मिरा भाईंदर महानगरपालिका

स्व. इंदिरा गांधी भवन, मुख्य कार्यालय, छत्रपती शिवाजी महाराज मार्ग,
भाईंदर (प.), ता.ठाणे-४०११०१ दुरध्वनी क्रं.२८१९२८२८
// बांधकाम/ विद्युत विभाग //

जा.क्र. मनपा/साबां/कार्या/ ५६ **/2025-26** **दिनांक :-** २९ / ०६ **/2025**

// कार्यादेश //

प्रति,
मे. गजानन कंन्स्ट्रक्शन
सी-110, पुष्पा निकेतन,
मॅक्सेस मॉल जवळ,
टेंबा रोड, भाईंदर (प.)
ता.जि.ठाणे

विषय :- निविदा मंजूरीबाबत. **(टेंडर आयडी 1129160_1)**

संदर्भ :-
1) मा. आयुक्त यांची दि.27/09/2024 प्रशासकिय मंजूरी. जा.क्र.नवि/टे-4/मि.भा.मनपा/प्र.मा.एस.आर-576/2024 दि.14/10/2024
2) दि.26/12/2024 ची निविदा.
3) मा. आयुक्त यांची दि.04/03/2025 ची मंजूरी.
4) प्रशासकीय ठराव दि.06/03/2025 ठराव क्र.451 नुसार निविदा मंजुरी.
5) जा.क्र.मनपा/साबां/7367/2024-25 दि.19/03/2025 चे पत्र.
6) सुरक्षा अनामत रक्कम रु.60,11,062/- बॅंक गॅरेंटी क्र.0018NDLG 00008726 दि.05/05/2025
7) मुद्रांक शुल्क रु.6,00,200/- चलन क्र. MH002082673202526P दि.02/06/2025 रोजीचा करारनामा.

दि.22/12/2024 रोजीच्या **दै. नवभारत, दै. बहुजनरत्न लोकनायक, दै. महाराष्ट्र समाट** वृत्तपत्रात व ई-टेंडरींग पद्धतीने प्रसिध्द झालेल्या जाहिर निविदा सुचनेनुसार **मिरा भाईंदर महानगरपालिका हद्दीतील स्व. प्रमोद महाजन कलादालनाचे उर्वरित काम करणे. (मुलभुत सोई सुविधांचा विकास) (अंदाजित खर्च रु.20,03,68,741/-)**

Item Description	Qty	Unit	Gajanan Construction	
			Final Rate	Final Amount
ITEM NO 01 Providing and Fixing toilet set for differently Abled persons consist of Floor Mounted white vitreous china water Closet including 6 litre capacity white vitreous china flushing Cistern with raised soft - push button, white vitreous china wash basin of size 46 x 36 cm and one no SS 304 hinged rail 76 cms & three no SS 304 of (Grab Bar) 60 cm sall including cutting and making good the walls and floors wherever required, seat cover, cistern & wash basin fittings, nuts, bolts and gasketetc complete as per the direction of Engineer-In-charge SSR NO 51.63 Spec. As directed by Engineer-In-Charge	2	NOS	74319	148638
ITEM NO 02 (Staircase wall tile) Providing and laying Vitrified MATT finish having decorative type of size 1000 millimeter x 1000 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc complete. Spec. As directed by Engineer-In-Charge SSR 33.61	468.216	SMT	2352.14	1101309.582
ITEM NO 03 Providing laying and fixing glass mosaic tiles in the wet areas like swiming pool, toilets etc of approved make, colour, pattern, size and thickness on the surface treated with waterproffing compound including backing coat of approved latex-modified thinset, jointing, filling the joints with non shrink neat cementetious coloured grout, curing, ponding, finishing etc. complete as per manufacturers specifications and as directed by Engineer-in-charge (Bisazza Mosaic tile) MCGM R3-CS-FL-17	491.39	SMT	2301	1130688.39

ITEM NO 04 Aluminium Fins - Providing and Fixing Horizontal fins with 3"x1" Aluminium Tubular Section Powder coated Horizontally with 1" facing and 3" Gap in to in in sections with 1"1" Aluminium Angle powder coated fixed at top and bottom for fixing, with Hardware , with labour inclusive Approved MR	124.35	SMT	4560	567036
ITEM NO 05 Aluminium Fins -Providing and Fixing Horizontal fins with 100 mm x 40 mmx 3 mm thick.(Triangle Concave Shape} Aluminum Angle sections powder coated of specification, distance between section will be 3 -4 inches & details as per drawing. Length and with all the accessories,hardwares, with labour all inclusive Approved MR	80	SMT	4900	392000
ITEM NO 06 Providing and fixing Counter table L Shape (6.05m x 0.60 m +2.05 X 0.60 m) - 0 .60 m width for main counter made of 18 mm thk Marine plywood including table top, drawers, shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete loacation- audio visual operation roomSpec As directed by Engineer-In-Charge (Face Area To be Measured) Approved MR	8.5	SMT	28000	238000
ITEM NO 07 Providing and fixing Concierge table (3.30 m x 0.75 m + 3.60 m x 0.75 m) - 0 .60 m width for main counter made of 18 mm thk marine plywood including table top, with drawers, shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete loacation-atrium Approved MR Spec As directed by Engineer-In-Charge	7.2	SMT	67800	488160
ITEM NO 08 Providing and fixing Cabin table (2.1 m x 0.90 m) made of 18 mm thk Marine plywood including table top, with four drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	1.0	NOS	60000	60000
ITEM NO 09 Providing and fixing Cabin table (1.5 m x .75m)made of 18 mm thk plywood including table top, Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	3.0	NOS	38000	114000
ITEM NO 10 Providing and fixing Librarian table (1.8m x .75m)made of 18 mm thk plywood including table top,Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Spec As directed by Engineer-In-Charge Approved MR Spec As directed by Engineer-In-Charge	1.0	NOS	40500	40500
ITEM NO 11 Providing and fixing Issue Counter table (3.05 m x 0.75m) - 0.60 m width for main counter made of 18 mm thk plywood including table top,Side credenza with two drawers, two shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete loacation- Library areaApproved MRSpec As directed by Engineer-In-Charge	2.3	SMT	36830	84709
ITEM NO 12 Providing and fixing Studio table (3.05 m x 0.90m)made of 18 mm thk plywood including table top, Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	4.6	SMT	23950	110170
ITEM NO 13 Providing & Supplying Rack for Magazines and New Arrivals (Size-1.2 m x 2.1 m)Location - Audio library Approved MR Spec As directed by Engineer-In-Charge	2.0	NOS	15500	31000
ITEM NO 14 Providing & Supplying Audio Console Rack - (Size-0.60 m x 1.80 m) Approved MR Spec As directed by Engineer-In-Charge	4.0	NOS	23500	94000
ITEM NO 15 Providing & Supplying Slotted Angle Rack with 6-Shelf Shelving Unit Multipurpose Rack (Black) (72 X 30 X 18 Inch)(22 Gauge Shelf,16 Gauge Angles Approved MR Spec As directed by Engineer-In-Charge	21.6	SMT	8500	183600
ITEM NO 16 Providing & Supplying Display Rack made with MR grade Plywood & partly glazed with 10 mm thk toughned glass, 18 mm thk plywood with all external surfaces finished with approved laminate of 1.0 mm thk & all internal surfaces finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	16.0	SMT	40500	648000
ITEM NO 17 Providing and fixing Storage made of 18 mm thk plywood with all external surfaces finished with approved laminate of 1.0 mm thk & all internal surfaces finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	86.2	SMT	18500	1594700
ITEM NO 18 Providing and fixing Free Standing Pedestal (Size -0.60 m x .060 m x .90 m) for Exhibition area Approved MR Spec As directed by Engineer-In-Charge	29.0	NOS	20500	594500

ITEM NO.19 Providing and supplying Reading table- Type 01 (size- .075 M x 1.05 M) - MS frame and made of 18 mm thk plywood including table top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	5.0	NOS	**25990**	**129950**
ITEM NO.20 Providing and supplying Reading table-Type 02 ((size- 1.50 M x 1.05 M) - MS frame and made of 18 mm thk plywood including table top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings.Approved MRSpec. As directed by Engineer-In-Charge.	10.0	NOS	**28500**	**285000**
ITEM NO.21 Providing and supplying Book rack straight with white laminate finish inside and exterior designer laminate finish and as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	49.632	SMT	**25500**	**1265616**
ITEM NO.22 Providing and fixing Podium with acrylic finish Approved MR Spec. As directed by Engineer-In-Charge.	1.08	SMT	**26830**	**28976.4**
ITEM NO.23 Providing and supplying Cafe table (Square shape) - with laminate finish (table size -out of 0.90 m x 0.90 m) All wooden surfaces finished with melamine polish with moulding finish location :- Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	8	NOS	**26500**	**212000**
ITEM NO.24 Providing and supplying standard Bench seating (size -out of 3.00m x 0.60 m) as shown in the drawings location :-Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	**33500**	**167500**
ITEM NO.25 Providing and supplying standard High bench seating (size - out of 11.30 m x 0.60 m) as shown in the drawings.location :-Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	6.582	SMT	**16800**	**110577.6**
ITEM NO.26 Providing and supplying Center table - type 01 Table Top with Toughened Glass & Metal Legs with natural wooden polish Approved MR Spec. As directed by Engineer-In-Charge.	6	NOS	**12800**	**76800**
ITEM NO.27 Providing and supplying Center table - (Square / Round shape) - with laminate finish (table size -out of 1.20 m x 1.20 m) All wooden surfaces finished with melamine polish with moulding finish. Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	**17500**	**87500**
ITEM NO. 28 Providing and supplying Corner table Top with Toughened Glass & Metal Legs with natural wooden polish Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	**13500**	**67500**
ITEM NO.29 Providing and fixing Metal body powder coated Cupboards (Size :- 0.90m X 0.50 m) with required Locking arrangements & adustable shelves. Make Godrej / Ruby Safe or equivalent. Approved MR Spec. As directed by Engineer-In-Charge.	3.78	SMT	**20500**	**77490**
ITEM NO.30 Providing and fixing Luggage Racks (Size :-1.2 mX .45m) made of 19mm thick ply shutters , finished with approved Veneer on all outer faces complete as per drawings and directions. Cost includes provision of approved hinges, door magnets, handles, etc. as per drawings and specifications Approved MR Spec. As directed by Engineer-In-Charge.	1.44	SMT	**16500**	**23760**
ITEM NO.31 Providing and fixing Dressing Tables (Size -0.60 m X .45m) with 2 sets of drawer & shutter below, made of 19mm thick ply shutters , finished with approved Veneer on all outer faces complete as per drawings and directions. Cost includes provision of approved hinges, door magnets, handles, etc. as per drawings and specifications. Approved MRSpec. As directed by Engineer-In-Charge.	2.52	SMT	**18500**	**46620**
ITEM NO.32 Providing and supplying Single bed (size- 1.95 m x 0.90 m) - made of 18 mm thk plywood including top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	4	NOS	**29500**	**118000**
ITEM NO.33 Providing and supplying Side table (size- 0.60 m x 0.45m) with two drawers all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. In Suite rooms Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	**14500**	**29000**
ITEM NO.34 Providing and fixing Entertainment table for Suite rooms (TV UNIT) Approved MR Spec. As directed by Engineer-In-Charge.	1.2	SMT	**16500**	**19800**
ITEM NO.35 Providing and fixing Full Height Wooden Partitions- Veneer finish made with MR grade Plywood & partly glazed with 10 mm thk toughned glass, nesesary support frames as directed. Finishing complete in all respects with melamine polish to all surafaces & beads, etc as shown in the drawings Approved MR Spec. As directed by Engineer-In-Charge.	97.52	SMT	**16500**	**1609080**
ITEM NO.36 Providing and fixing Screen Partition design for audio library Approved MR Spec. As directed by Engineer-In-Charge.	19.44	SMT	**21500**	**417960**
ITEM NO.37 Providing and fixing 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. 135/- per sq.ft. Approved MR Spec. As directed by Engineer-In-Charge.	104.275	SMT	**5600**	**583940**

ITEM NO 38 Providing and fixing Acrylic Board panelling on wall Approved MR Spec. As directed by Engineer-In-Charge	9.45	SMT	8260	78057
ITEM NO 39 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 level, etc as per drawing Approved MR Spec. As directed by Engineer-In-Charge	39.285	SMT	7800	306423
ITEM NO 40 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 level, etc as per drawing Approved MR Spec. As directed by Engineer-In-Charge	181.305	SMT	9800	1776789
ITEM NO 41 Providing and fixing Wall slat panelling on wall with 12mm thick commercial BWR plywood on ply support frame work with LED Finishing includes covering with wooden slat of approved on the outside of plywood, Teakwood beading at corners, skirting level and false ceiling level, etc as per drawing. Approved MRSpec. As directed by Engineer-In-Charge	39.12	SMT	8395	328412.4
ITEM NO 42 Providing & Fixing in position, Acoustical Panelling made from Wood - wool board 20 mm 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 & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR - 51.02 Spec. As directed by Engineer-In-Charge	548.228	SMT	3601.5	1974443.142
ITEM NO 43 Providing & Fixing in position, Acoustical Panelling made from Fabric wrapped Compressed polyester fibre non woven 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 chickenmesh on wall side, including cost of required Cut - Outs, decorative mouldings / finishing - items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR - 51.01 Spec. As directed by Engineer-In-Charge	259.475	SMT	4819.5	1250539.763
ITEM NO 44 Providing & Fixing in position Acoustical Doors along with 150 x 150 mm teakwood frame, doors made from 50 mm Teak wood frame 600 x 600 c to c filled with 1000 Gsm synthetic wool 50 mm thick and 3 mm Tec sound from both sides, 12 mm water proof ply & veneer from both sides, including 150 mm heavy duty SS hinges (Geze / Dormaoreq) 4 no each leaf, with Door - closer (Dorma / Gezeoreq) including cost of required Cut -Outs, decorative mouldings / finishing - items / melamine polish & Scaffolding as per Architectural & Acoustical Design & Instructions & Complete in all as pects including all materials labour,finishing etc complete SSR NO51.05 Spec. As directed by Engineer-In-Charge	34.56	SMT	24885	860025.6
ITEM NO 45 Providing & Arrangemnt of High Back, Synchronized Mechanism with Multiple Locking, Adjustable Armrest, Gaslift for Seat height adjustment, Standard 5-prong P/ Nylon Base with Leatherite Upholstery SSR NO51.40 Spec. As directed by Engineer-In-Charge	2	NOS	18239.55	36479.1
ITEM NO 46 Providing & Arrangemnt of Mid Back, Normal Syncro Mechanism, Fixed Armrest, Gaslift for Seat height adjustment, Standard 5-prong/Nylon Base with Leather Upholstery SSR NO51.42 Spec. As directed by Engineer-In-Charge	10	NOS	10041.15	100411.5
ITEM NO 47 Providing & Arrangemnt of Mid Back, ECOCTS Mechanism, Fixed Armrest, Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Fabric Upholstery SSR NO51.43 Spec. As directed by Engineer-In-Charge	10	NOS	6846	68460
ITEM NO 48 Providing and supplying Cafe Chairs Approved MR Spec. As directed by Engineer-In-Charge	28	NOS	5500	154000
ITEM NO 49 Providing and supplying Standard High Cafe Stools as shown in the drawings location - LibraryApproved MR Spec. As directed by Engineer-In-Charge	14	NOS	12380	173320
ITEM NO 50 Providing and supplying standard Reading chairs as shown in the drawings Approved MR Spec. As directed by Engineer-In-Charge	42	NOS	4500	189000
ITEM NO 51 Providing and supplying standard Audio/ Reading wooden chairs as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge	8	NOS	16500	132000
ITEM NO 52 Providing and supplying standard Audio Console Stools as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge.	6	NOS	9910	59460
ITEM NO 53 Providing and supplying standard Studio chairs as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge	32	NOS	6300	201600
ITEM NO 54 Providing & fixing in position, heavy duty fully upholstered Auditorium chairs 520 mm c to c tip-up type. Height of back should be less than 1030 mm with plastic protective cover on back and bottom having teak wood handles. Back to back distance is 1000mm. The auditorium chairs should be of following specifications 1. Powder Coated Heavy duty MS Stand. 2. Individually moulded , ergonomically designed seat and back cushions. 3 Moulded Polyurethane Foam cushion. PU foam density 48 – 52 Kilograms/cu mtr 4. Moulded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity. 5.Upholstered in Foam laminated stretch sandwich Fabric for clean finish and soft comfortable feel as per the colour & pattern selected by the client. 6 Seat and Back should have moulded synthetic protective cover. 7. Wooden or PU armrest 65mm x 20mm - 330mm long. 8 Mounted	85	NOS	6300	535500

using Anchor fasteners. As directed by Engineer-in-charge SSR 51.18/354				
ITEM NO 55 Providing and fixing Sofa-3 seater with upholstry (office) Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	**62500**	**125000**
ITEM NO 56 Providing and fixing Sofa-2 seater with upholstry . Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	**32500**	**65000**
ITEM NO 57 Providing and fixing Sofa-1 seater with upholstry Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	**18500**	**37000**
ITEM NO 58 Providing and fixing 20 mm thick Laminated sheet board pelmet box 150 to 200 mm wide to doors or window frames including 20 mm dia. Aluminium curtain rod with sockets and finishing with french polishing (without top) etc complete. Spec. As directed by Engineer-In-Charge. SSR NO37.15	29.16	SMT	**3331.65**	**97150.914**
ITEM NO 59 Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38 mm round Aluminium channel with Black out fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc. complete. (Sample to be final by Engineer In-charge prior execution of work) SSR NO 51.19Spec. As directed by Engineer-In-Charge.	584.7985	SMT	**2259.6**	**1321410.691**
ITEM NO 60 Providing & Fixing of Signage using 304 Stainless steel letters for the front & side fascia and 5mm thick acrylic molded letters, for back fascia moulded letters with height 24 inches, with necessary power supplies for connection, including profile LED back lighting Approved MR Spec. As directed by Engineer-In-Charge.	52	NOS	**2950**	**153400**
ITEM NO 61 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 etc complete SSR 51.13/354	337.2595	SMT	**1522.5**	**513477.5888**
ITEM NO 62 Providing & Fixing Rod (2meter length) & Accessories for Carpet on Steps including brass finish etc. as per architect's instructions Approved MR Spec. As directed by Engineer-In-Charge.	28	NOS	**1200**	**33600**
ITEM NO 63 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 concretes lab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from under side to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to straphangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. SSR - 38.51 Spec. As directed by Engineer-In-Charge.	1584.890 26	SMT	**1857.45**	**2943854.413**
ITEM NO 64 Providing and Fixing Soft Fibre Acoustical Suspended Ceiling System with Optra (Bevelled Tegular) Edge Tiles of size 15 mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95% , NRC 0.9 - 1.0 , Light Reflectance? 85%, Colour White, Fire Performance UK Class 0 / Class 1 (BS476 pt - 6 & 7) in module size of 600 x 600 x 15 mm, suitable for Green Building application, with Recycled content of 66 % G Wand 74 % RW. The tile shall be laid on precoated G I channel 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with aweb height of 32 mm and aload carrying capacity of 7 Kilograms / M2 with aminimum pull out strength of 100 Kilograms. The T Section shave a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete. SSR - 38.47 Spec. As directed by Engineer-In-Charge.	879.18	SMT	**3022.95**	**2657717.181**
ITEM NO 65 Providing and fixing Wooden batten ceiling with Veneer finish As per Spec. As directed by Engineer-In-Charge. Approved MR	509.63	SMT	**9500**	**4841485**
ITEM NO 66 Providing and fixing Designer Fabric ceiling with finish Approved MR Spec. As directed by Engineer-In-Charge.	398.88	SMT	**15400**	**6142752**
ITEM NO 67 (MS Fabrication work) 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 and over it two coats of oil painting of approved quality and shade etc. complete SSR NO23.01/129	21.70501 76	MT	**106936.2**	**2321052.103**
ITEM NO 67A 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 of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete. SSR 23.04 /173	36	MT	**125431.95**	**4515550.2**
ITEM NO 68 Providing & Fixing bird wired mesh/wired fabric (12.5mm x 24 SWG) in strips of 200 mm width or as required over junctions of concrete & brick / block masonry or any other specified location at all heights including minimum 200mm overlap at all joints / junction prior to plastering, drilling, nailing etc. complete as directed By Engineer In Charge MCGM R3-CS-PL-34 Spec. As directed by Engineer-In-Charge.	111.9	SMT	**263**	**29429.7**

ITEM NO 69 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 wall primer with brush by adding miner al turpentine oil by 8 to 10 % or water by 15 to 20 % allowing todry for 6 to 8 hours After applying acrylic wall putty with appropriate prpportion 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 Royale luxury emulsion 2 nd coat with brush with water content 40 to 45% or 65 to 70 % by roller (With prior approval of S.E.) SSR NO36.21 Spec. As directed by Engineer-In-Charge	7028.461 26	SMT	288.75	2029468.189
ITEM NO 70 Providing and applying Wallpaper premium Qulaity Approved MR Spec. As directed by Engineer-In-Charge	88.85	SMT	1650	146602.5
ITEM NO 71 Supply and installation of cubicles of width and depth as per Athena Lite-SS Series Cubicles -Std Sizes (W x D x H) - 900 mm x 1550 mm x 2105 mm. (Height is including 100 mm gap from bottom, Door Width - 600 mm specifications/site drawings) Cubicle height to be 2105 mm Made from solid grade compact high pressure laminate as per IS 2046 and EN - 438 manufactured under high specific pressure > 5 MP a and temperature > 120°C . All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges . Each door will be supported by 3 stainless steel made hinges af fixed to the pilasters. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are H shaped (Top) head frame structure made of extruded Aluminuumg rade 60 63 T5 -50 micronepoxy powder coated for surface protection. Size to be 125 x 70 x 5T. Corner joinery section. Size to be 40 x 16.5 x 1.8 T U -Channel Wall joinery section. Size to be 22 x 16 x 1.6 T. Door stopper section. Size to be 21 x 12.5 x 1.6 T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated etc complete SSR NO51.162Spec. As directed by Engineer-In-Charge.	119.844	SMT	11755.8	1405335.355
ITEM NO 72 Supplying and erecting led profile light 12 w conforming IP 65 of any colour with driver complete Spec. As directed by Engineer-In-Charge Approved MR	15	RMT	2580	38700
ITEM NO 73 Supplying and erecting LED square / circular Max. 7W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 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 L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-2	90	NOS	664	59760
ITEM NO 74 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 board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-7	40	NOS	2487	99480
ITEM NO 75Supplying 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, CCTupto 5000K, Beam Angle of 110 deg , THD<10%, p.f. >0.95, operating range of230-270V, Life class of 30,000 Hrs at L70B50 including driver with minimum 1year warranty as per specification No. FG-IDF/LED.CSR 2-1-10	250	NOS	1889	472250
ITEM NO 76 Supplying and erecting (OTSL 1251)Track LED fitting 10W/15w with high transitivity diffuser -Milky/clear PMMA lumen/W, CRI>80, CCT upto3000K/4000k/6000k, Hosing Die cast Aluminium, IP20, Approved MR	110	NOS	950	104500
ITEM NO 77 Supplying and erecting (OTSL 1252)Track LED fitting 24W/30w/50w with high transitivity diffuser -Milky/clear PMMA lumen/W, CRI>80, CCT upto3000K/4000k/6000k, Hosing Die cast Aluminium, IP20, Approved MR	120	NOS	1200	144000
ITEM NO 78 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, Approved MR	80	NOS	1299	103920
ITEM NO 79 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 Aluminium, IP40, Approved MR	80	NOS	1416	113280
ITEM NO 80 Supplying and erecting Magnetic Surface Track Channels (size 32mm x 50mm)with available material in Aluminium,Black color,Magnetic Design Approved MR	80	NOS	7999	639920
ITEM NO 81 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 Approved MR	90	NOS	2150	193500
ITEM NO 82 Supplying and erecting (OUL 354)Underwater light fitting 8w/12w/16w with diffuser - clear/frosted toughened glass , CCT upto3000K/4000k/6000k, Hosing gun metal/stainless steel, IP68, durable and vandal resistant Approved MR	40	NOS	12283	491320
ITEM NO 83 Providing and fixing Aluminium open cell(100mmx100mm) ceiling 0.45/0.50 mm Galvanized steel and 0.5/0.65mm Aluminium TCT .Various Gap 50mm to 100mm made of 0.5mm/0.6mm thick black coil coated galvanised steel /powder coated 20mm Wide,40mm deep, 55 microns thick powder coating on exposed surface , 25 microns polyster coil coated over primer on visible surface with primer coat on rear side. Suspension with 4mm dia Galvanized rod ,Height Adjustment Spring STeel big Clip,panel Coupler,GS wall angle. complete as per specification and drawing provided by the Engineer Incharge Approved MR	610	SMT	3050	1860500

