necessary clamp made from 50 x 6 mm.	9943	0	Rupees Nine Thousand Nine Hundred FortyThree Only	NOS.	39772			As per Instruction given by Executive Engineer/ Site Engineer during execution of work

Contractor /Agency

No.of Correction :

**Executive Engineer
Mira-Bhaindar Municipal Corporation**