ITEM NO. 84 Providing and fixing Hands Free Aluminum Foot Door Opener as per drawings and specification provided by the engineer in charge including all fitting complete with Coating complete as per specification and drawing provided by the Engineer InchargeApproved MR	15	NOS	**400**	**6000**
ITEM NO.85 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade approved face Laminate 1 mm thick on both faces with ghana teak wood frame of size (125mm x 75mm) with malemaine poshlish , Aluminium Louverd of size (0.6 M X 0.3 M) fixed at bottom for ventilation purpose all included necessary beads, mouldings lipping patti , iron hold fast, SS Hinges , fixer fastening with Cylinder Half lock with handle, SS handles on inside side (vertical - length 300 mm) and Aluminum Extruded Door Closer fittings etc completed As per detailed design and drawings and with all fittings etc completed) complete as per specification and drawing provided by the Engineer Incharge Approved MR	21.6	SMT	**8000**	**172800**
ITEM NO. 86 Supply and Installation of GI DOOR FOR DUCT (0.6 X 1.8MT) AND GLASS (0.3 X 1.00MT) with all the necessary hardware complete as per specification and drawing provided by the Engineer Incharge Approved MR	4	NOS	**7425**	**29700**
ITEM NO.87 Providing High Density plastic chair(Nilkamal) Smooth and Satin finish with armrest with steel legs size 585mmx550mmx775 mm weight Capacity 125kg ,complete with approved colour ETC(Novella 10) Approved MR	4	NOS	**2741**	**10964**
ITEM NO.88 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, chromium plated handles on both sides, and finishing with French Polish etc complete SSR 39.09 / 246	25.4	SMT	**3232.95**	**82116.93**
ITEM NO.89 Providing and fixing Speed Breakers of Size 350 W x 500 L x 50 H mm yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC MCGM R3-CS-RM-132	50	RMT	**2765**	**138250**
ITEM NO. 90 Providing and Laying hot applied thermoplastic road marking strip on Bituminous Surface of specified shade/ colour of 2.5 mm thick including 1.5 Refractive index reflectorizing glass beads @ 250gm/sqm .Thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35:2015. Initial Dry reflectivity RL shall be > 250 mcd/sqm/lux measured in the initial 7 days and sustained reflectivity RL of 100 mcd/sqm/ lux and Qd of 100 mcd/sqm/ lux measured at the end of 2 years by means of a Standard Reflectometer of Zehntner, Easylux, Delta make capable of measuring RL & QD both according to IRC 35:2015 clause 15.5. The finished surface to be level, uniform, and free from streaks and holes complete as per direction of Engineer-in-charge and in accordance with applicable specifications (Refer MORTH Clause 803 for technical Specification and Performance for IRC 35:2015). SSR 6.12a	100	SMT	**699.3**	**69930**
ITEM NO. 91 Providing and fixing ISI marked double swing flush door shutters conforming to IS :2202 (Part I) Non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 30 mm thick including ISI marked Stainless Steel L- hinges with necessary screws Fittings & Fixtures per leafSS kick plates on both sides of the door of 300mm height Heavy Duty satin finish butt SS Hinges (100mm x 75mm x 3mm in size) -4 nos. SS finished lever handle with mortise lock- 1 One NumberFloor spring- 1 One Number 100mm x 100mm safety glass at the specified location SSR 51.64	3.6	SMT	**13125**	**47250**
ITEM NO. 92 Grab bars-Providing SS grab bars set for accessible toilets comprising of 4 nos. Grab bars as specified below (1 nos. wing grab bar + 1 nos. L shaped grab bar + 2 nos. straight grab bars = 1 typical set) 27a) Swing grab bar (1 NOS) Providing a S.S. 304 SWING HANDICAP GRAB BAR - 700 mm and of DIA. 32MM and thickness 1.5mm of the roved brand and make. 27b) L Shaped grab bar (1 NOS) Providing S.S. 304 L SHAPED DISABLED GRAB BAR of IZE-600MM (H) X 600MM (D) and 32MM DIA. and thickness mm of the approved brand and make. 27c) Straight grab bar (2 NOS) Providing S.STEEL 304 GRAB RAIL (600 MM),32MM DIA. and thickness 1.5mm of the approved brand and make. SSR 51.89	1	NOS	**20475**	**20475**
ITEM NO.93 Fire Door 45mm 1HR FRL (60/60) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR - Fire Door Tested in accordance to IS: 3614 Part 2 SSR 50.81/347				
Providing 60 min Fire rated doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 at National Test House, Govt of India laborator and/or with Central Building Research Institute, Govt of India undertaking with standard heating conditions as specified in IS:3614 Part II 1992 and BS: 476 part 20 & 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature") with prior approval of concerned Superintending Engineer.				
ITEM NO.94 a) Door Frame. Supplying frames for Fire resistant door shutters 1st class Malaysian Hardwood Frame densified (810 Kilogram/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 of section 120 X 60 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of Brush- Type ASTROFLAME intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc complete	12	RMT	**1647.45**	**19769.4**
ITEM NO.95b) Shutter : Providing of 65mm thick asbestos free composite - 3 criteria - fire, heat and smoke check Accoustic Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as per IS:401and kiln seasoned to moisture below 15% as per IS:1141 frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128Kilograms/CMT), vermaculite mix faced with 6mm Fire retardant High Density ply, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of In tumescent paint of minimum 200 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without anyexternal lipping.	5.76	SMT	**9464.7**	**54516.672**

ITEM NO 96 c) Vision Panel 1 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside theshutter structure with 10 mm inside the shutter on all sides with U- glazing. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints. With clear fire resistant glass panes 11mm thick having minimum 120 minutes fire Description	0.36	SMT	35148.75	12653.55
ITEM NO 97 Providing and installing Nylon net for protection from Birds entry in Entrance Lobby (Exterior Projection) MCGM R3-CS-RM-133	1200	SMT	224	268800
ITEM NO 98 Providing and Fixing Adjustable Painting stand/Holder as per specification provided by the engineer in charge Approved MR	40	NOS	36500	1460000
ITEM NO 99 Providing and Fixing high tensile strings for hanging Paintings with frame as per specification provided by the engineer in charge. Approved MR	180	RMT	900	162000
ITEM NO 100 Supplying, erecting, testing and commissioning of float sensor switch for water level controller working on 250 V & rated current 8A, with 2 m wire & high quality of wire & plastic body CSR 12-4-28	6	NOS	413	2478
ITEM NO 101 Supplying, erecting, testing and commissioning of directly operated single phasing preventer complete erected and connected to supply to operate in case of single phasing with guarantee for minimum one year CSR 12-4-29	3	NOS	741	2223
ITEM NO 102 Supplying, erecting & marking FP MCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB CSR 5-3-13	8	NOS	1329	10632
ITEM NO 103 Providing and fixing Stainless steel sink of size 1145 x 510 x250 mm (Graceful Glory - Big) incluidng coupling, outlet pipe, elbow and other necessary fitting, finishing etc complete Approved MR Spec: As directed by Engineer-In-Charge	1	NOS	18280	18280
ITEM NO 104 Providing and fixing push cock (Self closing tap) symet type of 20 mm dia including necessary socket, testing etc complete SSR 41 55	10	NOS	489.3	4893
ITEM NO 105 Providing and fixing Autoclosing pillar cock of pressmatic tap of approved make or equivalent including all fixtures, fittings etc complete SSR 41 77	10	NOS	2742.6	27426
ITEM NO 106 Providing & erecting 4 Pole MCCB 415V, 630A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCBCSR 5-5-7	1	NOS	33016.8	33016.8
ITEM NO 107 Providing & erecting 3 Pole MCCB 415V, 630A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB (To be set at 500A) CSR 5-5-7	1	NOS	27514	27514
ITEM NO 108 Supplying, installing, testing and commissioning air circuit breaker manual fixed type, non-drawout type, 650V, 1000A rated at 50° C without deration, 12kV Impulse, 4 Pole (100% Neutral Protection), 50 kA (Ics=Icu=Icw for 1s),with standard accessories with ready to close, individual fault trip, alarm and trip indication, mechanical and electrical anti pumping, soft/hard rating plug (including hard rating plug CT) with Microprocessor based LCD display release with LSIG and temperature rise protection & with 4 C/O contacts for On-Off-Trip indication, min. 5 event and trip history on breaker display on provided iron frame as per specification no. SW-SWR/ACB CSR 5-8-3	1	NOS	129388	129388
ITEM NO 109 Providing & erecting 4 Pole MCCB 415V, 400A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V,no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-6	2	NOS	24250.8	48501.6
ITEM NO 110 Providing & erecting 4 Pole MCCB, 415V, 200A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-3	2	NOS	13310.4	26620.8
ITEM NO 111 Providing & erecting 4 Pole MCCB, 415V, 160A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-2	5	NOS	10832.4	54162
ITEM NO 112 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, interrupts, THD, complete with RS 485 communication protocol, class 1 accuracy and wiring connections and mounting hardware CSR 6-5-9	9	NOS	9436	84924
ITEM NO 113 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 CSR 6-7-1	10	NOS	355	3550

ITEM NO 114 Supplying, erecting & marking of surge arrestor/ surge protection device at the main distribution board after the incoming breaker of type 1+2 tested for Imax 50 kA for three phase and neutral with compliance to IEC 61643-11 as per specification no. CP-SPD CSR 6-8-3	6	NOS	**9552**	**57312**
ITEM NO 115 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 mounting hardware on provided panels complete with calibration certificate from manufacturer. CSR 6-5-13	2	NOS	**12298**	**24596**
ITEM NO 116 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 alarm contact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-1	40	NOS	**6969.6**	**278784**
ITEM NO 117 Supplying, erecting, testing & commisioning 125 kVAr, 3 phase, 50 Hz., APFC Panel with derated power contactor of suitable rating for capacitor switching Application for each step controlled by microprocessor based APFC relay consisting of 2,3,5,10,20,20,20,20,25 or suitable steps of MPP /APP type capacitor with 525 V and having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours with detuned aluminium wound reactor of 7/ 14% for each step, APFC Panel shall suitable rating MCCB as incomer and each branch/step shall have separate isolation with MCCB/MCB of Suitable rating for protection, compliance to IEC 61439 and power quality IEC 61921 standard as per specification no. CP-ED/APFC CSR 6-9-20	1	NOS	**506838**	**506838**
ITEM NO 118 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection provided on iron/GI frame as per specification no. SW-MCBDB CSR 5-4-11	8	NOS	**1605**	**12840**
ITEM NO 119 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 8 ways (8 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per specification no. SW-MCBDB CSR 5-4-10	7	NOS	**1503**	**10521**
ITEM NO 120 Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 4 ways/phase (12 poles), with door, 1.2mm thickness, surface/flush mounted, IP 43 protection on provided iron/GI frame (horizontal busbar type) as per specification no SW-MCBDB CSR 5-4-1	2	NOS	**2391**	**4782**
ITEM NO 121 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) as per specification no.SW-MCBDB CSR 5-4-2	2	NOS	**3317**	**6634**
ITEM NO 122 Supplying, erecting & marking DP MCB 6 A to 32 A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB CSR 5-3-7	15	NOS	**510**	**7650**
ITEM NO 123 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. CSR 5-4-15	32	NOS	**408**	**13056**
ITEM NO 124 Supplying and erecting modular type telephone socket one gang with safety shutter on provided plate and box with wiring connections complete CSR 1-6-15	13	NOS	**114**	**1482**
ITEM NO 125 Supplying and erecting modular type computer Jack RJ 45 with safety shutter, on provided plate and box with wiring connections complete CSR 1-6-17	23	NOS	**152**	**3496**
ITEM NO 126 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 COLOUR EARTH WIRE) CSR 1-3-1	400	RMT	**23**	**9200**
ITEM NO 127 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 the background. CSR 1-6-37	16	NOS	**298**	**4768**
ITEM NO 128 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background CSR 1-6-39	18	NOS	**454**	**8172**
ITEM NO 129 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background CSR 1-6-40	16	NOS	**544**	**8704**
ITEM NO 130 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 16/18 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background CSR 1-6-41	12	NOS	**614**	**7368**
ITEM NO 131 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 COLOUR EARTH WIRE) CSR 1-3-2	850	RMT	**35.5**	**30175**

ITEM NO 132 Supplying & erecting mains with 2x4 sq mm FRLSH copper PVC insulatedwire laid in provided conduit/trunking/inside pole/bus bars or any other places as per specification no WG-MA/BW 9CSR 1-3-3	1000	RMT	99	99000
ITEM NO 133 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 9 (green colour) CSR 1-3-3	100	RMT	99	9900
ITEM NO 134 Supplying & erecting mains with 4x4 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 selected as per IS 732:2019 CSR 1-3-3	360	RMT	247.5	89100
ITEM NO 135 Supplying & erecting HMS PVC conduit 20mm dia with necessary accessories in wall/floor with chiselling appropriately as per specification no WG-MA/CC CSR 1-1-7	2220	RMT	104	230880
ITEM NO 136 Supplying & laying HMS PVC conduit 20mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification no WG-MA/CC CSR 1-1-8	3900	RMT	90	351000
ITEM NO 137 Supplying & erecting HMS PVC conduit 25mm dia with necessary accessories in wall/floor with chiselling appropriately as per specification no WG-MA/CC CSR 1-1-9	1575	RMT	116	182700
ITEM NO 138 Supplying & laying HMS PVC conduit 25mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification WG-MA/CC CSR 1-1-10	670	RMT	102	68340
ITEM NO 139 Supplying & laying HMS PVC conduit 32mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification no WG-MA/CC CSR 1-1-12	180	RMT	139	25020
ITEM NO 140 Supplying & erecting HMS PVC conduit 32mm dia with necessary accessories in wall/floor with chiselling appropriately as per specification no WG-MA/CC CSR 1-1-11	125	RMT	153	19125
ITEM NO 141 Supplying and erecting 25mm dia corrugated flexible polypropylene conduit CSR 1-2-2	100	RMT	19	1900
ITEM NO 142 Supplying, erecting & terminating FR 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 in provided trench/ pipe as per specification no CB-LT/AL (WIRE AMOURED) CSR 7-1-16	250	RMT	341.55	85387.5
ITEM NO 143 Supplying, erecting & terminating FR XLPE insulated, galvanised steelformed wire armoured (strip) cable, 1100 V 4 core 25 sq. mm aluminiumconductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe as per specification no CB-LT/AL (Provisonal qty)CSR 7-1-30	305	RMT	265	80825
ITEM NO 144 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 95 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 (Wire Armoured) CSR 7-1-19	10	RMT	702.65	7026.5
ITEM NO 145 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 240 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 (Wire Armoured) CSR 7-1-23	100	RMT	1587	158700
ITEM NO 146 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 300 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 (Wire Armoured) CSR 7-1-24	100	RMT	1896.35	189635
ITEM NO 147 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 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 (Wire Armoured) CSR 7-1-18	100	RMT	499	49900
ITEM NO 148 Supplying & erecting single compression type brass cable glands for 4 core 35 Sq mm /3 core 50 Sq mm cable as per specification no CB-GL CSR 7-7-4	2	NOS	208	416
ITEM NO 149 Supplying & erecting single compression type brass cable glands for 3½ core 95 sq mm cable as per specification No CB-GL CSR 7-7-7	4	NOS	315	1260
ITEM NO 150 Supplying & erecting Single Compression type brass cable glands for 3½core 240 sq mm cable as per specification No CB-GL CSR 7-7-11	4	NOS	586	2344
ITEM NO 151 Supplying & erecting Single Compression type brass cable glands for 3½core 300 sq mm cable as per specification No CB-GL CSR 7-7-12	4	NOS	799	3196
ITEM NO 152 Supplying & erecting single compression type brass cable glands for3½ core 70 sq mm. cable as per specification no CB-GL CSR 7-7-6	4	NOS	280	1120
ITEM NO 153 Supplying & erecting crimping type aluminum lugs for cable 25 sq mm complete as per specification No CB-CL/AL (provisional qty) CSR 7-10-2	8	NOS	12	96

ITEM NO 154 Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification No. CB-CL/AL CSR 7-10-3	8	NOS	**19**	**152**
ITEM NO 155 Supplying & erecting crimping type aluminium lugs for cable 95 sq mmcomplete as per specification No. CB-CL/ALCSR 7-10-6	8	NOS	**33**	**264**
ITEM NO 156 Supplying & erecting crimping type aluminium lugs for cable 70 sq mm complete as per specification No. CB-CL/AL CSR 7-10-5	8	NOS	**31**	**248**
ITEM NO 157 Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete as per specification No. CB-CL/AL CSR 7-10-10	16	NOS	**112**	**1792**
ITEM NO 158 Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete as per specification No. CB-CL/AL CSR 7-10-11	16	NOS	**163**	**2608**
ITEM NO 159 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 quantity (min. 125kg) complete, and recording the results specification no. EA-MF CSR 9-1-5	11	NOS	**12357**	**135927**
ITEM NO 160 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/ road surface, complete CSR 7-6-12	350	RMT	**374**	**130900**
ITEM NO 161 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 complete(8 SWG) CSR 9-2-5	102	KG	**168**	**17136**
ITEM NO 162 Providing & erecting hot dipped galvanised ladder type cable tray manufactured from 16 SWG GI sheet of 300 mm width & 100 mm height with required standard accessories CSR 7-11-3	300	RMT	**859**	**257700**
ITEM NO 163 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 CSR 7-11-8	150	RMT	**846**	**126900**
ITEM NO 164 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16 SWG GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware CSR 7-11-7	100	RMT	**676**	**67600**
ITEM NO 165 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 CSR 7-11-6	220	RMT	**590**	**129800**
ITEM NO 166 Supplying, erecting, testing & commissioning of 20 kVA capacity on line puresine wave,PWM,IGBT based UPS with 0.9 to unity output pf ,3 phase input &3 phase output complete with all protections as per specification no. APUPS(Without batteries)CSR 3-7-8	2	NOS	**290248**	**580496**
ITEM NO 167 Supplying and erecting 12 V/100Ah SMF battery with battery terminal wire, duly charged complete with 24 months warranty complete for 30 mins battery backup CSR 3-8-12	60	NOS	**9549**	**572940**
ITEM NO 168 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-IDF/LED (Final light fittings to be as per Architects selection) CSR 2-1-12	65	NOS	**1915**	**124475**
ITEM NO 169 Supplying and erecting CRCA powder coated light LED fitting (4 feet) Max. 33W 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 including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-19	10	NOS	**1409**	**14090**
ITEM NO 170 Supplying and erecting anodized aluminium light LED fitting (4 feet) Max. 22W with high transitivity diffuser with system lumens output of Min 2200 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 driver with end caps on provided PVC Block/wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-18	20	NOS	**802**	**16040**
ITEM NO 171 Supplying and erecting integrated LED Bollard Cylindrical / Cubical shaped 800mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with minimum 2 Year warranty as per specification No FG-ODF/BL. (Final light fittings to be as per Architects selection) CSR 2-3-20	53	NOS	**6834**	**362202**
ITEM NO 172 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 arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED (Final light fittings to be as per Architects selection) CSR 2-1-5	630	NOS	**1544**	**972720**

ITEM NO 173 Supplying and erecting LED square / circular Max. 14 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 mountingarrangement with board for surface type or spring loaded mounting clipscomplete with minimum 2 years warranty as per specification No. FG-IDF/LED wattage considered 12W (Final light fittings to be as per Architects selection-OUL354)CSR 2-1-4	65	NOS	1224	79560
ITEM NO 174 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-15	46	NOS	1423	65458
Supply,Installation, testing & commissioning of following light fixtures complete with a) All fixing accessories, mounting Brackets, anchor fasteners, suspension wires/chains etc necessary for completeness of installation b) Drivers / Controllers with housing c) Lamp of specified wattage d) Earthing of fittings e) Diffuser shall lit up uniformly without any black spot on diffuser f) Light fixture finishes should be as specified g) Any visible power supply cable to light fixture shall be transperent h) All suspended fixtures shall be provided with SS caps to put around suspension at flase ceiling level Note 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant				
ITEM NO 175 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 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-6	880	NOS	1945	1711600
ITEM NO 176 Supplying and erecting LED Panel Light (600mm X 600mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 4200 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 board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-8	5	NOS	2887	14435
ITEM NO 177 Supplying and erecting CRCA powder coated light LED fitting (4 feet) Max. 50W with high transitivity diffuser with system lumens output of Min. 6000 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, rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED (15W Track Light-OTSL1251)CSR 2-1-20	65	NOS	2278	148070
ITEM NO 178 Supplying and erecting CRCA powder coated light LED fitting 15W Track Light-OTSL1252 with high transitivity diffuser with system lumens output of Min. 6000 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, rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-20	60	NOS	2278	136680
ITEM NO 179 Supplying and erecting CRCA powder coated mirror light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 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, IP 20 rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	10	NOS	641	6410
ITEM NO 180 Supplying and erecting 18W Wall light (OWL 402) 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-17	5	NOS	641	3205
ITEM NO.181 Supplying and erecting rectangular shaped LED Panel Light (1200mm X 300mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 4200 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 board for surface type or spring loaded mounting clips complete with 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-9	25	NOS	3027	75675
ITEM NO 182 Supplying and erecting CRCA powder coated mirror light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angleof 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, IP 20 rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	40	NOS	641	25640

ITEM NO.183 Supplying and erecting 15W Bulkhead light (OWL 402) 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	50	NOS	641	32050
ITEM NO.184 Supplying, installing, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 2 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 54 / VdS/FM & UL 864(10th edition) with 3 years replacement warranty and inclusive of lifetime software license validity , as per specification noFF-AFAS/CP CSR 13-10-2	1	NOS	172095	172095
ITEM NO.185 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_Ref12020_EN 54 /VdS / UL & FM approved with 3 years equipment replacement warranty, Designed to meet UL268, 7th Edition. FFAFAS/ SD CSR 13-10-5	135	NOS	2380	321300
ITEM NO.186 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 - 1988 reaffirmed 2000, IS 15908:2021 / EN 54 / VdS / UL & FM approved with 3 years equipment replacement warranty, Designed to meet UL268, 7th Edition. FF-AFAS/HD - ROR CSR 13-10-6	9	NOS	2714	24426
ITEM NO.187 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 warranty, as per specification no FFAFAS/ CRM-FCM CSR 13-10-10	16	NOS	3779	60464
ITEM NO.188 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 relays, EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, as per specification no FF-AFAS/MM CSR 13-10-11	16	NOS	3730	59680
ITEM NO.189 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 whichshall blink in normal state & get steady on activation to monitor the health status of the device module complete as required. Module shall conforming to IS 5051 Part 2 (Sec 1 to 3) : 1982, , EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, FF-AFAS/ISMCSR 13-10-12	14	NOS	3055	42770
ITEM NO.190 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" massage embedded on the glass, complete erected with mounting base and required accessories, Module shall conform to EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, as per specification no FF-AFAS/MCP. CSR 13-10-13	12	NOS	3579	42948
ITEM NO.191 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 equipment replacement warranty, as per specification no FF-AFAS/ S-ST CSR 13-10-14	8	NOS	7837	62696
ITEM NO.192 Supplying, installing, testing and commissioning of repeater panel with suitable battery backup of a minimum of 24 hours in normal condition and 30 mn in alarm condition, minimum 10" LCD or LED display with resistive touch screen or function keys and automatic back-light dimming and the status of any Fire/Fault of Integrated Fire Alarm Panels or minimum 80 characters backlit alphanumeric LCD display with inbuilt buzzer to indicate fault/fire alarm, manual control keys for silence/mute and to reset the FACP from the repeater station. Panel shall conforming to IS 15908:2021, IS 2189: 2008, NFPA-72, EN 54 / VdS/FM & UL with 3 years replacement warranty FF-AFAS/RP. (Compatible with 1/2 Loop Fire Alarm Control Panel), as per specification no FF AFAS/RP CSR 13-10-16	1	NOS	74506	74506
ITEM NO.193 Supplying, erecting, testing & commissioning Mixer Amplifier 500W RMS Power with Built-in Digital Player with remote and having 7 Mic & 3 Aux Inputs with Box Speaker/Driver Unit selector switch to each zone , stereo/mono switch, frequency response 50-15000Hz, output regulation <2dB, serprate control for USB level. The unit shall have Preamplifier and Line Output for connecting to a Booster Amplifier and for recording the programme with Resettable circuit breaker for protection against overload and short circuit. The unit shall have speaker output range of 2Ω, 4Ω/(Low Impedence) and 70V & 100V/(High Impedence) & It can instant transfer to DC power(36V) if AC power fails. Signal to noise ratio between 60dB to 80dB. Complete as per specification no. PA-MA CSR 19-7-12	1	NOS	27671	27671

ITEM NO 194 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 response and adjustable tweeter complete as per specification no PA-FMCS (5W tap consideration) CSR 19-7-14	97	NOS	2334	226398
ITEM NO 195 Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, transparent PVC insulated 2C x 1 sqmm speaker wire in provided trunking/conduit etc complete as per specification no PA-TSPWRCSR 19-7-25	991.2	RMT	41	40639.2
ITEM NO 196 Supplying & erecting of High definition 2 Megapixel IP IR Bullet Camera with following features 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, ONVIF profile conformant, minimum IR distance : 30m, Lens Type : 2.8/4/6 mm Lens, fixed focal, CSR 19-6-1	8	NOS	7917	63336
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, sharpness, gain, white balance Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation				
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 compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no CCTV-CAM				
ITEM NO 197 Supplying & erecting of High definition 2 Megapixel IP IR Dome Camera with following features 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, ONVIF profile conformant, minimum IR distance : 30m, Lens Type : 2.8/4/6 mm Lens, fixed focal, CSR 19-6-3	58	NOS	7854	455532
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, sharpness, gain, white balance Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation				
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 compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no CCTV-CAM				
ITEM NO 198 Supplying, installing, testing & commissioning of 32/40 Ch. Network Video Recorder (NVR), suitable connect Min. 32 IP Cameras, up to 5 Megapixel Resolution, with HDMI/VGA outputs, provided HDMI output of 4K resolution or VGA output with output up to 1920 × 1080. Support H.265 or higher, H.264, MJPEG, Incoming Bandwidth 250Mbps with minimum 4 SATA Hard Disks, ANR Technology, 4 SATA interfaces for 4 HDDs and capacity of each HDD up to 8TB, minimum 02 USB port, Alarm I/O 16/4, RJ-45 10/100/ 1000 Mbps self-adaptive Ethernet interface, ONVIF conformance, Multiple network monitoring. Web viewer support protocol TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS. RoHS, UL, CE, FCC certified duly erected in provided U Rack with wiring connections, tagging and programming etc complete as per specification no CCTV-NVR CSR 19-6-15	2	NOS	45460	90920
ITEM NO.199 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. CSR 19-1-23	4	NOS	4641	18564

ITEM NO 200 Supplying & erecting 8 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD CSR 19-6-21	4	NOS	**23722**	**94888**
ITEM NO 201 Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following featuresBrightness: minimum 250 Cd/m2Contrast Ratio: minimum 1000:1Viewing angle: 178/178 deg.Response time: maximum 8 msInputs: 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 complete as per specifications no. CCTV-MON CSR 19-6-23	2	NOS	**24069**	**48138**
ITEM NO 202 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. WG-NAS/PP CSR 19-5-4	4	NOS	**11017**	**44068**
ITEM NO 203 Supplying and fixing 12 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 specification no. WG-NAS/ LIU CSR 19-5-6	2	NOS	**5265**	**10530**
ITEM NO 204 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 necessary arrangement for fixing complete CSR 19-5-17	6	NOS	**5270**	**31620**
ITEM NO. 205 Supplying and fixing 9U wall mount rack (Dimension-DxWxH – 500x550x480 mm) as per specification no. WG-NAS/RAK CSR 19-5-19	4	NOS	**9615**	**38460**
ITEM NO 206 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 CSR 19-3-1	3040	RMT	**57**	**173280**
ITEM NO 207 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-ELVC/PC CSR 19-3-16	50	NOS	**243**	**12150**
ITEM NO 208 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-ELVC/OFC CSR 19-3-11	50	RMT	**302**	**15100**
ITEM NO 209 Supplying and fixing SC/SC type multimode pigtails (OM3) for LIU to terminate OFC in LIU as per specification no. WG-NAS/LIU2 CSR 19-5-13	2	NOS	**815**	**1630**
ITEM NO 210 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 rating , conforming to EN 1366-4 2021 as per specification no FF-FRS CSR 13-12-1	50	NOS	**1495**	**74750**
ITEM NO 211 Providing & erecting 4 Pole MCCB, 415V, 800A, rated short-circuit breaking capacity 50 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCBCSR 5-5-8	2	NOS	**55569.6**	**111139.2**
ITEM NO 212 Providing & erecting 3 Pole MCCB 415V, 320A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V,no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-5	2	NOS	**23994**	**47988**
ITEM NO 213 Supplying, erecting & marking FP MCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB. CSR 5-3-13	2	NOS	**1329**	**2658**
ITEM NO 214 Supplying & erecting ON LOAD change over switch 4 Pole, 415V, 40A, open execution having staggered termination, phase barrier, shroud termination and terminalcover along with auxiliary contacts and ready to upgrade with fuse protection kit, operational current category AC23A complying to IS/IEC 60947-3 Part-1/3 as per specification no SW-SWR/COS CSR 5-1-2	1	NOS	**3235**	**3235**
ITEM NO 215 Supplying, erecting & marking FP MCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB CSR 5-3-12	100	NOS	**1059**	**105900**
ITEM NO 216 Supplying, erecting, testing & commisioning 200 kVAr, 3 phase, 50 Hz., APFC Panel with derated power contactor of suitable rating for capacitor switching Application for each step controlled by microprocessor based APFC relay consisting of 2,3,5,10,10,20,25,25,50,50 or suitable steps of MPP /APP type capacitor with 525 V and having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours with detuned aluminium wound reactor of 7/ 14% for each step. APFC Panel shall suitable rating MCCB as incomer and each branch/step shall have separate isolation withMCCB/MCB of Suitable rating for protection, compliance to IEC 61439 and power quality IEC 61921 standard as per specification no. CP-ED/APFC CSR 6-9-22	1	NOS	**621368**	**621368**
ITEM NO 217 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 2 ways (2 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per specification no. SW-MCBDB CSR 5-4-7	1	NOS	**818**	**818**

ITEM NO 218 Supplying, fixing and commissioning 2 pole RCBO up to 25A, 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 as per specification no SW-RCBO CSR 5-6-9	14	NOS	3179	44506
ITEM NO 219 Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 4 ways/12 Poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame (vertical busbar type) as per specification no. SW-MCBDB CSR 5-4-4	1	NOS	4582	4582
ITEM NO 220 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 4 ways (4 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per Specification no. SW-MCBDBCSR 5-4-8	1	NOS	984	984
ITEM NO 221 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 as per specification no SW-RCBO CSR 5-6-13	2	NOS	4212	8424
ITEM NO 222 Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 12 ways/36 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame (vertical busbar type) as per specification no. SW-MCBDB CSR 5-4-6	11	NOS	7739	85129
ITEM NO 223 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 the background CSR 1-6-37	63	NOS	298	18774
ITEM NO 224 Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification No. CB-CL/AL CSR 7-9-2	96	NOS	36	3456
ITEM NO 225 Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification No. CB-CL/AL CSR 7-9-3	8	NOS	42	336
ITEM NO 226 Supplying, erecting, testing & commissioning of 10 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.9 to unity output pf ,3 phase input & 3 phase output complete with all protections as per specification no. AP-UPS(Without batteries) CSR 3-7-7	1	NOS	180484	180484
ITEM NO 227 Supplying and erecting anodized aluminium mirror light LED fitting (2 feet) for toilet area Indirect lighting 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 driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-16	31	NOS	455	14105
ITEM NO 228 Supplying, installing, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 4 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 54 / VdS/FM & UL 864(10th edition) with 3 years replacement warranty and inclusive of lifetime software license validity , as per specification noFF-AFAS/CP. CSR 13-10-3	1	NOS	279040	279040
ITEM NO 229 Supplying & erecting 4 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S, Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs, HTTPS, RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDDCSR 19-6-20	2	NOS	12340	24680
ITEM NO 230 Supplying & erecting HMS PVC conduit 40mm dia. with necessary accessories in wall/floor/RCC work/false ceiling/false flooring with chiselling appropriately as per specification no. WG-MA/CC Approved MR	2865	RMT	234	670410
ITEM NO 231 Supplying & laying flexible HMS PVC conduit 40mm dia. with necessary accessories Approved MR	937.5	RMT	90	84375
ITEM NO 232 SITC of white Pop-Up box for Library area switch socket installation. The configuration to consist of 5switch+5 socket complete in all respect, flushed with the table Approved MR	20	NOS	5500	110000
ITEM NO 233 Supply,Installation, testing & commissioning of following light fixtures complete with a) All fixing accessories, mounting Brackets, anchor fasteners, suspension wires/chains etc. necessary for completeness of installation. b) Drivers / Controllers with housing. c) Lamp of specified wattage. d) Earthing of fittings. e) Diffuser shall lit up uniformly without any black spot on diffuser. f) Light fixture finishes should be as specified. g) Any visible power supply cable to light fixture shall be transperent h) All suspended fixtures shall be provided with SS caps to put around suspension at flase ceiling level Note: 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant. MR				
45 W LED DOWN LIGHT FITTING SURFACE MOUNTED / SUSPENSION MOUNTED	134	NOS	3635.25	487123.5
15 W TRACK LIGHT WITH COB LED & EXTRUDED ALUMINIUM HOUSING	55	NOS	1550	85250

SINGLE PHASE 1 MTR. TRACK FOR TRACK LIGHTS	60	SET	590	35400
LED DECORATIVE HANGING LIGHT FITTINGS	21	NOS	26200	550200
RGB FLOOR STRIP LIGHTS OF 300 mm. LENGTH WITH CONTROLLER	123	NOS	1638	201474
5 W LED STUDY TABLE LAMP	9	NOS	4585	41265
ITEM NO 234 Supply, Installation,Testing & Commissioning of Response indicator for all detectors located above false ceiling. Complete as required Approved MR	68	NOS	250	17000
ITEM NO. 235 Supplying and erecting electronic type cordless call bell erected on T.W. board having portable bell push working on 9V D.C. battery and (effective range upto 45 meter) bell on 250 V A.C. supply CSR 2-2-5	5	NOS	555	2775
ITEM NO 236 Providing & fixing AC Charger of model named as AC Type 2 with power rating of 7.4 kW & charging connector IEC62196-2 Gun, the input power supply should be of one phase with all required accessories. (For all 4 W of 2nd generation like Nexon, MG, Mercedes etc.) complete as per specification and drawing provided by the Engineer InchargeApproved MR	2	NOS	84375	168750
ITEM NO 237 Providing & fixing AC Charger of model named as Bharat AC01 with power rating of 3x3.3 KW & charging connector 3 NOS of 16 A Socket, the input power supply should be of three phase with all required accessories. (For 2/3 W & 4 W slow charging) complete as per specification and drawing provided by the Engineer Incharge Approved MR	1	NOS	77625	77625
ITEM NO 238 Providing & fixing DC Fast Charger of model named as CCS2 with power rating of 30 KW & charging connector 1 NOS of 30 KW CCS2 gun, the input power supply should be of three phase with all required accessories and the output current wil be 125 A per Gun. (For all 4 W of 2nd generation like Nexon, MG, Mercedes etc.) complete as per specification and drawing provided by the Engineer Incharge Approved MR	2	NOS	739800	1479600
ITEM NO 239 Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB CSR 5-3-2	12	NOS	174	2088
ITEM NO 240 Supplying, erecting & marking SPMCB 6A to 32A, B-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB CSR 5-3-3	40	NOS	173	6920
ITEM NO 241 Supplying, erecting & commissioning 4 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB CSR 5-6-5	4	NOS	2756	11024
ITEM NO 242 Supplying, erecting & commissioning 4 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB CSR 5-6-4	8	NOS	2722	21776
ITEM NO 243 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 CSR 5-6-1	8	NOS	2136	17088
ITEM NO 244 Providing & erecting floor/wall mounting, MCCB panel board, with door, suitable for 4 pole incoming 250A, 12 ways 4 pole outgoing, up to 100A MCCBs on iron frame, as per specification no. SW-MCCBPB. (Excluding MCCBs) CSR 5-7-5	1	NOS	71221	71221
ITEM NO 245 Supplying, erecting, testing & commisioning 50 kVAr, 3 phase, 50 Hz., APFCPanel with derated power contactor of suitable rating for capacitor switchingApplication for each step controlled by microprocessor based APFC relayconsisting of 2,3,3,5,5,7,10,15 or suitable steps of MPP /APP type capacitor with525 V and having minimum overcurrent capacity of 1.8 In, peak inrush currentcapacity 300 In and minimum life 150000 hours with detuned aluminiumwound reactor of 7/ 14% for each step, APFC Panel shall suitable ratingMCCB as incomer and each branch/step shall have separate isolation withMCCB/MCB of Suitable rating for protection, compliance to IEC 61439 andpower quality IEC 61921 standard as per specification no. CP-ED/APFC CSR 6-9-18	1	NOS	273707	273707
ITEM NO 246 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 150 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 CSR 7-1-21	100	m	902	90200
ITEM NO 247 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 120 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 CSR 7-1-20	30	m	761	22830
ITEM NO 248 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/ pipe as per specification no. CB-LT/CU CSR 7-2-32	200	m	398	79600
ITEM NO 249 Supplying, erecting & terminating FR 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-LT/CU CSR 7-2-31	250	m	299	74750
ITEM NO 250 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/ pipe as per specification no. CB-LT/CU CSR 7-2-33	250	m	605	151250
ITEM NO 251 Supplying & erecting single compression type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm cable as per specification No. CB-GL CSR 7-7-1	26	Nos	73	1898
ITEM NO 252 Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm cable as perspecification No. CB-GLCSR 7-7-2	6	Nos	93	558

ITEM NO 253 Supplying & erecting single compression type brass cable glands for 3½ core 120 sq mm cable as per specification No CB-GL CSR 7-7-8	2	Nos	372	744
ITEM NO 254 Supplying & erecting single compression type brass cable glands for 3½ core 150 sq mm cable as per specification No CB-GL CSR 7-7-9	2	Nos	372	744
ITEM NO 255 Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No CB-CL/CU CSR 7-9-1	32	Nos	24	768
ITEM NO 256 Supplying & erecting crimping type aluminium lugs for cable 120 sq mm complete as per specification No CB-CL/AL CSR 7-10-7	8	Nos	47	376
ITEM NO 257 Supplying & erecting crimping type aluminium lugs for cable 150 sq mm complete as per specification No CB-CL/AL CSR 7-10-8	8	Nos	59	472
ITEM NO 258 Supplying, erecting, testing & commissioning of 3 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.8 to unity output pf ,single phase input & 1 phase output complete with all protections as per specification no AP-UPS (Without batteries) CSR 3-7-3	1	Each	51298	51298
ITEM NO 259 Supplying and erecting 12 V/65Ah SMF battery with battery terminal wire, duly charged complete with 24 months warranty complete CSR 3-8-11	5	Each	6683	33415
ITEM NO 260 Supplying, erecting, testing & commisioning 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 sleeve complete as per specification no CP-BB CSR 6-2-11	20	kg	723	14460
ITEM NO 261 Supplying, erecting, testing & commisioning metal work in CRCA sheet including Iron work for supports with fabrication of boxes, panel boards, etc. including cutting, bending, drilling, welding, riveting, treated with anti-rust treatment and painted with one coat of red lead paint and 2 coats of enamel paint or powder coating complete as per specification no CP/SH/CR CSR 6-1-1	150	kg	261	39150
ITEM NO 262 Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 36 ways, on iron frame/wooden board (Horizontal type) as per specification No SW-SWR/MCBDB CSR 5-4-3	5	NOS	4118	20590
ITEM NO 263 Supplying and erecting modular type switch 6A / 10A ISI markapproved make duly erected on provided plate and box withwiring connections complete CSR 1-6-1	50	NOS	72	3600
ITEM NO 264 Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete CSR 1-6-2	50	NOS	108	5400
ITEM NO 265 Supplying and erecting modular type 3 pin 6/16A multi socket with safety shutter on provided plate and box with wiring connections complete CSR 1-6-11	50	NOS	186	9300
ITEM NO 266 Supplying and erecting modular type 3 pin 6A multi socket with safety shutter on provided plate and box with wiring connections complete CSR 1-6-10	20	NOS	116	2320
ITEM NO 267 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 morter / POP as per required to match the background in an approved manner CSR 1-6-34	20	NOS	231	4620
ITEM NO 268 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 morter / POP as per required to match the background in an approved manner CSR 1-6-35	12	NOS	234	2808
ITEM NO 269 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 morter / POP as per required to match the background in an approved manner CSR 1-6-36	10	NOS	269	2690
ITEM NO 270 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 morter / POP as per required to match the background in an approved manner. CSR 1-6-38	10	NOS	389	3890
ITEM NO 271 Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box. CSR 1-6-24	5	NOS	24	120
ITEM NO 272 Supplying, fixing, and configuring 48 Ports + 4 SFP combo, layer 2, GB managed ethernet switch, with web view compliant with IEEE 802.3 standards erected in provided rack complete CSR 19-4-20	1	NOS	148779	148779
ITEM NO 273 Supplying, erecting, testing and commissioning of 18HP, 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 1000 metre 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled	2	NOS	473202	946404

condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete.CSR 3-11-7				
ITEM NO.274 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 1000 metre 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete. CSR 3-11-6	6	NOS	**455315**	**2731890**
ITEM NO.275 Supplying, erecting, testing and commissioning of 14HP, 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 1000 metre 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete. CSR 3-11-5	6	NOS	**417935**	**2507610**
ITEM NO.276 Supplying, erecting, testing and commissioning of 12HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete CSR 3-11-4	2	NOS	**321588**	**643176**
ITEM NO.277 Supplying, erecting, testing and commissioning of 10HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete CSR 3-11-3	6	NOS	**303287**	**1819722**
ITEM NO.278 Supplying, erecting, testing and commissioning of 7HP to 8HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete CSR 3-11-2	1	NOS	**289164**	**289164**
ITEM NO.279 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 consisting with any additional refrigerant and oil charge as per requirement during installation.CSR 3-11-22	35	NOS	**39451**	**1380785**
ITEM NO.280 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 2.0TR (618 cfm) to 2.3TR (671 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 consisting with any additional refrigerant and oil charge as per requirement during installation. CSR 3-11-20	23	NOS	**38002**	**874046**
ITEM NO.281 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 1.5TR (512 cfm) to 1.8TR (618 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 consisting with any additional refrigerant and oil charge as per requirement during installation CSR 3-11-19	6	NOS	**37640**	**225840**

ITEM NO 282 Supply, installation, testing and commissioning of VRV / VRF based ductable type, high static room/indoor unit (IDU) having nominal cooling capacity of 8.0TR (3200 cfm) having EER as per BEE standards and specifications with evaporator fan with motor, copper tube aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power supply, etc. having anti-corrosive coating suitable for costal area and decorative slim dimension suitable for ceiling suspended arrangement with an electronic control console and any additional refrigerant and oil charge as per requirement during installation complete CSR 3-11-56	9	NOS	64592	581328
ITEM NO 283 Supply, installation, testing and commissioning of VRV / VRF based ceiling suspended 8.0TR (6600 cfm) to 10.0TR (8200 cfm) Treated Fresh Air (TFA) (5380 cfm) room/IDU with evaporator fan with motor, copper tube, aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power having anti-corrosive coating suitable for costal area with decorative slim dimension suitable ceiling suspended arrangement and an electronic control console with any additional refrigerant and oil charge as per requirement during installation complete 1236 CFM / 8.0TR CSR 3-11-59	4	NOS	93866	375464
ITEM NO 284 Supply, installation, testing and commissioning of VRV / VRF based ceiling suspended 6.5TR Treated Fresh Air (TFA) (5380 cfm) room/IDU with evaporator fan with motor, copper tube, aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power having anti-corrosive coating suitable for costal area with decorative slim dimension suitable ceiling suspended arrangement and an electronic control console with any additional refrigerant and oil charge as per requirement during installation complete. 988 CFM / 6.0TRCSR 3-11-58	1	NOS	74475	74475
ITEM NO 285 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-89	105	NOS	2662	279510
ITEM NO 286 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-90	140	NOS	2487	348180
ITEM NO 287 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-91	200	NOS	2435	487000
ITEM NO 288 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 damages, fungal growth, flame spread, water permeance and ultra violet radiation with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-92	310	NOS	1634	506540
ITEM NO 289 Supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 19.1mm 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 19 mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete. CSR 3-11-93	350	NOS	1272	445200
ITEM NO 290 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-94	340	NOS	1119	380460
ITEM NO 291 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-95	180	NOS	831	149580
ITEM NO 292 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	340	NOS	700	238000

multicoating of VRV/VRF piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete. CSR 3-11-96				
ITEM NO 293 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 6.4mm 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 damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete. CSR 3-11-97	45	NOS	544	24480
ITEM NO 294 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 normal operation of the VRV/VRF air conditioning system CSR 3-11-86	90	NOS	6144	552960
ITEM NO 295 Providing and fixing on walls/ ceiling/ floor 50mm dia.CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete SSR 42.60	100	RMT	778.05	77805
ITEM NO 296 Providing and fixing on walls /ceiling/ floor 40mm dia.CPVC pipe with necessary fittings,remaking good the demolished portion etc. complete. Pipeline if necessar yand conveying and stacking the same in PWD chowky or as directed etc. complete SSR 42.59	150	RMT	565.95	84892.5
ITEM NO 297 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 the same in PWD chowky or as directed etc. complete SSR 42.58	200	RMT	452.55	90510
ITEM NO 298 Providing and fixing on walls/ ceiling/ floor 25mm dia.CPVC pip ewith necessary fittings,remaking good the demolished portion etc. complete Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc complete SSR 42.57	300	RMT	393.75	118125
ITEM NO 299 Supplying, erecting, testing & commisioning 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 of red lead paint and 2 coats of enamel paint as per specification no. CP/SH/CRCSR 6-1-2	1750	SMT	1482	2593500
ITEM NO 300 Supplying, erecting, testing & commisioning GI sheet 0.8 mm (22 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 of red lead paint and 2 coats of enamel paint as per specification no. CP/SH/CR CSR 6-1-3	200	SMT	1503	300600
ITEM NO 301 Supply, fabrication, installation an testing of flexible canvass connections constructed between ductable unit/dampers/ducting of suitable size with fire resist flexible double canvas sleeve complete. CSR 3-11-82	15	NOS	2952	44280
ITEM NO 302 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. CSR 3-11-83	1500	SMT	1048	1572000
ITEM NO 303 Providing and applying of acoustic insulation for air ducts with 25mm thick, 48kg/cu.m fiber glass faced with RP tissue and covered with 26SWG perforated aluminium sheets complete CSR 3-11-84	150	SMT	1191	178650
ITEM NO 304 Supplying, installing and testing of 25 mm thick underdeck insulation. Insulation material shall be Closed Cell Elastomeric Nitrile Rubber. Thermal conductivity of insulation material shall not exceed 0.035 W/(m K) at mean temperature of 0°C as per EN 12667. Moisture DiffUsion Resistance Factor or 'μ' value of insulation material shall be minimum 7,000 without any external barrier as per EN 12086. The insulation shall have fire performance such that it passes Class 1 as per BS476 Part 7 for surface spread of flame as per BS 476 and also pass Fire Propagation requirement as per BS476 Part 6 to meet the Class 'O' Fire category as per 1991 Building Regulations (England & Wales) and the Building Standards (Scotland) Regulations 1990. The insulation material shall have fire performance of V0, HB as per UL 94, 1996. Material should be FM (Factory Mutual), USA approved. The insulation material shall be dust and fibre free. Approved MR	2335	SMT	1215	2837025
ITEM NO 305 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 of 15/30/45°. CSR 3-11-88	200	JOB	1364	272800
ITEM NO 306 Supply, installation, testing and commissioning of volume control box with collar for control damper of required sizes in GI construction with operating mechanism, mounting arrangement, rubber refrigerant kits etc. complete CSR 3-11-81	8	SMT	6265	50120
ITEM NO 307 Supplying and installing of collar damper of galvanised iron material of upto 120 microns for anti corrosive resistance for supply air grill of suitable size CSR 3-11-87	10	SMT	6948	69480
ITEM NO 308 Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (201-400 cfm) Approved MR	2	NOS	4750	9500
ITEM NO 309 Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (401-600 cfm)Approved MR	26	NOS	5500	143000

ITEM NO 310 Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (601-800 cfm) Approved MR	2	NOS	6500	13000
ITEM NO 311 Aluminium Extruded Fresh Air & Exhaust Rain Protection Air Louvers with Bird screen Approved MR	6	NOS	12000	72000
ITEM NO 312 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 two coats of enamel paint to match the switchgears or as per directions by the site engineer (FOR OUT DOOR UNIT) CSR 6-1-19	550	KG	196	107800
ITEM NO 313 Supplying, erecting, testing and commisstioning 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, temperature limitation, history function complete erected on wall integrated with provided fire alarm system CSR 3-11-79	2	NOS	48544	97088
ITEM NO 314 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 1 phase, 230V, 50Hz, A.C supply complete CSR 3-11-60	10	NOS	5268	52680
ITEM NO 315 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 CSR 3-11-61	10	NOS	15884	158840
ITEM NO 316 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 CSR 2-9-17	1	NOS	5352	5352
ITEM NO 317 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	1	NOS	4932	4932
ITEM NO 318 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 cable) CSR 1-3-13	350	RMT	50	17500
ITEM NO 319 Supplying ande recting HMSPV Cconduit 20mmdia with PVC accessories on wall / ceiling as per specification no WG MA/CON CSR 1-2-3	300	RMT	84	25200
ITEM NO 320 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/ pipe as per specification no CB-LT/CU/CSR 7-2-32	80	RMT	398	31840
ITEM NO 321 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/ pipe as per specification no CB-LT/CU CSR 7-2-33	174	RMT	605	105270
ITEM NO 322 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 CSR 7-2-34	54	RMT	867	46818
ITEM NO 323 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from16SWG GI sheet of 300mm width & 75mm height complete with necessary coupler plates & hardware CSR 7-11-8	190	RMT	846	160740
ITEM NO 324 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from16SWG GI sheet of 150mm width & 75mm height complete with necessary coupler plates & hardware CSR 7-11-6	200	RMT	590	118000
ITEM NO 325 Supplying 6A 3 pin plug top bakelite type of 230V A.C supply CSR 1-5-14	75	NOS	53	3975
ITEM NO 326 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 1 phase, 230V, 50Hz, A.C supply complete CSR 3-11-60	4	NOS	5268	21072
ITEM NO 327 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 CSR 3-11-61	6	NOS	15884	95304
ITEM NO 328 Supplying and erecting SS enclosure of 1.6mm thick with detachable gland plate suitable for upto 100A MCCB CSR 5-11-17	16	NOS	988	15808
ITEM NO 329 Supplying, erecting & commissioning 4 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-5	9	NOS	2756	24804
ITEM NO 330 Supplying, erecting & commissioning 4 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB CSR 5-6-4	7	NOS	2722	19054
ITEM NO 331 Supplying, erecting & commissioning 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-6	7	NOS	3092	21644
ITEM NO 332 Supplying & erecting single compression type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm cable as per specification No CB-GI/CSR 7-7-1	76	NOS	73	5548

ITEM NO 333 Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm cable as per specification No. CB-GL CSR 7-7-2	18	NOS	**93**	**1674**
ITEM NO 334 Supplying & erecting single compression type brass cable glands for 3 to 4 core 16 sq mm /3 to 4 core 25 sq mm /3 core 35 sq mm cable as per specification No. CB-GL CSR 7-7-3	10	NOS	**185**	**1850**
ITEM NO 335 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, working on 1 phase, 230V, 50Hz, A.C. supply. CSR 3-11-76	12	NOS	**22785**	**273420**
ITEM NO 336 Supply, installation, testing and commissioning air curtain of 4feet width having air throw velocity of 21m/sec, low noise level up to 38 to 46dBA suitable for door height upto 9feet, working on 1 phase, 230V, 50Hz, A.C. supply. CSR 3-11-75	10	NOS	**19616**	**196160**
ITEM NO 337 Providing & erecting 4 Pole MCCB of 200A,415V capacity with short circuit rating 25 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR 5-5-2	1	NOS	**10832.4**	**10832.4**
ITEM NO 338 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 alarm contact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-1	4	NOS	**6969.6**	**27878.4**
ITEM NO 339 Supplying & erecting ON LOAD change over switch 4 Pole, 415V, 160A, open execution having staggered termination, phase barrier, shroud termination and terminal cover along with auxiliary contacts and ready to upgrade with fuse protection kit, operational current category AC23A complying to IS/IEC 60947-3 Part-1/3 as per specification no. SW-SWR/COS CSR 5-1-5	1	NOS	**8729**	**8729**
ITEM NO 340 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 3 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-LT/CU CSR 7-2-16	20	RMT	**318**	**6360**
ITEM NO 341 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 3 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 CSR 7-2-17	20	RMT	**478**	**9560**
ITEM NO 342 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 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/ALCSR 7-1-18	10	RMT	**499**	**4990**
ITEM NO 343 Preparing Lawn (30 cm. depth) - Excavating the ground to a required depth of 30cms, removing & conveying unwanted stuff to a required distance as directed. Filling fresh garden soil/silt & manure in excavated area in 3:1 proportion to a height of 30cms. Mixing garden soil and manure thoroughly well, leveling, and watering on previous night. Planting required variety of lawn grass as directed and maintaining till well established by watering, weeding, elinning rolling etc complete PARK AND GARDEN DSR	2614.45	SMT	**692**	**1809199.4**
ITEM TO 344 Preparingflower Bed -Excavating the ground to the required depth of 30cms, Removing and conveying unwanted stuff to a required distance as directed. Filling fresh garden soil & manure in excavated area in 3:1 proportion to a required height of 30cms Mixing garden soil and manure thoroughly well, leveling, watering, on previous night. Planting seedlings of required annuals 25cms apart Maintaining till well established by watering, weeding, Stirring replacing of casualties etc, Complete. PARK AND GARDEN DSR	1052.758	SMT	**683**	**719033.714**
ITEM NO 345 GARDEN SOIL Supplying on site garden soil well sieved 90% to pass through IS sieve of 10 mm size free from stones rubbish like dried grass roots and other such materials. The soil should be fresh from quarry. The color of the soil generally is red. The soil will be measured by measuring box. (Farma) Item includes royalty charges, octroi, corporation Tax Transporting loading -unloading etc (Lead charges per 90 km considered) PARK AND GARDEN DSR	942.62	CMT	**840**	**791800.8**
Plant should be healthy ,well rooted ,diseased free and free from any pest attack with sufficient moisture around root zone in pollybag. (Wherever applicable)				**0**
ITEM NO 346 Sapling of small & medium Ornamental flowering plants, Ornamental ficus, Mussanda etc. Thuja, Cupresus, Common Ornamental Shrubs for Shrubbery PARK AND GARDEN DSR	150	NOS	**50**	**7500**
ITEM NO 347 Palm Varities (Red Palm, Fox Tail Palm, Bottle Palm, Rhaphis Palm, Table Palm, Cristal Palm etc.) 6-8Ft PARK AND GARDEN DSR	90	NOS	**1300**	**117000**
ITEM NO 348 Plants required for Landscaping (Euphorbia, Hemelia, Malpbegra, Mussanda, Ticoma, Song of India, Golden Bamboo, Buddhas Bamboo, Golden Ficus, Phonicus Palm X'mas Tree, Ficus Panda etc.) 4-5 ft PARK AND GARDEN DSR	150.00	NOS	**275**	**41250**

ITEM NO 349 Preparing Shrubbery - Excavating the ground to required depth of 30cms, removing and conveying unwanted stuff to a required distance as directed. Filling fresh garden soil & Manure in excavated area in 3:1 proporation to a height of 30cms. Mixing garden soil & manure thoroughly well, leveling, and watering on previous night, planting well developed shrubs plant 0.5 Mtrs. apart as directed and maintaining till well established by watering, weeding, stirring, replacing casualties etc. complete.PARK AND GARDENDSR	420.00	SMT	652	273840
ITEM NO 350 Common Ornamental Shrubs for Shrubbery (1ft grown in poly bag PARK AND GARDEN DSR	350.00	NOS	15	5250
ITEM NO 351 Codieum variegatum Hybrid croton 6 " to 9 " height excluding pollybag MCGM R3-GW-5-37	90.00	NOS	46	4140
ITRM NO 352 Samanea saman Rain tree 4' to 5 ' height excluding pollybag MCGM R3-GW-5-295	90	NOS	81	7290
ITEM NO 353 Rohco discolor Rhoeo Nana 4" to 6" height excluding pollybag MCGM R3-GW-5-145	45	NOS	12	540
ITEM NO 354 Rohco discolor Rhoeo Tall 4" to 6" height excluding pollybag MCGM R3-GW-5-146	120	NOS	23	2760
ITEM NO 355 Delonix regia Gulmohar 4' to 5 ' height excluding pollybag MCGM R3-GW-5-261	50	NOS	81	4050
ITEM NO 356 Verbena 6 " to 9 " height excluding pollybag MCGM R3-GW-5-158	120	NOS	17	2040
ITEM NO 357 Chlorophytum laxum Dwarf Chlorophytum 6 " to 9 " height excluding pollybag MCGM R3-GW-5-40	120	NOS	23	2760
ITEM NO 358 Chlorophytum comosum Spider Plant 6 " to 9 " height excluding pollybag MCGM R3-GW-5-39	120	NOS	23	2760
ITEM NO 359 Mangifera indica Mango 4' to 5 ' height excluding pollybag MCGM R3-GW-5-284	50	NOS	144	7200
ITEM NO 360 P V C pipe 15mm dia 10kg/cm2 pressure(class IV) SSR 178/535	200	RMT	33.6	6720
ITEM NO 361 P V C pipe 20mm dia 10kg/cm2 pressure(class IV) SSR 179/535	150	RMT	63	9450
ITEM NO 362 P V C pipe 25 mm dia 10kg/cm2 pressure(class IV) SSR 180/535	300	RMT	84	25200
ITEM NO 363 Providing and fixing on walls/ ceiling/ floor 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete SSR 42.55	250	RMT	279.3	69825
ITEM NO 364 Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. SSR 42.56	250	RMT	325.5	81375
ITEM NO 365 Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc complete SSR 42.57	210	RMT	393.75	82687.5
ITEM NO 366 Providing and fixing 50mm diameter water meter with non-return valve including strainer sockets/ union nut and including water meter box making locking arrangements and lock [Without chamber] SSR 41.30	2	NOS	16328.55	32657.1
ITEM NO 367 Supplying and erecting GI pipe 15 mm dia 'B' class at position with accessories complete as per specification no. CW-PLB/GP CSR 16-5-1	45	RMT	187	8415
ITEM NO 368 Supplying and erecting ISI mark GI pipe 20 mm dia 'B' class at position with accessories complete as per specification no. CW-PLB/GP. CSR 16-5-2	65	RMT	235	15275
ITEM NO 369 Supplying and erecting ISI mark GI pipe 25 mm dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-3	55	RMT	327	17985
ITEM NO 370 Supplying and erecting ISI mark GI pipe 32 mm dia 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-4	50	RMT	381	19050
ITEM NO 371 Supplying and erecting ISI mark GI pipe 40 mm dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-5	25	RMT	433	10825
ITEM NO 372 Supplying and erecting 25 mm dia. gun metal sluice valve at position with necessary materials complete. CSR 16-6-13	2	NOS	903	1806
ITEM NO 373 Supplying and erecting 40 mm dia. gun metal sluice valve at position with necessary materials complete. CSR 16-6-14	3	NOS	1737	5211
ITEM NO 374 Ball valves for 50mm dia. SSR 294/538	8	NOS	1676.85	13414.8

ITEM NO 375 Supplying and erecting 20/25mm 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	6	NOS	884	5304
ITEM NO 376 Control valve made of rigid pvc. compound compact double union type with nitrile rubber o ring, ptfe seat ring, solvent weld - 50 mm. MCGM GW-4-8-a	2	NOS	2563	5126
ITEM NO 377 Control valve made of rigid pvc. compound compact double union type with nitrile rubber o ring, ptfe seat ring, solvent weld - 75 mm MCGM GW-4-8-b	1	NOS	7229	7229
ITEM NO 378 Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete SSR 42.52	40	RMT	827.4	33096
ITEM NO 379 Providing and fixing 75 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. completeSSR 42.51	60	RMT	637.35	38241
ITEM NO 380 R.C.C.pipe Np2 class 150mm dia. 2m long SSR 853/541	10	RMT	363.3	3633
ITEM NO 381 Light weight impact type sprinkler with SS retraction spring , 1/2" m threaded inlet full circle with bayonet nozzle 2.5 x 1.8 mm giving distribution uniformity more than 88% at 9 x 9 m, 10 x 10 m, 9 x 12 m, 10 x 12 m or 12 x 12 m operating pressure 3 kgf IS:12232-1 MCGM GW-4-4-d	30	NOS	294	8820
ITEM NO 382 Modular sprinkler with plastic stake assembly -operating pressure 1.5 to 3 kgf, flow rate 25 to 400 lph with nozzle for minimum 90% distribution uniformity at specified spacing MCGM GW-4-4-b	5	NOS	73	365
ITEM NO. 383 Sand Filter 800 Filter, Manufactured by simultaneously injecting fiber and resin. Fitted with PVC collectors, diffuser, pressure gauge, manual air bleed and drain valve 1.5" PVC Multiport valve and Initial Charge of Filter Media. Make: Pentair and Equivalent Approved MR	3	NOS	84835	254505
ITEM NO 384 Pump for Pool Filter Type : Basket Strainer Hose Power : 4-6 HP Make : Leo and Equivalent Approved MR	3	NOS	62126	186378
ITEM NO 385 Suction Sweeper with Maintenance Kit Vacuum Head, Floating Hose of 9 Meters Length, 2 x 2.4 M Length Telescopic Handle, Leaf Rake, 18" Wall Brush, pH and Chlorine Test Kit. Make : Emaux and Aarav Enterprises Approved MR	3	SET	30019	90057
ITEM NO 386 Drain Cover Make : Emaux Approved MR	2	NOS	2350	4700
ITEM NO 387 Suction Cover Make : Emaux Approved MR	2	NOS	2350	4700
ITEM NO 388 Vacuum Nozzle Make : Emaux Approved MR	2	NOS	1045	2090
ITEM NO 389 Floor Inlet Make : Emaux Approved MR	6	NOS	914	5484
ITEM NO 390 Panel Board For LED Lights(Warm Colour) Made from Mild Steel Sheets to house Drivers with controls Make : Aarav Enterprises Approved MR	16	NOS	9398	150368
ITEM NO 391 Supplying and erecting integrated LED Bollard Cylindrical / Cubical shaped 500mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with minimum 2 Year warranty as per specification No FG-ODF/BL.CSR 2-3-19	90	NOS	6115	550350
ITEM NO 392 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: Aluminum, IP65, Durable and Vandal resistant Approved MR	20	NOS	4500	90000
ITEM NO 393 Fountain (SP-ME-TS-75) MCGM GW-4-5				0
Foam Bubble/ Geyser jet fitted on universal ball joint MCGM GW-4-5-b	6	NOS	5914	35484
SS 304 Framed mesh cover MCGM GW-4-5-b	3	NOS	16936	50808
Monobloc Submersible Pump MCGM GW-4-5-c	1	NOS	66128	66128
IP 68 TYPE Plrogramable submersible Lights MCGM GW-4-5-d	8	NOS	30579	244632
Fabricated MS powder coated control panel MCGM GW-4-5-e	1	NOS	25404	25404
Necessary G I / PVC plumbing pipes, fittings , valves MCGM GW-4-5-f	2	SET	50809	101618
Necessary electrical cabling MCGM GW-4-5-g	2	JOB	42340	84680
Spot Light MCGM GW-4-5-h	10	NOS	1882	18820

ITEM NO 394 Installation Programing Caliberation with excecution Digital Analogue Semi Mixing Console Sound Craft SI Impact/ 32 Input Approved MR	1	NOS	324300	324300
ITEM NO 395 Installation Programing Caliberation with excecution Instrumental Microphone Shure SM 57 Approved MR	1	NOS	10005	10005
ITEM NO 396 Installation Programing Caliberation with excecution Vocal Microphone Shure SM 58 Approved MR	1	NOS	11385	11385
ITEM NO 397 Installation Programing Caliberation with excecution Wirelsess Handhel Microphone Shure SVX24IN/PG58 Approved MR	1	NOS	25806	25806
ITEM NO 398 Installation Programing Caliberation with excecution Wirelsess Lapel Microophone Shure SVX14/CVL Approved MR	1	NOS	26910	26910
ITEM NO 399 Installation Programing Caliberation with excecution Goose Neck Microphone Shure MX 418/C Approved MR	1	NOS	27970	27970
ITEM NO 400 Installation Programing Caliberation with excecution Hi Net Microphone for Chorus PGA 81 Approved MR	1	NOS	12351	12351
ITEM NO 401 Installation Programing Caliberation with excecution Genreal Purpose Microphone Shure PGA 58 Approved MR	1	NOS	5796	5796
ITEM NO 402Installation Programing Caliberation with excecution Drumkit Microphone PGDMK -7Approved MR	1	SET	51750	51750
ITEM NO 403 Installation Programing Caliberation with excecution Satge Box Approved MR	14	NOS	10350	144900
ITEM NO 404 Installation Programing Caliberation with excecution Amphenol XLR & RCA Connector Approved MR	1	SET	34500	34500
ITEM NO 405 Installation Programing Caliberation with excecution 32 U WQ Exhaust Rack With Shelf & Power Approved MR	1	NOS	50370	50370
ITEM NO 406 Installation Programing Caliberation with excecution Snake Cables & Connector Percon Approved MR	75	RMT	1725	129375
ITEM NO 407 Installation Programing Caliberation with excecution Speaker Cable 2.5 sqmm Approved MR	150	RMT	220	33000
ITEM NO 408 Installation Programing Caliberation with excecution Speaker Cable 4.00 Sqmm Approved MR	300	RMT	390	117000
ITEM NO 409 Installation Programing Caliberation with excecution Sommer Interconneet Cables Approved MR	1	SET	41400	41400
ITEM NO 410 2000W active, portable loudspeaker system; 10-inch woofer; 1.0-inch compression driver; 90 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. Approved MR	4	NOS	134620	538480
ITEM NO 411 18" ported, 1500W subwoofer with integrated casters Approved MR	2	NOS	269985	539970
ITEM NO 412 2000W active portable loudspeaker system; 12-inch woofer; 1.0-inch compression driver; 75 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. INCLUDES 1x EU CABLE IN CARTON Approved MR	4	NOS	136300	545200
ITEM NO 413 2000W active, portable loudspeaker system; 12-inch woofer; 1.0-inch compression driver; 105 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. INCLUDES 1x EU CABLE IN CARTON Approved MR	2	NOS	150282	300564
ITEM NO 414 Unified Series Core with 24 local I/O channels, 128x128 network I/O channels, dual LAN ports, telephone POTS, 16x16 GPIO, 16 AEC channels, 1RU Approved MR	1	NOS	431595	431595
ITEM NO 415 4 channels, 2000 watts burst power/ch @ 4Ω, Q-LAN network input from Q-Sys Core Approved MR	2	PC	305100	610200
ITEM NO 416 4 channels, 1400 watts burst power/ch @ 4Ω, Q-LAN network input from Q-Sys Core Approved MR	1	PC	246980	246980
ITEM NO 417 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc complete (Lift upto 1.5 m) By Mechanical Means SSR 21.02 / 153	2185.35	CMT	217.35	474985.8225
ITEM NO 418 Excavation for foundation in earth, soils of all types, sand,gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means SSR 21.04 / 153	50	CMT	270.9	13545
ITEM NO 419TRANSPORTING OF EXCAVATED MATERIALS lead 20.00 k m SSR in StatementC 1(Page 560)	2235.35	CMT	468.37	1046970.88
ITEM NO 420 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layers including watering and compacting etc. complete SSR 21.36/157	447.07	CMT	126	56330.82

ITEM NO 421 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete. SSR 21.37 / 157	4082.55	CMT	**1212.59**	**4950459.305**
ITEM NO 422 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete. SSR 21.38 / 157	404.915	CMT	**3240.42**	**1312094.664**
ITEM NO423 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, tarpaulin etc. (Wooden centering will not be allowed), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) (PCC) SSR 24.10 / 176	296.6875	CMT	**8391.86**	**2489759.964**
ITEM NO 424 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C columns and steel stanchion etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surface 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 structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.15/178	225.2295	CMT	**9130.61**	**2056482.725**
ITEM NO 425 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for 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 structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.35/180	84.96	CMT	**16143.56**	**1371556.858**
ITEM NO 426 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 PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)SSR 25.54 /181	128.52	CMT	**14552.81**	**1870327.141**
ITEM NO 427 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 structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.74 / 183	89.735	CMT	**16300.01**	**1462681.397**
ITEM NO 428 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, hooking the bars, binding with wires or tack welding and supporting as required complete SSR 26.33 / 188	103	MT	**94188.15**	**9701379.45**
ITEM NO 429 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc Complete SSR 27.05 / 197	680.939145	CMT	**10027.16**	**6827885.757**
ITEM NO 430 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 mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc complete SSR 32.11 / 209	4142.63	SMT	**700.64**	**2902492.283**
ITEM NO 430A 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	630	SMT	**305.4**	**192402**
ITEM NO 431 Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface, including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required, in all position including preparing the surface, scaffolding etc. complete SSR 32.32/211	3372.63	SMT	**659.4**	**2223912.222**
ITEM NO 432 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	762.5	SMT	**151.2**	**115290**
ITEM NO 433 Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G) for roofing without wind tiles including fastening with galvanised iron screws and bolts, lead and bitumen washers as per drawing etc. complete.(Weight of 5.5 kg/sq.m.) SSR 38.04/233	50	SMT	**913.5**	**45675**

ITEM NO 434 Providing, fixing transporting and lifting upto 75ft of 80/114 mm corrugated Jmroc 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 EUCEB 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 FSI value should be 0 as per the UL 723 testing. The Stonewool slab shall be cut into Lamella, rotated & uniformly glued through online oscillation process using PU based glue of reputed make and ensure high adhesive uniformity & proper bonding with sheet. Panel shall be joined together using tongue & groove joinery with max tolerance of 3mm and shall be packed online before the transportation to avoid scratches. The top profiled sheet of 0.5mm TCT PPGI and bottom Micro Ribbed of 0.5mm PPGI				
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 aesthetic and support (girth up to 600 mm) Providing and fixing Gutter (girth up to 900 mm). (PVC nozzle length 300mm) (PPGI - 0.5mm thick). Fire Rated 2 Hr Approved MR	889.2	SMT	6609	5876722.8
ITEM NO 435 Providing Autoclaved Aerated Concrete Block masonary of Ecolite or equivalent make 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 be carried out conforming to IS 6441 (Part I) - 1972) SSR 27.15/198	58.512	CMT	7707	450951.984
ITEM NO 436 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt and handle and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box SSR 39.41 / 253	7.2	SMT	5777.1	41595.12
ITEM NO 437 a) Supplying and fixing in position b) Powder CoatedAluminium four track sliding windows with outer frame made from section of over all size 122 mm x 45 mm, bottom section with drain section track weighing 1.83Kilogramper metre and top and side section of size 122x 31.75 mm weighing 1.15Kilogramper running metre with shutter sections made of 18 mm x 40 mm size having average weight of 0.6Kilogramper running metre (or as required size) with change in proportionate weight, with 6 mm float glass in three equal panels and alluminium coated stainless steel mosquito net in one (2/3 of opening) panel fixed with new neoprene gasket, shutters to be provided with nylon encased stainless steel rollers, necessary locks and handles complete SSR 39.45B/255	216	SMT	6962.55	1503910.8
ITEM NO 438 Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc complete. b) With powder coating Note Whilecarrying at the rate of item of item weight at 6.90 Kilogram/Square Metre is considered SSR 39.55/257	10.8	SMT	6596.1	71237.88
ITEM NO 439 Providing and fixing in position b) Powder Coated aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete SSR 39.53B/257	108	SMT	6001.8	648194.4
ITEM NO 440 Providing and fixing of factory made uPVC casement window / Fixed Window & Casement Door (White Colour) comprising uPVC multi-chambered frame, Sash, & Mullion with wall thickness of 2.3mm (+-0.2 mm), duly reinforced with G.I. section 1.5 mm, wherever required uPVC window & door profile shall be made in India & shall conform to BS EN 12608 and other standards as mentioned below. S.No. Name of the test Test Method Specified Parameter 1 Tensile Impact Strength ISO 8256 - more than 700Kj/m2 2 Vicat Softening Temperature EN ISO – 306 Shall not be < 750C 3 Charpy Impact Strength EN ISO – 179-2 Shall not be < 20KJ/m2 4 Flexural Modulus Elasticity EN ISO – 178 Shall not be < 2200 N/mm2 5 Mean Breaking Stress for welded corner (a) For the tensile bending test EN – 514 Shall not be < 25 N/mm2 (b) For the compression bending test Shall not be < 30N/mm2 6 Heat Reversion Test IS 4985-2000 Shall not be > 2.0 % 7 Surface Spread of flame BS 476 - Part 7 Classification 1 8 Ignitability Evaluation BS 476 - Part 5 'P' Not easily ignitable 9 Tensile modulus ASTM D 638 Shall not be < 35 MPa 10 Shear Modulus ASTM D 732 Shall not be < 220 MPa 11 Tensile Strength EN ISO 527 Shall not be < 30 MPa				
All corners of frame and sash will be fusion welded. Mullion shall be welded / serewed. EPDM / TPE Gasket shall be provided in all frame, sash & mullion, wherever necessary.Thereafter, 5 mm Float Annealed glass shall be provided in the sash with the help of uPVC glazing bead and hardware, i.e., friction hinge & single point handle (in window) & 3D Hinges & Multipoint Lock (in door) shall be provided. Window / Door shall be fixed to the wall with 100mm long and 8mm dia. Fasteners and complete in all respect as per direction of Engineer-In-Charge. uPVC Window and Door Profiles are warranted for a period of ten (10) years against non-uniform discoloration, wrapping and rotting under general use. SSR 54.09/517				
Casement Window (Big Series) frame of size 67 x 62 mm & Sash / Mullion of size 67 x 78 mm.	60	SMT	11019.75	661185
Casement Door (Big Series) frame of size 67 x 62 mm & Door Sash of size 67 x 115 mm & Mullion (if required) of size 67 x 78 mm.	64.8	SMT	10060.05	651891.24
Fixed Window (Big Series) frame of size 67 x 62 mm & Mullion (if required) of size 67 x 78 mm.	24	SMT	8759.1	210218.4
ITEM NO 441 Extra For Double Glazed 8 mm thick plain / frosted / tinted glass MCGM R3-CS-AW-15-f	324	SMT	2510	813240

ITEM NO 442 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 wherever necessary, curing, etc. complete. SSR 33 68/220	178.11	SMT	**4623.29**	**823454.1819**
ITEM NO 443 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 cement mortar including neat cement float, filling joints, approved colour grout, curing and clearing etc. complete. Approved MR	1280	SMT	**4069**	**5208320**
ITEM NO 444 Providing & fixing wood finished Step seating (Pine wood or equivalent- Avg thikness 30 MM), with base of 8 mm thk Marine grade plywood, Wooden flooring to be laid as per pattern and treated properly with sanding, sealer coating, staining & 2 coats of varnish as directed as per detailed drawings. Approved MR	50	SMT	**10980**	**549000**
ITEM NO 445 Wooden floor tiles (including skirting) Providing & laying Hardwood flooring (strip format)with standard specifications, Board constructedwith 3 layers, Top layer of 3 to 6 mm thk veneer, Core material of high density fiber board, and balancing layer, Wood species of as per selection (oak, Walnutm Teak, Ash and other exotic species). The surface to be pre- finished with UV hardner acrylic hardner, free of formaldehyde and solvents. Finish of Top layer to be Matt or Satin or brushed having resistance to house hold chemicals & stains and not to change colour. RA Spec. As directed by Engineer-In-Charge	100	SMT	**6645**	**664500**
ITEM NO446 Providing and applying plaster / wall punning with plaster of paris (with plaster of paris material of Ambuja / Mor Chap or equivalent make) 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 Finishing the surface scaffolding etc complete SSR 32 30/211	254.4	SMT	**600.6**	**152792.64**
ITEM NO 447 Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. SSR 40 01 / 264	720	SMT	**2201.85**	**1585332**
ITEM NO 448 Providing and fixing Equipments for children play area, Gym area Etc as per drawings and specification by the engineer in charge Garden SSR				
Gym equipment				
Forearm twirl	6	NOS	**30791**	**184746**
SIT up board	6	NOS	**55066**	**330396**
Air walker	6	NOS	**74603**	**447618**
8 in 1 combination (chest press+standing twister+surf board+horse rider+leg press+cross trainer+push up bar+aerial stroller)	6	NOS	**479004**	**2874024**
ITEM NO 449 Removing cement tiles,or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete SSR 46 19/297	150	SMT	**47.25**	**7087.5**
ITEM NO 450 Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc. SSR 46.09/296	100	CMT	**351.75**	**35175**
ITEM NO 451 Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc. SSR 46.11/296	50	CMT	**399**	**19950**
ITEM NO 452 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.SSR 46.29/297	168	CMT	**1523.55**	**255956.4**
ITEM NO 453 Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthern bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 10.0 to 19.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary) SSR 12.24/86	2500	HRS	**234.15**	**585375**
ITEM NO 454 BAFFLE WOOD CEILING Suspended wood baffles with the help of cables upto 6mm/required MS/GI/Aluminium section from the roof having acoustic properties and Elongated various shape baffles made with High Density Board, Solid Wood Durable Coating, Corrosion Resistant, Tamper Proof with approved Finish material Completed as per specification and drawings as per Engineer in charge Approved MR	264	SMT	**15650**	**4131600**
ITEM NO 455 Providing & Fixing in position, Acoustical Panelling made from 12mm wp Ply wood & 1.5mm laminate 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 & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR 51.04/352	312.5	SMT	**5344.5**	**1670156.25**
ITEM NO 456 Providing & Fixing in position, Fabric wrapped Compressed polyester fibre nonwoven 9mm panels above the wood wool board panelling or existing sal wood frame, using adhesive, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete SSR 51.11/354	337.5	SMT	**3097.5**	**1045406.25**
ITEM NO 457 Supply of hand finish top machine cut, 3 line dressing Cobble Stone in size: 100 x 100 x 100mm in grey colour to be fixed on prepared sub-base with cement mortar 1:4 40 mm thick and cement slurry, filling of joints in C.M. 1:2 with grey cement to match the colour of cobble stone in the required pattern, design and as directed by the Engineer incharge, including cleaning, curing etc. complete as specified and as directed by the Engineer. NOTE: THIS ITEM SHOULD BE OPRATED ONLY AFTER SPECIFIC SANCTION OF DIR(E.S & P.) or Equivalent MCGM R3-RW-3-38	250	SMT	**1090**	**272500**

ITEM NO 458 Providing and laying RED & BLACK GRANITE cobble stones of 100mm x 100mm x 100mm, 3 line dressing with 12 mm top layer in size of fine cut and well dressed in Grey colour in paving on a bed of min. 40 mm thick cushioning in C.M. 1:4 including neat cement float etc. filling of joints in C.M. 1:2 with grey cement to match the colour of cobble stone in the required pattern, design and as directed by the Engineer incharge, including cleaning, curing etc. complete. MCGM R3-RW-3-37	360	SMT	3547	1276920
ITEM NO 459 Providing & fixing in the footpath Combi- Paver having average crushing strength not less than 80 N/mm² as per technical specifications and IS Code 15658:2006, shot blasted 60mm thick in approved texture and colour and combination size 100 x 200, 125 x 200, 175 x 200, 225 x 200, 275 x 200 to be fixed on average compacted thickness 25 mm well graded sand cushioning uniformly compacted with proper capacity mechanical compactor with required level, grade and camber etc. complete as specified and as directed by the Engineer NOTE: THIS ITEM SHOULD BE OPRATED ONLY AFTER SPECIFIC SANCTION OF DIR(E.S.& P.) or Equivalent Approved MR	910	SMT	1850	1683500
ITEM NO 460 Stamp Concrete of 100mm Thickness - Providing and Laying in-situ M30 Grade unreinforced plain cement stamp concrete of 100mm thickness pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand / VSI grade finely washed crushed sand) Confirming to IS 383, as per mixed in a batching and mixing plant / non tilting mixer and weigh batcher as per approved mix design, admixtures, transporting to site in nagpur city with lead upto 20KM (on Inner Ring Road from Avasti nagar to wadi), spreading, laying with approved make pover, compacted and finished in a continous operation, finishing to lines and grades Also Providing, Placing and applying stamp powder which is light fast UV resistant pigment with appropriate chemical compounds of desired colour on base concrete after excess bleed water has evaporated using dry shake method @5kg per sqm.	406	SMT	1873.29	760555.74
Including texturing, and covering with plastic sheet (min 200 micron thickness) and also applying two coats of UV-stable,30 % solidsclear sealer @ 150 to 250 gms per sqm using surface roller and protecting from fallingdust,dirt and curring by curring compound / by providing cement vata in cement Mortor 1:8 @ 0.6m x 0.6m center to center, admeasuring 80mm at bottom and 40mm at top withdepth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-incharge or Landscape architect etc. complete (prior approval of superinteding Engineer will be necessary.) SSR 54.01 / 513				
ITEM NO 461 Providing and casting in situ or precast tapering R.C.C. M-20 Semi Barrier type Kerb with gutter (as per IRC 86:1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering Incharge. Using Concrete Batching and Mixing Plant SSR 7.05/69	450	RMT	2368.01	1065604.5
ITEM NO 462 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 Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned company technologist SSR 50.79/ 346	2871.88	SMT	390.6	1121756.328
ITEM NO 463 Supply and Installation of 65" Crystal 4K UHD Smart TV Make Samsung,sony Complete Approved MR	5	NOS	156000	780000
ITEM NO 464 Supply and Installation of Computer with monitor 21" Intel i7,Ram 16 GB ,Storage Graphics 4GB capable for Running software for all software ,Storage 1 TB +256 SSD With Keyboard Mouse CompleteApproved MR	5	NOS	273000	1365000
ITEM NO 465 Supply and installation of 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 complete as per specifcation provided by engineer in charge Approved MR	4	NOS	180000	720000
ITEM NO 466 Supply and installation of 7000 Lumens Smart 4K UHD HDR Laser Projector, With 3M:1 contrast ratio, With 8.3 mega pixels utilizing 4K UHD (3840 x 2160) resolution. 7,000 ANSI Lumens Brightness. USB port, AV port, computer port with spring loaded white screen connected with necessary copper mains, required switchgears complete as per specifcation provided by engineer in charge Approved MR	3	NOS	810000	2430000
ITEM NO 467 Supplying and fixing Stone sculpture/statues of theme upto 1.8 mt ht of approved size and material complete as per specification provided by engineer incharge Approved MR	1	JOB	1625000	1625000
ITEM NO 468 Providing and Fixing Decorative / Ornamental grills as per design for compound wall Fencing including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc. complete as directed. MCGM R3-CS-SL-13	13550	KG	242	3279100

सदर कामी आपण सादर केलेली **वरील दराने** निविदा खालील अटीशर्तीवर मंजूर करण्यात येत आहे. महाराष्ट्र शासन, शासन निर्णय क्रमांक :- मनपा-2024/प्र.क्र.221/नवि-16 (ई-815728) दि.05 सप्टेंबर 2024 अन्वये सदर कामास तत्वत: मान्यता देऊन सदर कामासाठी रु.2.00 कोटी रक्कम मंजुर केल्याने रु.2.00 कोटी मर्यादेत काम करणे आवश्यक आहे. पुढील काम टप्प्याटप्प्याने निधी मंजुर झाल्यानंतर करावयाचे आहे. त्यानुसार निधी उपलब्धतेप्रमाणे टप्प्याटप्प्याने कार्यादेश देण्यात येतील. शासनाकडुन मंजूर निधी व्यतिरीक्त काम केल्यास सदर कामास व त्याचे देयक प्रदानास महानगरपालिका जबाबदार राहणार नाही.

सदर कामाची मुदत ही **30 महिने** असून **दि.** 9/ 10/ **/2025 ते दि.** 9/ 12/ **/2027** पर्यंत राहील.

अटीशर्ती :-

1. सदरचे काम आदेश प्राप्त झाल्यापासून 3 दिवसाच्या आत संबंधित कनिष्ठ अभियंता/ उपअभियंता यांच्या नियंत्रण व देखरेखेखाली सदर काम सुरु करण्यात यावे. तथा कामाचा फलक लावण्यात यावा.
2. शासनाने निश्चीत केलेल्या धोरणानुसार वस्तु सेवा कर (GST) भरणा करणे कंत्राटदारास बंधनकारक राहील.
3. सदर कामाच्या त्रयस्थ तांत्रिक लेखापरीक्षणासाठी **मे. शासकिय तंत्रनिकेतन ठाणे** यांची नेमणुक करण्यात येत असुन त्यांना कामामध्ये आवश्यक ती माहिती, कागदपत्रे देऊन कामाची गुणवत्ता राखण्यासाठी सहकार्य करावे

कार्यकारी अभियंता (साबां/वि)
मिरा-भाईदर महानगरपालिका

1. मा. कामगार आयुक्त, ठाणे.
2. मा. उपविमा संचालक, महाराष्ट्र राज्य, बांद्रे (पूर्व), मुंबई - 400 051.
3. संगणक विभाग
4. लेखा विभाग
5. कर्मचारी भविष्य निधी आयुक्त, कांदिवली (प.)
6. **मे. शासकिय तंत्रनिकेतन ठाणे**

प्रत कार्यवाहीसाठी

श्री. चेतन म्हात्रे - शाखा अभियंता

1) सदर काम हे निविदा मधील अटीशर्ती, स्पेसिफिकेशन, मापदंडानुसार, शासन, महानगरपालिकेमार्फत वेळोवेळी देण्यात आलेले आदेश व आवश्यक परवानग्या घेऊन विहीत कार्यपध्दत अवलंबुन व अभिलेखाचे जतन करून कंत्राटदाराकडून मुदतीत काम करून घेण्याची जबाबदारी व्यक्तीश: आपली राहील.
2) सदर कार्यादेशानुसार कामाबाबतची माहिती विहीत नमुन्यात भरून वेळोवेळी अद्ययावत ठेवण्यात यावी. तसेच कामाची दैनंदिन माहिती व प्रगती केल्यावर तातडीने उपलब्ध करून देण्यात यावी.
3) सदर काम सुरू करण्यापुर्वी कामाच्या ठिकाणाच्या लेव्हल व छायाचित्र घेऊन अभिलेखी जतन करण्यात यावे.
4) सदर काम त्रयस्थ लेखापरीक्षणाच्या कक्षेत असल्यास त्रयस्थ लेखापरीक्षण करून घेण्यात यावे. कामात वापरण्यात येणाऱ्या बांधकाम साहित्याची वेळोवेळी सक्षम यंत्रणेकडून समक्ष तपासणी करून अहवाल संचिकेत अद्ययावत ठेवण्यात यावे.

कार्यकारी अभियंता (साबां/वि)
मिरा-भाईदर महानगरपालिका

ठेकेदाराचे नाव व पत्ता :- मे. गजानन कंन्स्ट्रक्शन
सी-110, पुष्पा निकेतन,
मॅक्सेस मॉल जवळ,
टेंबा रोड, भाईंदर (प.)
ता.जि.ठाणे

कामाचे नाव :- **मिरा भाईंदर महानगरपालिका हद्दीतील स्व. प्रमोद महाजन कलादालनाचे उर्वरित काम करणे. (मुलभुत सोई सुविधांचा विकास)**

कामाचा दर :- **अंदाजपत्रकिय दराने**

कामाची मुदत :- 30 महिने

CHALLAN
MTR Form Number-6

GRN	MH002082673202526P	BARCODE		Date	13/05/2025-13:32:52	Form ID	

Department	Inspector General Of Registration	**Payer Details**	
Type of Payment	Non-Judicial Stamps Duty on Unstamped or Unsuff Stamped Doc SoS Mumbai	**TAX ID / TAN (If Any)**	
		PAN No.(If Applicable)	ADGPC4531K
Office Name	GENERAL STAMP OFFICE MUMBAI	**Full Name**	GAJANAN CONSTRUCTION
Location	MUMBAI		
Year	2025-2026 From 01/04/2025 To 31/03/2026	**Flat/Block No. Premises/Building**	C 110 PUSHPA NIKETAN
Account Head Details	**Amount In Rs.**	**Road/Street**	NEAR MAXUS MALL TEMBA ROAD
0030052601 Amount of Tax	600200.00	**Area/Locality Town/City/District**	BHAYANDER WEST THANE
		PIN	4 0 1 1 0 1
		Remarks (If Any)	CONSTRUCTION OF INTERIOR WORK OF PRAMOD MAHAJAN ART GALLERY IN MBMC AREA
Total	6,00,200.00	**Amount In Words**	Six Lakh Two Hundred Rupees Only

Payment Details	SBIEPAY PAYMENT GATEWAY	**FOR USE IN RECEIVING BANK**			
Cheque-DD Details		Bank CIN	Ref. No.	10000502025051303715	6414195906919
Cheque/DD No.		Bank Date	RBI Date	13/05/2025-13:36:22	Not Verified with RBI
Name of Bank		Bank-Branch		SBIEPAY PAYMENT GATEWAY	
Name of Branch		Scroll No. , Date		Not Verified with Scroll	

Department ID :
Mobile No. : 9136957811

NOTE:- This challan is valid for document to be registered in Sub Registrar office only. Not valid for unregistered document.

सदर चलन केवळ दुय्यम निबंधक कार्यालयात नोंदणी करावयाच्या दस्तासाठी लागु आहे. नोंदणी न करावयाच्या दस्तांसाठी सदर चलन लागु नाही.

MUNICIPAL CORPORATION ... ary Dept. Office ... ar (W)

भाईंदर महानगरपालिका मुख्य कार्यालय भाईंदर (प)

Print Date 13-05-2025 01:52:10

// करारनामा //

करारनामा लिहून घेणार :- कार्यकारी अभियंता (साबां/वि)
मिरा-भाईंदर महानगरपालिका

करारनामा लिहून देणार :- मे. गजानन कंन्स्ट्रक्शन
सी-110, पुष्पा निकेतन,
मॅक्सेस मॉल जवळ,
टेंबा रोड, भाईंदर (प.)
ता.जि.ठाणे

कारणे करारनामा लिहून देण्यात येतो, **मिरा भाईंदर महानगरपालिका हद्दीतील स्व. प्रमोद महाजन कलादालनाचे उर्वरित काम करणे. (मुलभुत सोई सुविधांचा विकास) (अंदाजित खर्च रु.20,03,68,741/-)**

Item Description	Qty	Unit	Gajanan Construction	
			Final Rate	Final Amount
ITEM NO 01 Providing and Fixing toilet set for differently Abled persons consist of Floor Mounted white vitreous china water Closet including 6 litre capacity white vitreous china flushing Cistern with raised soft - push button, white vitreous china wash basin of size 46 x 36 cm and one no SS 304 hinged rail 76 cms & three no SS 304 of (Grab Bar) 60 cm sall including cutting and making good the walls and floors wherever required, seat cover, cistern & wash basin fittings, nuts, bolts and gasketete complete as per the direction of Engineer-In-charge SSR NO 51.63 Spec As directed by Engineer-In-Charge	2	NOS	74319	148638
ITEM NO 02 (Staircase wall tile) Providing and laying Vitrified MATT finish having decorative type of size 1000 millimeter x 1000 millimeter of 8 to 10 millimeter thickness (on a existing flooring) with bonding chemical and confirming to IS15622-2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of bonding chemical filling joints curing and cleaning etc .complete. Spec As directed by Engineer-In-Charge. SSR 33.61	468.216	SMT	2352.14	1101309.582
ITEM NO 03 Providing laying and fixing glass mosaic tiles in the wet areas like swiming pool, toilets etc of approved make, colour, pattern, size and thickness on the surface treated with waterproffing compound including backing coat of approved latex-modified thinset, jointing, filling the joints with non shrink neat cementetious coloured grout, curing, ponding, finishing etc complete as per manufacturers specifications and as directed by Engineer-in-charge (Bisazza Mosaic tile) MCGM R3-CS-FL-17	491.39	SMT	2301	1130688.39
ITEM NO 04 Aluminium Fins - Providing and Fixing Horizontal fins with 3"x1" Aluminium Tubular Section Powder coated Horizontally with 1" facing and 3" Gap in to in in sections with 1"1" Aluminium Angle powder coated fixed at top and bottom for fixing. with Hardware , with labour inclusive Approved MR	124.35	SMT	4560	567036
ITEM NO 05 Aluminium Fins -Providing and Fixing Horizontal fins with 100 mm x 40 mmx 3 mm thick,(Triangle Concave Shape} Aluminum Angle sections powder coated of specification, distance between section will be 3 -4 inches & details as per drawing, Length and with all the accessories,hardwares, with labour all inclusive.Approved MR	80	SMT	4900	392000
ITEM NO 06 Providing and fixing Counter table L Shape (6.05m x 0.60 m +2.05 X 0.60 m) - 0 .60 m width for main counter made of 18 mm thk Marine plywood including table top, drawers, shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete loacation- audio visual operation roomSpec As directed by Engineer-In-Charge (Face Area To be Measured) Approved MR	8.5	SMT	28000	238000
ITEM NO 07 Providing and fixing Concierge table (3.30 m x 0.75 m + 3.60 m x 0.75 m) - 0 .60 m width for main counter made of 18 mm thk marine plywood including table top, with drawers, shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete loacation-atrium Approved MR Spec As directed by Engineer-In-Charge	7.2	SMT	67800	488160
ITEM NO 08 Providing and fixing Cabin table (2.1 m x 0.90 m) made of 18 mm thk Marine plywood including table top, with four drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish etc complete Approved MR Spec As directed by Engineer-In-Charge	1.0	NOS	60000	60000

ITEM NO.09 Providing and fixing Cabin table (1.5 m x .75m)made of 18 mm thk plywood including table top, Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete. Approved MR Spec. As directed by Engineer-In-Charge.	3.0	NOS	38000	114000
ITEM NO.10 Providing and fixing Librarian table (1.8m x .75m)made of 18 mm thk plywood including table top,Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete. Spec. As directed by Engineer-In-Charge. Approved MR Spec. As directed by Engineer-In-Charge.	1.0	NOS	40500	40500
ITEM NO.11 Providing and fixing Issue Counter table (3.05 m x 0.75m) - 0.60 m width for main counter made of 18 mm thk plywood including table top,Side credenza with two drawers, two shutters main support, internal supports, table top to have frosted glass partition fixed on wooden supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete.loacation- Library areaApproved MRSpec. As directed by Engineer-In-Charge.	2.3	SMT	36830	84709
ITEM NO.12 Providing and fixing Studio table (3.05 m x 0.90m)made of 18 mm thk plywood including table top, Side credenza with two drawers, two shutters main support, internal supports, all external surfaces finished with approved laminate of 1.0 mm thk & all internal supports finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete. Approved MR Spec. As directed by Engineer-In-Charge.	4.6	SMT	23950	110170
ITEM NO.13 Providing & Supplying Rack for Magazines and New Arrivals (Size-1.2 m x 2.1 m)Location - Audio library Approved MR Spec. As directed by Engineer-In-Charge.	2.0	NOS	15500	31000
ITEM NO.14 Providing & Supplying Audio Console Rack - (Size-0.60 m x 1.80 m) Approved MR Spec. As directed by Engineer-In-Charge.	4.0	NOS	23500	94000
ITEM NO.15 Providing & Supplying Slotted Angle Rack with 6-Shelf Shelving Unit Multipurpose Rack (Black) (72 X 30 X 18 Inch)(22 Gauge Shelf,16 Gauge Angles. Approved MR Spec. As directed by Engineer-In-Charge.	21.6	SMT	8500	183600
ITEM NO.16 Providing & Supplying Display Rack made with MR grade Plywood & partly glazed with 10 mm thk toughned glass, 18 mm thk plywood with all external surfaces finished with approved laminate of 1.0 mm thk & all internal surfaces finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete. Approved MR Spec. As directed by Engineer-In-Charge.	16.0	SMT	40500	648000
ITEM NO.17 Providing and fixing Storage made of 18 mm thk plywood with all external surfaces finished with approved laminate of 1.0 mm thk & all internal surfaces finished with white/offwhite laminate 0.8 mm thk. All wooden surfaces finished with melamine polish. etc complete. Approved MR Spec. As directed by Engineer-In-Charge.	86.2	SMT	18500	1594700
ITEM NO.18 Providing and fixing Free Standing Pedestal (Size:-0.60 m x .060 m x .90 m) for Exhibition area Approved MR Spec. As directed by Engineer-In-Charge.	29.0	NOS	20500	594500
ITEM NO.19 Providing and supplying Reading table- Type 01 (size- .075 M x 1.05 M) - MS frame and made of 18 mm thk plywood including table top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	5.0	NOS	25990	129950
ITEM NO.20 Providing and supplying Reading table-Type 02 ((size- 1.50 M x 1.05 M) - MS frame and made of 18 mm thk plywood including table top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings.Approved MRSpec. As directed by Engineer-In-Charge.	10.0	NOS	28500	285000
ITEM NO.21 Providing and supplying Book rack straight with white laminate finish inside and exterior designer laminate finish and as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	49.632	SMT	25500	1265616
ITEM NO.22 Providing and fixing Podium with acrylic finish Approved MR Spec. As directed by Engineer-In-Charge.	1.08	SMT	26830	28976
ITEM NO.23 Providing and supplying Cafe table (Square shape) - with laminate finish.(table size -out of 0.90 m x 0.90 m) All wooden surfaces finished with melamine polish with moulding finish.location :-Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	. 8	NOS	26500	21200
ITEM NO.24 Providing and supplying standard Bench seating (size -out of 3.00m x 0.60 m) . as shown in the drawings.location :-Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	33500	167500

ITEM NO 25 Providing and supplying standard High bench seating (size - out of 11.30 m x 0.60 m) as shown in the drawings location -Kitchen & Cafe Approved MR Spec. As directed by Engineer-In-Charge.	6.582	SMT	**16800**	**110577.6**
ITEM NO 26 Providing and supplying Center table - type 01 Table Top with Toughened Glass & Metal Legs with natural wooden polish Approved MR Spec. As directed by Engineer-In-Charge.	6	NOS	**12800**	**76800**
ITEM NO 27 Providing and supplying Center table - (Square / Round shape) - with laminate finish (table size -out of 1.20 m x 1.20 m) All wooden surfaces finished with melamine polish with moulding finish. Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	**17500**	**87500**
ITEM NO. 28 Providing and supplying Corner table Top with Toughened Glass & Metal Legs with natural wooden polish Approved MR Spec. As directed by Engineer-In-Charge.	5	NOS	**13500**	**67500**
ITEM NO 29 Providing and fixing Metal body powder coated Cupboards (Size - 0.90m X 0.50 m) with required Locking arrangements & adustable shelves. Make Godrej / Ruby Safe or equivalent Approved MR Spec. As directed by Engineer-In-Charge.	3.78	SMT	**20500**	**77490**
ITEM NO 30 Providing and fixing Luggage Racks (Size -1.2 mX .45m) made of 19mm thick ply shutters , finished with approved Veneer on all outer faces complete as per drawings and directions. Cost includes provision of approved hinges, door magnets, handles, etc. as per drawings and specifications. Approved MR Spec. As directed by Engineer-In-Charge.	1.44	SMT	**16500**	**23760**
ITEM NO 31 Providing and fixing Dressing Tables (Size -0.60 m X .45m) with 2 sets of drawer & shutter below, made of 19mm thick ply shutters , finished with approved Veneer on all outer faces complete as per drawings and directions. Cost includes provision of approved hinges, door magnets, handles, etc. as per drawings and specifications. Approved MRSpec. As directed by Engineer-In-Charge.	2.52	SMT	**18500**	**46620**
ITEM NO 32 Providing and supplying Single bed (size- 1.95 m x 0.90 m) - made of 18 mm thk plywood including top all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	4	NOS	**29500**	**118000**
ITEM NO 33 Providing and supplying Side table (size- 0.60 m x 0.45m) with two drawers all surfaces finished with approved laminate of 1.0 mm thk as shown in the drawings. In Suite rooms Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	**14500**	**29000**
ITEM NO 34 Providing and fixing Entertainment table for Suite rooms. (TV UNIT) Approved MR Spec. As directed by Engineer-In-Charge.	1.2	SMT	**16500**	**19800**
ITEM NO 35 Providing and fixing Full Height Wooden Partitions- Veneer finish made with MR grade Plywood & partly glazed with 10 mm thk toughned glass, nesesary support frames as directed. Finishing complete in all respects with melamine polish to all surafaces & beads, etc. as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	97.52	SMT	**16500**	**1609080**
ITEM NO 36 Providing and fixing Screen Partition design for audio library Approved MR Spec. As directed by Engineer-In-Charge.	19.44	SMT	**21500**	**417960**
ITEM NO 37 Providing and fixing 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. 135/- per sq.ft. Approved MR Spec. As directed by Engineer-In-Charge.	104.275	SMT	**5600**	**583940**
ITEM NO 38 Providing and fixing Acrylic Board panelling on wall Approved MR Spec. As directed by Engineer-In-Charge.	9.45	SMT	**8260**	**78057**
ITEM NO 39 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 level, etc. as per drawing. Approved MR Spec. As directed by Engineer-In-Charge.	39.285	SMT	**7800**	**306423**
ITEM NO 40 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 level, etc. as per drawing. Approved MR Spec. As directed by Engineer-In-Charge.	181.305	SMT	**9800**	**1776789**
ITEM NO 41 Providing and fixing Wall slat panelling on wall with 12mm thick commercial BWR plywood on ply support frame work with LED Finishing includes covering with wooden slat of approved on the outside of plywood. Teakwood beading at corners, skirting level and false ceiling level, etc. as per drawing. Approved MRSpec. As directed by Engineer-In-Charge.	39.12	SMT	**8395**	**328412.4**

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ITEM NO.42 Providing & Fixing in position, Acoustical Panelling made from Wood - wool board 20 mm on, 50 x 50 mm Sa l- 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 & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR - 51.02 Spec. As directed by Engineer-In-Charge.	548.228	SMT	3601.5	1974443.142
ITEM NO.43 Providing & Fixing in position, Acoustical Panelling made from Fabric wrapped Compressed polyester fibre non woven 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 chickenmesh on wall side, including cost of required Cut - Outs, decorative mouldings / finishing - items / paint & Scaffolding, as per Architectural & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR - 51.01 Spec. As directed by Engineer-In-Charge.	259.475	SMT	4819.5	1250539.763
ITEM NO.44 Providing & Fixing in position Acoustical Doors along with 150 x 150 mm teakwood frame, doors made from 50 mm Teak wood frame 600 x 600 c to c filled with 1000 Gsm synthetic wool 50 mm thick and 3 mm Tec sound from both sides, 12 mm water proof ply & veneer from both sides, including 150 mm heavy duty SS hinges (Geze / Dormaoreq.) 4 no each leaf, with Door - closer (Dorma / Gezeoreq.) including cost of required Cut -Outs, decorative mouldings / finishing - items / melamine polish & Scaffolding as per Architectural & Acoustical Design & Instructions & Complete in all as pects including all materials labour,finishing etc complete SSR NO51.05 Spec. As directed by Engineer-In-Charge.	34.56	SMT	24885	860025.6
ITEM NO.45 Providing & Arrangemnt of High Back, Synchronized Mechanism with Multiple Locking, Adjustable Armrest, Gaslift for Seat height adjustment, Standard 5-prong P/ Nylon Base with Leatherite Upholstery SSR NO51.40 Spec. As directed by Engineer-In-Charge.	2	NOS	18239.55	36479.1
ITEM NO.46 Providing & Arrangemnt of Mid Back, Normal Syncro Mechanism, Fixed Armrest, Gaslift for Seat height adjustment, Standard 5-prong/Nylon Base with Leather Upholstery SSR NO51.42 Spec. As directed by Engineer-In-Charge.	10	NOS	10041.15	100411.5
ITEM NO.47 Providing & Arrangemnt of Mid Back, ECOCTS Mechanism, Fixed Armrest, Gaslift for Seat height adjustment, Standard 5-prong P/Nylon Base with Fabric Upholstery SSR NO51.43 Spec. As directed by Engineer-In-Charge.	10	NOS	6846	68460
ITEM NO.48 Providing and supplying Café Chairs Approved MR Spec. As directed by Engineer-In-Charge.	28	NOS	5500	154000
ITEM NO.49 Providing and supplying Standard High Cafe Stools as shown in the drawings location - LibraryApproved MR Spec. As directed by Engineer-In-Charge.	14	NOS	12380	173320
ITEM NO.50 Providing and supplying standard Reading chairs. as shown in the drawings. Approved MR Spec. As directed by Engineer-In-Charge.	42	NOS	4500	189000
ITEM NO.51 Providing and supplying standard Audio/ Reading wooden chairs. as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge.	8	NOS	16500	132000
ITEM NO.52 Providing and supplying standard Audio Console Stools. as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge.	6	NOS	9910	59460
ITEM NO.53 Providing and supplying standard Studio chairs. as shown in the drawings location - Library Approved MR Spec. As directed by Engineer-In-Charge.	32	NOS	6300	201600
ITEM NO.54 Providing & fixing in position, heavy duty fully upholstered Auditorium chairs 520 mm c to c tip-up type. Height of back should be less than 1030 mm with plastic protective cover on back and bottom having teak wood handles. Back to back distance is 1000mm. The auditorium chairs should be of following specifications 1. Powder Coated Heavy duty MS Stand. 2. Individually moulded , ergonomically designed seat and back cushions. 3.Moulded Polyurethane Foam cushion. PU foam density 48 – 52 Kilograms/cu.mtr 4. Moulded Polyurethane Foam manufactured in certified ISO 9001 facility to ensure consistency in density for longevity .5.Upholstered in Foam laminated stretch sandwich Fabric for clean finish and soft comfortable feel as per the colour & pattern selected by the client. 6.Seat and Back should have moulded synthetic protective cover. 7. Wooden or PU armrest 65mm x 20mm - 330mm long . 8.Mounted using Anchor fasteners. As directed by Engineer-in-charge SSR 51.18/354	85	NOS	6300	535500
ITEM NO.55 Providing and fixing Sofa-3 seater with upholstry (office) Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	62500	125000
ITEM NO.56 Providing and fixing Sofa-2 seater with upholstry . Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	32500	65000
ITEM NO.57 Providing and fixing Sofa-1 seater with upholstry Approved MR Spec. As directed by Engineer-In-Charge.	2	NOS	18500	37000

ITEM NO 58 Providing and fixing 20 mm thick Laminated sheet board pelmet box 150 to 200 mm wide to doors or window frames including 20 mm dia. Aluminium curtain rod with sockets and finishing with french polishing (without top) etc complete Spec. As directed by Engineer-In-Charge SSR NO37 15	29.16	SMT	**3331.65**	**97150.914**
ITEM NO 59 Providing and Fixing Rollar Blinds AMI Make or approved make & shade of 38 mm round Aluminium channel with Black out fabric & telting with chain (Ball) system with all necessary fixtures and fitting etc complete. (Sample to be final by Engineer In-charge prior execution of work) SSR NO 51.19Spec. As directed by Engineer-In-Charge.	584.7985	SMT	**2259.6**	**1321410.691**
ITEM NO 60 Providing & Fixing of Signage using 304 Stainless steel letters for the front & side fascia and 5mm thick acrylic molded letters, for back fascia moulded letters with height 24 inches, with necessary power supplies for connection, including profile LED back lighting Approved MR Spec. As directed by Engineer-In-Charge.	52	NOS	**2950**	**153400**
ITEM NO 61 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 etc complete SSR 51.13/354	337.2595	SMT	**1522.5**	**513477.5888**
ITEM NO 62 Providing & Fixing Rod (2meter length) & Accessories for Carpet on Steps including brass finish etc as per architect's instructions Approved MR Spec. As directed by Engineer-In-Charge.	28	NOS	**1200**	**33600**
ITEM NO 63 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 concretes lab. The gypsum board should be fixed to galvanized iron grid with necessary screws. The boards should be taped and filled from under side to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels. Additional intermediate channels should be fixed to straphangers for additional support to prevent strapping at every 1200 milimetre item to be completed in all respect including necessary sleeves for ducts finishing of joints cut outs, painting including labour, material, lifts etc. all complete. SSR :- 38.51 Spec. As directed by Engineer-In-Charge.	1584.89026	SMT	**1857.45**	**2943854.413**
ITEM NO 64 Providing and Fixing Soft Fibre Acoustical Suspended Ceiling System with Optra (Bevelled Tegular) Edge Tiles of size 15 mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95% , NRC 0.9 - 1.0 , Light Reflectance? 85%, Colour White, Fire Performance UK Class 0 / Class 1 (BS476 pt - 6 & 7) in module size of 600 x 600 x 15 mm, suitable for Green Building application, with Recycled content of 66 % G Wand 74 % RW. The tile shall be laid on precoated G I channel 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm and 600 mm Cross Tees with aweb height of 32 mm and aload carrying capacity of 7 Kilograms / M2 with aminimum pull out strength of 100 Kilograms. The T Section shave a Galvanizing of 90 grams per M2 and need to be installed with Suspension system The Tile and Grid system used together should carry a 10 year warranty. products approved as per GRIHA and BS 476 etc. complete. SSR - 38.47 Spec. As directed by Engineer-In-Charge.	879.18	SMT	**3022.95**	**2657717.181**
ITEM NO 65 Providing and fixing Wooden batten ceiling with Veneer finish As per Spec. As directed by Engineer-In-Charge. Approved MR	509.63	SMT	**9500**	**4841485**
ITEM NO 66 Providing and fixing Designer Fabric ceiling with finish Approved MR Spec. As directed by Engineer-In-Charge.	398.88	SMT	**15400**	**6142752**
ITEM NO 67 (MS Fabrication work) 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 and over it two coats of oil painting of approved quality and shade etc. complete SSR NO23.01/129	21.7050176	MT	**106936.2**	**2321052.103**
ITEM NO 67A 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 of anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete SSR 23.04 /173	36	MT	**125431.95**	**4515550.2**
ITEM NO 68 Providing & Fixing bird wired mesh/wired fabric (12.5mm x 24 SWG) in strips of 200 mm width or as required over junctions of concrete & brick / block masonry or any other specified location at all heights including minimum 200mm overlap at all joints & junction prior to plastering, drilling, nailing etc. complete as directed By Engineer-In-Charge Ref. No. SS-CS-PL-34 Spec. As directed by Engineer-In-Charge.	111.9	SMT	**263**	**29429.7**
ITEM NO 69 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 wall primer with brush by adding miner al turpentine oil by 8 to 10 % or water by 15 to 20 % allowing todry for 6 to 8 hours After applying acrylic wall putty with appropriate prpportion 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	7028.46126	SMT	**288.75**	**2029468.189**

paints Royale luxury emulsion 2 nd coat with brush with water content 40 to 45% or 65 to 70 % by roller. (With prior approval of S.E.) SSR NO36.21 Spec. As directed by Engineer-In-Charge.				
ITEM NO.70 Providing and applying Wallpaper premium Qulaity Approved MR Spec. As directed by Engineer-In-Charge.	88.85	SMT	1650	146602.5
ITEM NO.71 Supply and installation of cubicles of width and depth as per Athena Lite-SS Series Cubicles -Std Sizes (W x D x H) - 900 mm x 1550 mm x 2105 mm. (Height is including 100 mm gap from bottom, Door Width - 600 mm specifications/site drawings) Cubicle height to be 2105 mm. Made from solid grade compact high pressure laminate as per IS - 2046 and EN - 438 manufactured under high specific pressure > 5 MP a and temperature > 120°C , All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges af fixed to the pilasters. Size of panels to be as per drawing. HARDWARE & ACCESSORIES are H shaped (Top) head frame structure made of extruded Aluminiumg rade 60 63 T5 -50 micronepoxy powder coated for surface protection, Size to be 125 x 70 x 5T. Corner joinery section, Size to be 40 x 16.5 x 1.8 T.U -Channel Wall joinery section, Size to be 22 x 16 x 1.6 T. Door stopper section, Size to be 21 x 12.5 x 1.6 T. Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated etc complete.SSR NO51 162Spec. As directed by Engineer-In-Charge.	119.544	SMT	11755.8	1405335.355
ITEM NO.72 Supplying and erecting led profile light 12 w conforming IP 65 of any colour with driver complete Spec. As directed by Engineer-In-Charge. Approved MR	15	RMT	2580	38700
ITEM NO.73 Supplying and erecting LED square / circular Max. 7W down lighter / Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 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 L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-2	90	NOS	664	59760
ITEM NO.74 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 board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-7	40	NOS	2487	99480
ITEM NO.75Supplying 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, CCTupto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of230-270V, Life class of 30,000 Hrs at L70B50 including driver with minimum 1year warranty as per specification No. FG-IDF/LED.CSR 2-1-10	250	NOS	1889	472250
ITEM NO.76 Supplying and erecting (OTSL 1251)Track LED fitting 10W/15w with high transitivity diffuser -Miky/clear PMMA lumen/W, CRI>80, CCT upto3000K/4000k/6000k, Hosing: Die cast Aluminium, IP20, Approved MR	110	NOS	950	104500
ITEM NO.77 Supplying and erecting (OTSL 1252)Track LED fitting 24W/30w/50w with high transitivity diffuser -Miky/clear PMMA lumen/W, CRI>80, CCT upto3000K/4000k/6000k, Hosing: Die cast Aluminium, IP20, Approved MR	120	NOS	1200	144000
ITEM NO.78 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, Approved MR	80	NOS	1299	103920
ITEM NO.79 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 Aluminium, IP40, Approved MR	80	NOS	1416	113280
ITEM NO.80 Supplying and erecting Magnetic Surface Track Channels (size 32mm x 50mm)with available material in Aluminium,Black color,Magnetic Design Approved MR	80	NOS	7999	639920
ITEM NO.81 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 Approved MR	90	NOS	2150	193500
ITEM NO.82 Supplying and erecting (OUL 354)Underwater light fitting 8w/12w/16w with diffuser -clear/frosted toughened glass , CCT upto3000K/4000k/6000k, Hosing: gun metal/stainless steel, IP68, durable and vandal resistant Approved MR	40	NOS	12283	491320
ITEM NO. 83 Providing and fixing Aluminium open cell(100mmx100mm) ceiling 0.45/0.50 mm Galvanized steel and 0.5/0.65mm Aluminium TCT ,Various Gap 50mm to 100mm made of 0.5mm/0.6mm thick black coil coated galvanised steel /powder coated 20mm Wide,40mm deep, 55 microns thick powder coating on exposed surface , 25 microns polyster coil coated over primer on visible surface with primer coat on rear	610	SMT	3050	1860500

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side. Suspension with 4mm dia Galvanized rod ,Height Adjustment Spring STeel big Clip,panel Coupler,GS wall angle. complete as per specification and drawing provided by the Engineer Incharge Approved MR				
ITEM NO. 84 Providing and fixing Hands Free Aluminum Foot Door Opener as per drawings and specification provided by the engineer in charge including all fitting complete with Coating complete as per specification and drawing provided by the Engineer InchargeApproved MR	15	NOS	**400**	**6000**
ITEM NO.85 Providing and fixing solid core flush door shutter in single leaf 32 mm thick decorative type of exterior grade approved face Laminate 1 mm thick on both faces with ghana teak wood frame of size (125mm x 75mm) with malemaine poshlish . Aluminium Louverd of size (0.6 M X 0.3 M) fixed at bottom for ventilation purpose all included necessary beads, mouldings lipping patti , iron hold fast, SS Hinges , fixer fastening with Cylinder Half lock with handle, SS handles on inside side (vertical - length 300 mm) and Aluminum Extruded Door Closer fittings etc completed As per detailed design and drawings and with all fittings etc completed.) complete as per specification and drawing provided by the Engineer Incharge Approved MR	21.6	SMT	**8000**	**172800**
ITEM NO. 86 Supply and Installation of GI DOOR FOR DUCT (0.6 X 1.8MT) AND GLASS (0.3 X 1.00MT) with all the necessary hardware complete as per specification and drawing provided by the Engineer Incharge Approved MR	4	NOS	**7425**	**29700**
ITEM NO.87 Providing High Density plastic chair(Nilkamal) Smooth and Satin finish with armrest with steel legs size 585mmx550mmx775 mm weight Capacity 125kg ,complete with approved colour ETC(Novella 10) Approved MR	4	NOS	**2741**	**10964**
ITEM NO.88 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, chromium plated handles on both sides, and finishing with French Polish etc complete SSR 39.09 / 246	25.4	SMT	**3232.95**	**82116.93**
ITEM NO.89 Providing and fixing Speed Breakers of Size 350 W x 500 L x 50 H mm yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC. MCGM R3-CS-RM-132	50	RMT	**2765**	**138250**
ITEM NO. 90 Providing and Laying hot applied thermoplastic road marking strip on Bituminous Surface of specified shade/ colour of 2.5 mm thick including 1.5 Refractive index reflectorizing glass beads @ 250gm/sqm .Thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35:2015. Initial Dry reflectivity RL shall be > 250 mcd/sqm/lux measured in the initial 7 days and sustained reflectivity RL of 100 mcd/sqm/ lux and Qd of 100 mcd/sqm/ lux measured at the end of 2 years by means of a Standard Reflectometer of Zehntner, Easylux, Delta make capable of measuring RL & QD both according to IRC 35:2015 clause 15.5. The finished surface to be level, uniform, and free from streaks and holes complete as per direction of Engineer-in-charge and in accordance with applicable specifications (Refer MORTH Clause 803 for technical Specification and Performance for IRC 35:2015). SSR 6.12a	100	SMT	**699.3**	**69930**
ITEM NO. 91 Providing and fixing ISI marked double swing flush door shutters conforming to IS :2202 (Part I) Non-decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 30 mm thick including ISI marked Stainless Steel L- hinges with necessary screws Fittings & Fixtures per leafSS kick plates on both sides of the door of 300mm height Heavy Duty satin finish butt SS Hinges (100mm x 75mm x 3mm in size) -4 nos. SS finished lever handle with mortise lock- 1 One NumberFloor spring- 1 One Number 100mm x 100mm safety glass at the specified location SSR 51.64	3.6	SMT	**13125**	**47250**
ITEM NO. 92 Grab bars-Providing SS grab bars set for accessible toilets comprising of 4 nos. Grab bars as specified below (1 nos. wing grab bar + 1 nos. L shaped grab bar + 2 nos. straight grab bars = 1 typical set) 27a) Swing grab bar (1 NOS) Providing a S.S. 304 [illegible] HANDICAP GRAB BAR - 700 mm and of DIA. 32MM and thickness [illegible] the roved brand and make. 27b) L Shaped grab bar (1 NOS) Providing S.S. 30[illegible] PED DISABLED GRAB BAR of IZE-600MM (H) X 600MM (D) and [illegible] and thickness mm of the approved brand and make. 27c) Straight grab bar (2 NOS) Providing S.STEEL 304 GRAB RAIL (600 MM),32MM DIA. and thi[illegible]5mm of the approved brand and make. SSR 1.69	1	NOS	**20475**	**20475**
ITEM NO.93 Fire Door 45mm 1HR FRL (60/60) 3 Criteria - INTEGRITY / INSULATION/ STABILITY WOODEN DOOR - Fire Door Tested in accordance to IS: 3614 Part 2. SSR 50.81/347				
Providing 60 min Fire rated doors system duly tested for 3 criteria - Integrity, Insulation and Stability Criteria as per the IS: 3614 Part 2 and BS: 476 part 22 at National Test House, Govt of India laborator and/or with Central Building Research Institute, Govt of India undertaking with standard heating conditions as specified in IS 3614 Part II 1992 and BS: 476 part 20 & 22 1987 to achieve the required integrity, insulation and stability (i.e. to restrict the heat radiation, temperature rise on the non fire face to the maximum of 140° C above the ambient temperature on the exposed surface of the shutter. The fire doors are tested with NCBN technology ("Non Combustible by Nature"). with prior approval of concerned Superitending Engineer.				
ITEM NO.94 Fire Rated Frame: Supplying frames for Fire resistant door shutters 1st class Malaysian [illegible] Frame densified (810 Kilogram/cum) and pressure treated with fire retardant chemicals in vacuum impregnation vessel under 160 psi pressure as per IS 401 and kiln seasoned to moisture below 15% as per IS 1141 of section 120 X 60 mm spray quoted with 2 coats of intumescent paint of minimum 200 micron, with single row of Brush- Type ASTROFLAME intumescent strip of size 10mm x 4mm affixed in the slit of the Frame for fire and smoke sealing, etc. complete	12	RMT	**1647.45**	**19769.4**
ITEM NO.95b) Shutter : Providing of 65mm thick asbestos free composite - 3 criteria - fire, heat and smoke check Accoustic Door Shutter with flame guard of 120 minutes IS3614 part -II comprising of 2x9mm Calcium Silicate boards, Chemical treated internal timber with Fire retardant chemicals in pressure impregnation vessels under 160 PSI pressure as	5.76	SMT	**9464.7**	**54516.672**

per IS 401and kiln seasoned to moisture below 15% as per IS 1141 frame work of 100x32 mm with 32mm thick infill of ceramic fiber (density 128Kilograms/CMT), vermaculite mix faced with 6mm Fire retardant High Density ply, internally lipped with hardwood beading, and pasted in Hydraulic Press under 50 tonnes pressure, spray quoted with 2 coats of In tumescent paint of minimum 200 micron, and with 1 row of Brush- Type Astroflame® intumescent strip (imported) of size 10mmx4mm concealed for fire and smoke sealing in the grooves in the shutter on all edges except bottom, without anyexternal lipping				
ITEM NO.96 c) Vision Panel 1 HR rated E Class clear high stress fire rated glass is pre fabricated strategically inside theshutter structure with 10 mm inside the shutter on all sides with U- glazing. An additional insulated powdercoated 'Z' channel of 16 swg MS sheet to be fixed for reinforcement of the joints. With clear fire resistant glass panes 11mm thick having minimum 120 minutes fire Description	0.36	SMT	35148.75	12653.55
ITEM NO. 97 Providing and installing Nylon net for protection from Birds entry in Entrance Lobby (Exterior Projection) MCGM R3-CS-RM-133	1200	SMT	224	268800
ITEM NO.98 Providing and Fixing Adjustable Painting stand/Holder as per specification provided by the engineer in charge. Approved MR	40	NOS	36500	1460000
ITEM NO.99 Providing and Fixing high tensile strings for hanging Paintings with frame as per specification provided by the engineer in charge. Approved MR	180	RMT	900	162000
ITEM NO.100 Supplying, erecting, testing and commissioning of float sensor switch for water level controller working on 250 V & rated current 8A, with 2 m wire & high quality of wire & plastic body. CSR 12-4-28	6	NOS	413	2478
ITEM NO.101 Supplying, erecting, testing and commissioning of directly operated single phasing preventer complete erected and connected to supply to operate in case of single phasing with guarantee for minimum one year. CSR 12-4-29	3	NOS	741	2223
ITEM NO.102 Supplying, erecting & marking FP MCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no SW-MCB CSR 5-3-13	8	NOS	1329	10632
ITEM NO.103 Providing and fixing Stainless steel sink of size 1145 x 510 x250 mm (Graceful Glory - Big) incluidng coupling, outlet pipe, elbow and other necessary fitting, finishing etc. complete Approved MR Spec: As directed by Engineer-In-Charge	1	NOS	18280	18280
ITEM NO.104 Providing and fixing push cock (Self closing tap) symet type of 20 mm dia. including necessary socket, testing etc. complete. SSR 41.55	10	NOS	489.3	4893
ITEM NO.105 Providing and fixing Autoclosing pillar cock of pressmatic tap of approved make or equivalent including all fixtures, fittings etc. complete. SSR 41.77	10	NOS	2742.6	27426
ITEM NO.106 Providing & erecting 4 Pole MCCB 415V, 630A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCBCSR 5-5-7	1	NOS	33016.8	33016.8
ITEM NO.107 Providing & erecting 3 Pole MCCB 415V, 630A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB (To be set at 500A) CSR 5-5-7	1	NOS	27514	27514
ITEM NO.108 Supplying, installing, testing and commissioning air circuit breaker manual fixed type, non-drawout type, 650V, 1000A rated at 50° C without deration, 12kV Impulse, 4 Pole (100% Neutral Protection), 50 kA (Ics=Icu=Icw for 1s),with standard accessories with ready to close, individual fault trip, alarm and trip indication, mechanical and electrical anti pumping, soft/hard rating plug (including hard rating plug CT) with Microprocesser based LCD display release with LSIG and temperature rise protection & with 4 C/O contacts for On-Off-Trip indication, min. 5 event and trip history on breaker display on provided iron frame as per specification no. SW-SWR/ACB CSR 5-8-3	1	NOS	129388	129388
ITEM NO.109 Providing & erecting 4 Pole MCCB 415V, 400A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact.MCCB should have phase barriers both sides, with insulation withstand capacity 800V,no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-6	2	NOS	24250.8	48501
ITEM NO.110 Providing & erecting 4 Pole MCCB, 415V, 200A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-3	2	NOS	13310.4	26620.8
ITEM NO.111 Providing & erecting 4 Pole MCCB, 415V, 160A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and	5	NOS	10832.4	54162

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adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-2				
ITEM NO 112 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, interrupts, THD, complete with RS 485 communication protocol, class 1 accuracy and wiring connections and mounting hardware CSR 6-5-9	9	NOS	**9436**	**84924**
ITEM NO 113 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 CSR 6-7-1	10	NOS	**355**	**3550**
ITEM NO 114 Supplying, erecting & marking of surge arrestor/ surge protection device at the main distribution board after the incoming breaker of type 1+2 tested for Imax 50 kA for three phase and neutral with compliance to IEC 61643-11 as per specification no. CP-SPD CSR 6-8-3	6	NOS	**9552**	**57312**
ITEM NO 115 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 mounting hardware on provided panels complete with calibration certificate from manufacturer. CSR 6-5-13	2	NOS	**12298**	**24596**
ITEM NO 116 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 alarm contact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-1	40	NOS	**6969.6**	**278784**
ITEM NO 117 Supplying, erecting, testing & commisioning 125 kVAr, 3 phase, 50 Hz., APFC Panel with derated power contactor of suitable rating for capacitor switching Application for each step controlled by microprocessor based APFC relay consisting of 2,3,5,10,20,20,20,20,25 or suitable steps of MPP /APP type capacitor with 525 V and having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours with detuned aluminium wound reactor of 7/ 14% for each step. APFC Panel shall suitable rating MCCB as incomer and each branch/step shall have separate isolation with MCCB/MCB of Suitable rating for protection, compliance to IEC 61439 and power quality IEC 61921 standard as per specification no. CP-ED/APFC CSR 6-9-20	1	NOS	**506838**	**506838**
ITEM NO 118 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection provided on iron/GI frame as per specification no. SW-MCBDB CSR 5-4-11	8	NOS	**1605**	**12840**
ITEM NO 119 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 8 ways (8 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per specification no. SW-MCBDB CSR 5-4-10	7	NOS	**1503**	**10521**
ITEM NO 120 Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 4 ways/phase (12 poles), with door, 1.2mm thickness, surface/flush mounted, IP 43 protection on provided iron/GI frame (horizontal busbar type) as per specification no. SW-MCBDB CSR 5-4-1	2	NOS	**2391**	**4782**
ITEM NO 121Supplying & 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) as per specification no.SW-MCBDB.CSR 5-4-2	2	NOS	**3317**	**6634**
ITEM NO 122 Supplying, erecting & marking DP MCB 6 A to 32 A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-MCB CSR 5-3-7	15	NOS	**510**	**7650**
ITEM NO 123 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 CSR 5-4-15	32	NOS	**408**	**13056**
ITEM NO 124 Supplying and erecting modular type telephone socket one gang with safety shutter, provided plate and box with wiring connections complete CSR	13	NOS	**114**	**1482**
ITEM NO 125 Supplying and erecting modular type computer Jack RJ 45 with safety shutter, provided plate and box with wiring connections complete CSR 6-17	23	NOS	**152**	**3496**
ITEM NO 126 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 COLOUR EARTH WIRE) CSR 1-3-1	400	RMT	**23**	**9200**

ITEM NO.127 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 the background. CSR 1-6-37	16	NOS	298	4768
ITEM NO.128 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background. CSR 1-6-39	18	NOS	454	8172
ITEM NO.129 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 12 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background. CSR 1-6-40	16	NOS	544	8704
ITEM NO.130 Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 16/18 module duly flushed to wall with required chiselling and finishing with cement mortar / POP as per required to match the background. CSR 1-6-41	12	NOS	614	7368
ITEM NO.131 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 COLOUR EARTH WIRE) CSR 1-3-2	850	RMT	35.5	30175
ITEM NO.132 Supplying & erecting mains with 2x4 sq.mm FRLSH copper PVC insulatedwire laid in provided conduit/trunking/inside pole/bus bars or any other places as per specification no. WG-MA/BW 9CSR 1-3-3	1000	RMT	99	99000
ITEM NO.133 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 9 (green colour) CSR 1-3-3	100	RMT	99	9900
ITEM NO.134 Supplying & erecting mains with 4x4 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 selected as per IS 732:2019 CSR 1-3-3	360	RMT	247.5	89100
ITEM NO.135 Supplying & erecting HMS PVC conduit 20mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC CSR 1-1-7	2220	RMT	104	230880
ITEM NO.136 Supplying & laying HMS PVC conduit 20mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification no. WG-MA/CC CSR 1-1-8	3900	RMT	90	351000
ITEM NO.137 Supplying & erecting HMS PVC conduit 25mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC CSR 1-1-9	1575	RMT	116	182700
ITEM NO.138 Supplying & laying HMS PVC conduit 25mm dia with necessary accessories in RCC work/false ceiling/false flooring as per specification WG-MA/CC. CSR 1-1-10	670	RMT	102	68340
ITEM NO.139 Supplying & laying HMS PVC conduit 32mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification no. WG-MA/CC CSR 1-1-12	180	RMT	139	25020
ITEM NO.140 Supplying & erecting HMS PVC conduit 32mm dia. with necessary accessories in wall/floor with chiselling appropriately as per specification no. WG-MA/CC CSR 1-1-11	125	RMT	153	19125
ITEM NO.141 Supplying and erecting 25mm dia. corrugated flexible polypropylene conduit CSR 1-2-2	100	RMT	19	1900
ITEM NO.142 Supplying, erecting & terminating FR 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 in provided trench/ pipe as per specification no. CB-LT/AL (WIRE AMOURED) CSR 7-1-16	250	RMT	341.55	85387.5
ITEM NO.143 Supplying, erecting & terminating FR XLPE insulated, galvanised steelformed wire armoured (strip) cable, 1100 V 4 core 25 sq. mm. aluminiumconductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL (Proviosnal qty)CSR 7-1-30	305	RMT	265	80825
ITEM NO.144 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 95 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 (Wire Armoured) CSR 7-1-19	10	RMT	702.65	7026.5
ITEM NO.145 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 240 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 (Wire Armoured) CSR 7-1-23	100	RMT	1587	158700
ITEM NO.146 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 300 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 (Wire Armoured) CSR 7-1-24	100	RMT	1896.35	189635
ITEM NO.147 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 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 (Wire Armoured) CSR 7-1-18	100	RMT	499	49900

ITEM NO 148 Supplying & erecting single compression type brass cable glands for 4 core 35 Sq mm /3 core 50 Sq mm cable as per specification no. CB-GL CSR 7-7-4	2	NOS	**208**	**416**
ITEM NO 149 Supplying & erecting single compression type brass cable glands for 3½ core 95 sq mm cable as per specification No. CB-GL CSR 7-7-7	4	NOS	**315**	**1260**
ITEM NO 150 Supplying & erecting Single Compression type brass cable glands for 3½core 240 sq mm cable as per specification No. CB-GL CSR 7-7-11	4	NOS	**586**	**2344**
ITEM NO 151 Supplying & erecting Single Compression type brass cable glands for 3½core 300 sq mm cable as per specification No. CB-GL CSR 7-7-12	4	NOS	**799**	**3196**
ITEM NO 152 Supplying & erecting single compression type brass cable glands for3½ core 70 sq mm cable as per specification no. CB-GL CSR 7-7-6	4	NOS	**280**	**1120**
ITEM NO 153 Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification No. CB-CL/AL (provisional qty) CSR 7-10-2	8	NOS	**12**	**96**
ITEM NO 154 Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification No. CB-CL/AL CSR 7-10-3	8	NOS	**19**	**152**
ITEM NO 155 Supplying & erecting crimping type aluminium lugs for cable 95 sq mmcomplete as per specification No. CB-CL/ALCSR 7-10-6	8	NOS	**33**	**264**
ITEM NO 156 Supplying & erecting crimping type aluminium lugs for cable 70 sq mm complete as per specification No. CB-CL/AL CSR 7-10-5	8	NOS	**31**	**248**
ITEM NO 157 Supplying & erecting crimping type aluminium lugs for cable 240 sq mm complete as per specification No. CB-CL/AL CSR 7-10-10	16	NOS	**112**	**1792**
ITEM NO 158 Supplying & erecting crimping type aluminium lugs for cable 300 sq mm complete as per specification No. CB-CL/AL CSR 7-10-11	16	NOS	**163**	**2608**
ITEM NO 159 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 quantity (min. 125kg) complete, and recording the results specification no. EA-MF CSR 9-1-5	11	NOS	**12357**	**135927**
ITEM NO 160 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete CSR 7-6-12	350	RMT	**374**	**130900**
ITEM NO 161 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 complete(8 SWG) CSR 9-2-5	102	KG	**168**	**17136**
ITEM NO 162 Providing & erecting hot dipped galvanised ladder type cable tray manufactured from 16 SWG GI sheet of 300 mm width & 100 mm height with required standard accessories CSR 7-11-3	300	RMT	**859**	**257700**
ITEM NO 163 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 CSR 7-11-8	150	RMT	**846**	**126900**
ITEM NO 164 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from 16 SWG GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware CSR 7-11-7	100	RMT	**676**	**67600**
ITEM NO 165 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 CSR 7-11-6	220	RMT	**590**	**129800**
ITEM NO 166 Supplying, erecting, testing & commissioning of 20 kVA capacity on line puresine wave PWM,IGBT based UPS with 0.9 to unity output pf ,3 phase input &3 phase output complete with all protections as per specification no. APUPS(Without batteries)CSR 3-7-8	2	NOS	**290248**	**580496**
ITEM NO 167 Supplying and erecting 12 V/100Ah SMF battery with battery terminal wire, duly charged complete with 24 months warranty complete. for 30 mins battery backup CSR 3-7-9	60	NOS	**9549**	**572940**
ITEM NO 168 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-IDF/LED (Final light fittings to be as per Architects selection) CSR 2-1-12	65	NOS	**1915**	**124475**
ITEM NO 169 Supplying and erecting CRCA powder coated light LED fitting (4 feet) Max. 33W 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	10	NOS	**1409**	**14090**

4 kV, Life class of 50,000 Hrs at L70B50 , IP20 rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-19				
ITEM NO.170 Supplying and erecting anodized aluminium light LED fitting (4 feet) Max. 22W with high transitivity diffuser with system lumens output of Min 2200 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 driver with end caps on provided PVC Block/wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-18	20	NOS	802	16040
ITEM NO.171 Supplying and erecting integrated LED Bollard Cylindrical / Cubical shaped 800mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with minimum 2 Year warranty as per specification No FG-ODF/BL. (Final light fittings to be as per Architects selection) CSR 2-3-20	53	NOS	6834	362202
ITEM NO.172 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 arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED.(Final light fittings to be as per Architects selection) CSR 2-1-5	630	NOS	1544	972720
ITEM NO.173 Supplying and erecting LED square / circular Max. 14 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 mountingarrangement with board for surface type or spring loaded mounting clipscomplete with minimum 2 years warranty as per specification No. FG-IDF/LED.wattage considered 12W (Final light fittings to be as per Architects selection-OUL354)CSR 2-1-4	65	NOS	1224	79560
ITEM NO.174 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-15	46	NOS	1423	65458
Supply,Installation, testing & commissioning of following light fixtures complete with: a) All fixing accessories, mounting Brackets, anchor fasteners, suspension wires/chains etc. necessary for completeness of installation. b) Drivers / Controllers with housing. c) Lamp of specified wattage. d) Earthing of fittings. e) Diffuser shall lit up uniformly without any black spot on diffuser. f) Light fixture finishes should be as specified. g) Any visible power supply cable to light fixture shall be transperent. h) All suspended fixtures shall be provided with SS caps to put around suspension at flase ceiling level Note 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant.				
ITEM NO.175 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 2.5 kV, Life class of 50,000 Hrs at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-6	880	NOS	1945	1711[illegible]
ITEM NO.176 Supplying and erecting LED Panel Light (600mm X 600mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min 4200 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 board for surface type or spring loaded mounting clips complete with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-8	5	NOS	2887	14435
ITEM NO.177 Supplying and erecting CRCA powder coated light LED fitting (4 feet) Max. 50W with high transitivity diffuser with system lumens output of Min. 6000 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, rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. (15W Track Light-OTSL1251)CSR 2-1-20	65	NOS	2278	148070
ITEM NO.178 Supplying and erecting CRCA powder coated light LED fitting 15W Track Light-OTSL1252 with high transitivity diffuser with system lumens output of Min. 6000 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, rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-20	60	NOS	2278	136680

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ITEM NO 179 Supplying and erecting CRCA powder coated mirror light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 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, IP 20 rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-17	10	NOS	**641**	**6410**
ITEM NO 180 Supplying and erecting 18W Wall light (OWL 402) 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	5	NOS	**641**	**3205**
ITEM NO 181 Supplying and erecting rectangular shaped LED Panel Light (1200mm X 300mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min. 4200 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 board for surface type or spring loaded mounting clips complete with 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-9	25	NOS	**3027**	**75675**
ITEM NO 182 Supplying and erecting CRCA powder coated mirror light LED fitting (4 feet) Max. 17W with high transitivity diffuser with system lumens output of Min. 2000 lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angleof 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, IP 20 rated including driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	40	NOS	**641**	**25640**
ITEM NO 183Supplying and erecting 15W Bulkhead light (OWL 402) 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 provided PVC Block / wooden board with minimum 2 years warranty as per specification No. FG-IDF/LED CSR 2-1-17	50	NOS	**641**	**32050**
ITEM NO 184 Supplying, installing, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 2 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 54 / VdS/FM & UL 864(10th edition) with 3 years replacement warranty and inclusive of lifetime software license validity , as per specification noFF-AFAS/CP CSR 13-10-2	1	NOS	**172095**	**172095**
ITEM NO 185 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 & FM approved with 3 years equipment replacement warranty, Designed to meet UL268, 7th Edition. FFAFAS/ SD. CSR 13-10-5	135	NOS	**2380**	**321300**
ITEM NO 186 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 - 1988 reaffirmed 2000, IS 15908:2021 / EN 54 / VdS / UL & FM approved with 3 years equipment replacement warranty, Designed to meet UL268, 7th Edition. FF-AFAS/HD - ROR. CSR 13-10-6	9	NOS	**2714**	**24426**
ITEM NO 187 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 warranty, as per specification no FFAFAS/ CRM-FCM CSR 13-10-10	16	NOS	**3779**	**60464**
ITEM NO 188 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 relays, EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, as per specification no FF-AFAS/MM CSR 13-10-11	16	NOS	**3730**	**59680**
ITEM NO 189 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 whichshall blink in normal state & get steady on activation to monitor the health status of the device. module complete as required. Module shall conforming to IS 5051 Part 2 (Sec 1 to 3) : 1982, , EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, FF-AFAS/ISMCSR 13-10-12	14	NOS	**3055**	**42770**

ITEM NO 190 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" massage embedded on the glass, complete erected with mounting base and required accessories, Module shall conform to EN 54/VdS / UL & FM approved with 3 years equipment replacement warranty, as per specification no FF-AFAS/MCP CSR 13-10-13	12	NOS	3579	42948
ITEM NO 191 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 equipment replacement warranty, as per specification no FF-AFAS/ S-ST CSR 13-10-14	8	NOS	7837	62696
ITEM NO 192 Supplying, installing, testing and commissioning of repeater panel with suitable battery backup of a minimum of 24 hours in normal condition and 30 min in alarm condition, minimum 10" LCD or LED display with resistive touch screen or function keys and automatic back-light dimming and the status of any Fire/Fault of Integrated Fire Alarm Panels or minimum 80 characters backlit alphanumeric LCD display with inbuilt buzzer to indicate fault/fire alarm, manual control keys for silence/mute and to reset the FACP from the repeater station. Panel shall conforming to IS 15908:2021, IS 2189: 2008, NFPA-72, EN 54 / VdS/FM & UL with 3 years replacement warranty FF-AFAS/RP (Compatible with 1/2 Loop Fire Alarm Control Panel), as per specification no FF AFAS/RP CSR 13-10-16	1	NOS	74506	74506
ITEM NO 193 Supplying, erecting, testing & commissioning Mixer Amplifier 500W RMS Power with Built-in Digital Player with remote and having 7 Mic & 3 Aux Inputs with Box Speaker/Driver Unit selector switch to each zone , stereo/mono switch, frequency response 50-15000Hz, output regulation <2dB, serprate control for USB level. The unit shall have Preamplifier and Line Output for connecting to a Booster Amplifier and for recording the programme with Resettable circuit breaker for protection against overload and short circuit. The unit shall have speaker output range of 2Ω, 4Ω/(Low Impedence) and 70V & 100V/(High Impedence) & It can instant transfer to DC power(36V) if AC power fails. Signal to noise ratio between 60dB to 80dB. Complete as per specification no. PA-MA CSR 19-7-12	1	NOS	27671	27671
ITEM NO 194 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 response and adjustable tweeter complete as per specification no. PA-FMCS (5W tap consideration) CSR 19-7-14	97	NOS	2334	226398
ITEM NO 195 Supplying, erecting, testing and commissioning of multistrand annealed bare copper conductor, transparent PVC insulated 2C x 1 sqmm speaker wire in provided trunking/conduit etc complete as per specification no. PA-TSPWRCSR 19-7-25	991.2	RMT	41	40639.2
ITEM NO 196 Supplying & erecting of High definition 2 Megapixel IP IR Bullet Camera with following features : 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, ONVIF profile conformant, minimum IR distance : 30m, Lens Type : 2.8/4/6 mm Lens, fixed focal, CSR 19-6-1	8	NOS	7917	63336
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, sharpness, gain, white balance Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation.				
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 compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no.CCTV-CAM.				
ITEM NO.197 Supplying & erecting of High definition 2 Megapixel IP IR Dome Camera with following features 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, ONVIF profile conformant, minimum IR distance : 30m, Lens Type : 2.8/4/6 mm Lens, fixed focal, CSR 19-6-3	58	NOS	7854	455532

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, sharpness, gain, white balance Image Enhancements : Day/Night-Auto (ICR)/Color/Black & White, 3D Digital Noise Reduction, Automatic White Balance, Automatic Gain Control, Backlight Compensation, Highlight Compensation.				
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 compliant, UL/EN OR equivalent BIS/TECH/STQC or any indian standards as applicable, CE, FCC certified. duly erected in position on wall/ceiling/false ceiling/provided pole (mounting height not more than 5 meter) etc with all accessories etc complete as per specification no. CCTV-CAM.				
ITEM NO 198 Supplying, installing, testing & commissioning of 32/40 Ch. Network Video Recorder (NVR), suitable connect Min. 32 IP Cameras, up to 5 Megapixel Resolution, with HDMI/VGA outputs, provided HDMI output of 4K resolution or VGA output with output up to 1920 × 1080. Support H.265 or higher, H.264, MJPEG, Incoming Bandwidth 250Mbps with minimum 4 SATA Hard Disks, ANR Technology, 4 SATA interfaces for 4 HDDs and capacity of each HDD up to 8TB, minimum 02 USB port, Alarm I/O 16/4, RJ-45 10/100/ 1000 Mbps selfadaptive Ethernet interface, ONVIF conformance, Multiple network monitoring: Web viewer . support protocol TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS. RoHS, UL, CE, FCC certified. duly erected in provided U Rack with wiring connections, tagging and programming etc. complete as per specification no. CCTV-NVR CSR 19-6-15	2	NOS	**45460**	**90920**
ITEM NO 199 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 CSR 19-1-23	4	NOS	**4641**	**18564**
ITEM NO 200 Supplying & erecting 8 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDD CSR 19-6-21	4	NOS	**23722**	**94888**
ITEM NO 201 Supplying & erecting 32" professional LED Monitor with 1920*1080 (Full HD) Display, suitable for 16 channel NVR and following featuresBrightness: minimum 250 Cd/m2Contrast Ratio: minimum 1000:1Viewing angle: 178/178 deg.Response time: maximum 8 msInputs: 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. complete as per specifications no. CCTV-MON CSR 19-6-23	2	NOS	**24069**	**48138**
ITEM NO 202 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. WG-NAS/PP CSR 19-[illegible]-4	4	NOS	**11017**	**44068**
ITEM NO 203 Supplying and fixing 12 ports light guide unloaded interconnect unit, rack mounted type [illegible] adapter panel for termination of optical fiber cables in provided U rack complete as per specification no. WG-NAS/ LIU CSR [illegible]	2	NOS	**5265**	**10530**
ITEM NO 204 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 necessary arrangement for fixing complete. CSR 19-5-17	6	NOS	**5270**	**31620**
ITEM NO. 205 Supplying and fixing 9U wall mount rack (Dimension-DxWxH – 500x550x480 mm) as per specification no. WG-NAS/RAK CSR 19-5-19	4	NOS	**9615**	**38460**
ITEM NO 206 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 CSR 19-3-1	3040	RMT	**57**	**173280**
ITEM NO 207 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-ELVC/PC CSR 19-3-16	50	NOS	**243**	**12150**
ITEM NO 208 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-ELVC/OFC CSR 19-3-11	50	RMT	**302**	**15100**
ITEM NO 209 Supplying and fixing SC/SC type multimode pigtails (OM3) for LIU to terminate OFC in LIU as per specification no. WG-NAS/LIU2 CSR 19-5-13	2	NOS	**815**	**1630**

ITEM NO 210 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 rating , conforming to EN 1366-4 2021 as per specification no FF-FRS CSR 13-12-1	50	NOS	1495	74750
ITEM NO 211 Providing & erecting 4 Pole MCCB, 415V, 800A, rated short-circuit breaking capacity 50 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact. MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCBCSR 5-5-8	2	NOS	55569.6	111139.2
ITEM NO 212 Providing & erecting 3 Pole MCCB 415V, 320A, rated short-circuit breaking capacity 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact MCCB should have phase barriers both sides, with insulation withstand capacity 800V,no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-5	2	NOS	23994	47988
ITEM NO 213 Supplying, erecting & marking FP MCB 40A to 63A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no SW-MCB CSR 5-3-13	2	NOS	1329	2658
ITEM NO 214 Supplying & erecting ON LOAD change over switch 4 Pole, 415V, 40A, open execution having staggered termination, phase barrier, shroud termination and terminalcover along with auxiliary contacts and ready to upgrade with fuse protection kit, operational current category AC23A complying to IS/IEC 60947-3 Part-1/3 as per specification no SW-SWR/COS CSR 5-1-2	1	NOS	3235	3235
ITEM NO 215 Supplying, erecting & marking FP MCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no SW-MCB CSR 5-3-12	100	NOS	1059	105900
ITEM NO 216 Supplying, erecting, testing & commisioning 200 kVAr, 3 phase, 50 Hz., APFC Panel with derated power contactor of suitable rating for capacitor switching Application for each step controlled by microprocessor based APFC relay consisting of 2,3,5,10,10,20,25,25,50,50 or suitable steps of MPP /APP type capacitor with 525 V and having minimum overcurrent capacity of 1.8 In, peak inrush current capacity 300 In and minimum life 150000 hours with detuned aluminium wound reactor of 7/ 14% for each step, APFC Panel shall suitable rating MCCB as incomer and each branch/step shall have separate isolation withMCCB/MCB of Suitable rating for protection, compliance to IEC 61439 and power quality IEC 61921 standard as per specification no CP-ED/APFC CSR 6-9-22	1	NOS	621368	621368
ITEM NO 217 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 2 ways (2 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per specification no. SW-MCBDB CSR 5-4-7	1	NOS	818	818
ITEM NO 218 Supplying, fixing and commissioning 2 pole RCBO up to 25A, 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 as per specification no SW-RCBO. CSR 5-6-9	14	NOS	3179	44506
ITEM NO 219 Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 4 ways/12 Poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame (vertical busbar type) as per specification no. SW-MCBDB CSR 5-4-4	1	NOS	4582	4582
ITEM NO 220 Supplying and erecting single pole and neutral distribution board (SPNDB), with 2 ways for incoming and 4 ways (4 poles) for outgoing SP MCBs, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame as per Specification no. SW-MCBDBCSR 5-4-8	1	NOS	984	984
ITEM NO 221 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 as per specification no SW-RCBO CSR 5-6-13	2	NOS	4212	8424
ITEM NO 222 Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 12 ways/36 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on provided iron/GI frame (vertical busbar type) as per specification no. SW-MCBDB CSR 5-4-6	11	NOS	7739	85129
ITEM NO 223 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 the background. CSR 1-6-37	63	NOS	298	18774
ITEM NO 224 Supplying & erecting crimping type aluminium lugs for cable 25 sq mm complete as per specification No. CB-CL/AL CSR 7-9-2	96	NOS	36	3456
ITEM NO 225 Supplying & erecting crimping type aluminium lugs for cable 35 sq mm complete as per specification No. CB-CL/AL CSR 7-9-3	8	NOS	42	336

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ITEM NO 226 Supplying, erecting, testing & commissioning of 10 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.9 to unity output pf ,3 phase input & 3 phase output complete with all protections as per specification no. AP-UPS(Without batteries) CSR 3-7-7	1	NOS	**180484**	**180484**
ITEM NO 227 Supplying and erecting anodized aluminium mirror light LED fitting (2 feet) for toilet area Indirect lighting 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 driver with end caps on provided PVC Block / wooded board with minimum 2 years warranty as per specification No. FG-IDF/LED. CSR 2-1-16	31	NOS	**455**	**14105**
ITEM NO 228 Supplying, installing, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the 4 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 54 / VdS/FM & UL 864(10th edition) with 3 years replacement warranty and inclusive of lifetime software license validity , as per specification noFF-AFAS/CP CSR 13-10-3	1	NOS	**279040**	**279040**
ITEM NO 229 Supplying & erecting 4 TB internal Surveillance HDD suitable for SATA Port of NVR, interface transfer rate 6 GB/S, Maximum sustained transfer rate 150MB/Sec to 180MB/S. Drive bay supported 08+, Cameras supported up to 64, Cache (MB) 64, Load/Unload Cycle -3000000, Work Load Rating per Year 180TB, MTBF 1000000 Hrs. HTTPS. RoHS, UL, CE certified, duly erected in position in provided NVR as per specification no. CCTV-HDDCSR 19-6-20	2	NOS	**12340**	**24680**
ITEM NO 230 Supplying & erecting HMS PVC conduit 40mm dia. with necessary accessories in wall/floor/RCC work/false ceiling/false flooring with chiselling appropriately as per specification no. WG-MA/CC Approved MR	2865	RMT	**234**	**670410**
ITEM NO 231 Supplying & laying flexible HMS PVC conduit 40mm dia. with necessary accessories. Approved MR	937.5	RMT	**90**	**84375**
ITEM NO 232 SITC of white Pop-Up box for Library area switch socket installation. The confirguration to consist of 5switch+5 socket complete in all respect, flushed with the table. Approved MR	20	NOS	**5500**	**110000**
ITEM NO 233 Supply,Installation, testing & commissioning of following light fixtures complete with a) All fixing accessories, mounting Brackets, anchor fasteners, suspension wires/chains etc. necessary for completeness of installation b) Drivers / Controllers with housing c) Lamp of specified wattage d) Earthing of fittings e) Diffuser shall lit up uniformly without any black spot on diffuser. f) Light fixture finishes should be as specified g) Any visible power supply cable to light fixture shall be transperent. h) All suspended fixtures shall be provided with SS caps to put around suspension at flase ceiling level Note: 1) In addition to above mentioned accessories details, vendor to consider specific light fixture requirement mentioned along-with light fixture. 2) Light Fixtures final confirmation to be done by Architect and Lighting Consultant. MR-				
15 W DOWN LIGHT FITTING SURFACE MOUNTED / SUSPENSION MOUNTED	134	NOS	**3635.25**	**487123.5**
15 W TRACK LIGHT WITH COB LED & EXTRUDED ALUMINIUM HOUSING	55	NOS	**1550**	**85250**
SINGLE PHASE 1 MTR. TRACK FOR TRACK LIGHTS	60	SET	**590**	**35400**
LED DECORATIVE HANGING LIGHT FITTINGS	21	NOS	**26200**	**550200**
RGB FLOOR STRIP LIGHTS OF 300 mm. LENGTH WITH CONTROLLER	123	NOS	**1638**	**201474**
5 W LED STUDY TABLE LAMP	9	NOS	**4585**	**41265**
ITEM NO 234 Supply, Installation,Testing & Commissioning of Response indicator for all detectors located above false ceiling. Complete as required Approved MR	68	NOS	**250**	**17000**
ITEM NO. 235 Supplying and erecting electronic type cordless call bell erected on T.W. board having portable bell push working on 9V D.C. battery and (effective range upto 45 Mtrs.) bell on 250 V.A.C. supply. CSR 2-2-5	5	NOS	**555**	**2775**
ITEM NO 236 Providing & fixing AC Charger of model named as AC Type 2 with power rating of 7.4 kW & charging connector IEC62196-2 Gun, the input power supply should be of one phase with all required accessories. (For all 4 W of 2nd generation like Nexon, MG, Mercedes etc.) complete as per specification and drawing provided by the Engineer InchargeApproved MR	2	NOS	**84375**	**168750**
ITEM NO 237 Providing & fixing AC Charger of model named as Bharat AC01 with power rating of 3x3.3 KW & charging connector 3 NOS of 16 A Socket, the input power supply should be of three phase with all required accessories. (For 2/3 W & 4 W slow charging) complete as per specification and drawing provided by the Engineer Incharge Approved MR	1	NOS	**77625**	**77625**
ITEM NO 238 Providing & fixing DC Fast Charger of model named as CCS2 with power rating of 30 KW & charging connector 1 NOS of 30 KW CCS2 gun, the input power supply should be of three phase with all required accessories and the output current wil be	2	NOS	**739800**	**1479600**

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125 A per Gun. (For all 4 W of 2nd generation like Nexon, MG, Mercedes etc.) complete as per specification and drawing provided by the Engineer Incharge Approved MR				
ITEM NO.239 Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB CSR 5-3-2	12	NOS	174	2088
ITEM NO.240 Supplying, erecting & marking SPMCB 6A to 32A, B-series (for motor/power) in provided distribution board as per specification No. SW-SWR/MCB CSR 5-3-3	40	NOS	173	6920
ITEM NO.241 Supplying, erecting & commissioning 4 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-5	4	NOS	2756	11024
ITEM NO.242 Supplying, erecting & commissioning 4 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-4	8	NOS	2722	21776
ITEM NO.243 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. CSR 5-6-1	8	NOS	2136	17088
ITEM NO.244 Providing & erecting floor/wall mounting, MCCB panel board, with door, suitable for 4 pole incoming 250A, 12 ways 4 pole outgoing, up to 100A MCCBs on iron frame, as per specification no. SW-MCCBPB. (Excluding MCCBs) CSR 5-7-5	1	NOS	71221	71221
ITEM NO.245 Supplying, erecting, testing & commisioning 50 kVAr, 3 phase, 50 Hz., APFCPanel with derated power contactor of suitable rating for capacitor switchingApplication for each step controlled by microprocessor based APFC relayconsisting of 2,3,3,5,5,7,10,15 or suitable steps of MPP /APP type capacitor with525 V and having minimum overcurrent capacity of 1.8 In, peak inrush currentcapacity 300 In and minimum life 150000 hours with detuned aluminiumwound reactor of 7/ 14% for each step, APFC Panel shall suitable ratingMCCB as incomer and each branch/step shall have separate isolation withMCCB/MCB of Suitable rating for protection, compliance to IEC 61439 andpower quality IEC 61921 standard as per specification no. CP-ED/APFC CSR 6-9-18	1	NOS	273707	273707
ITEM NO.246 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 150 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 CSR 7-1-21	100	m	902	90200
ITEM NO.247 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 120 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 CSR 7-1-20	30	m	761	22830
ITEM NO.248 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/ pipe as per specification no. CB-LT/CU CSR 7-2-32	200	m	398	79600
ITEM NO.249 Supplying, erecting & terminating FR 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-LT/CU CSR 7-2-31	250	m	299	
ITEM NO.250 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/ pipe as per specification no. CB-LT/CU CSR 7-2-33	250	m	605	151250
ITEM NO.251 Supplying & erecting single compression type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm cable as per specification No. CB-GL CSR 7-7-1	26	Nos	73	1898
ITEM NO.252Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm cable as perspecification No. CB-GLCSR 7-7-2	6	Nos	93	558
ITEM NO.253 Supplying & erecting single compression type brass cable glands for 3½ core 120 sq mm cable as per specification No. CB-GL CSR 7-7-8	2	Nos	372	744
ITEM NO.254 Supplying & erecting single compression type brass cable glands for 3½ core 150 sq mm cable as per specification No. CB-GL CSR 7-7-9	2	Nos	372	744
ITEM NO.255 Supplying & erecting crimping type copper lugs for cable upto 16 sq mm complete as per specification No. CB-CL/CU CSR 7-9-1	32	Nos	24	768
ITEM NO.256 Supplying & erecting crimping type aluminium lugs for cable 120 sq mm complete as per specification No. CB-CL/AL CSR 7-10-7	8	Nos	47	376
ITEM NO.257 Supplying & erecting crimping type aluminium lugs for cable 150 sq mm complete as per specification No. CB-CL/AL CSR 7-10-8	8	Nos	59	472
ITEM NO.258 Supplying, erecting, testing & commissioning of 3 kVA capacity on line pure sine wave,PWM,IGBT based UPS with 0.8 to unity output pf ,single phase input	1	Each	51298	51298

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& 1 phase output complete with all protections as per specification no. AP-UPS (Without batteries) CSR 3-7-3				
ITEM NO 259 Supplying and erecting 12 V/65Ah SMF battery with battery terminal wire, duly charged complete with 24 months warranty complete CSR 3-8-11	5	Each	**6683**	**33415**
ITEM NO 260 Supplying, erecting, testing & commisioning 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 sleeve complete as per specification no. CP-BB CSR 6-2-11	20	kg.	**723**	**14460**
ITEM NO 261 Supplying, erecting, testing & commisioning metal work in CRCA sheet including Iron work for supports with fabrication of boxes, panel boards, etc. including cutting, bending, drilling, welding, riveting, treated with anti-rust treatment and painted with one coat of red lead paint and 2 coats of enamel paint or powder coating complete as per specification no. CP/SH/CR CSR 6-1-1	150	kg.	**261**	**39150**
ITEM NO 262 Supplying & erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 36 ways, on iron frame/wooden board (Horizontal type) as per specification No. SW-SWR/MCBDB CSR 5-4-3	5	NOS	**4118**	**20590**
ITEM NO 263Supplying and erecting modular type switch 6A / 10A ISI markapproved make duly erected on provided plate and box withwiring connections complete CSR 1-6-1	50	NOS	**72**	**3600**
ITEM NO 264 Supplying and erecting modular type switch 16A ISI mark approved make duly erected on provided plate and box with wiring connections complete. CSR 1-6-2	50	NOS	**108**	**5400**
ITEM NO 265 Supplying and erecting modular type 3 pin 6/16A multi socket with safety shutter on provided plate and box with wiring connections complete CSR 1-6-11	50	NOS	**186**	**9300**
ITEM NO 266 Supplying and erecting modular type 3 pin 6A multi socket with safety shutter on provided plate and box with wiring connections complete CSR 1-6-10	20	NOS	**116**	**2320**
ITEM NO 267 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 morter / POP as per required to match the background in an approved manner. CSR 1-6-34	20	NOS	**231**	**4620**
ITEM NO 268 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 morter / POP as per required to match the background in an approved manner. CSR 1-6-35	12	NOS	**234**	**2808**
ITEM NO 269 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 morter / POP as per required to match the background in an approved manner. CSR 1-6-36	10	NOS	**269**	**2690**
ITEM NO 270 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 morter / POP as per required to match the background in an approved manner. CSR 1-6-38	10	NOS	**389**	**3890**
ITEM NO 271 Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & fixing. CSR 1-6-24	5	NOS	**24**	**120**
ITEM NO 272 Supplying, fixing, and configuring 48 Ports + 4 SFP combo, layer 2, GB managed ethernet switch, with web view compliant with IEEE 802.3 standards erected in provided rack complete CSR 19-4-20	1	NOS	**148779**	**148779**
ITEM NO 273 Supplying, erecting, testing and commissioning of 18HP, 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 1000 metre 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete CSR 3-11-7	2	NOS	**473202**	**946404**
ITEM NO 274 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 1000 metre 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	6	NOS	**455315**	**2731890**

protection cover, built in oil separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete. CSR 3-11-6				
ITEM NO 275 Supplying, erecting, testing and commissioning of 14HP, 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 1000 metre 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete. CSR 3-11-5	6	NOS	417935	2507610
ITEM NO 276 Supplying, erecting, testing and commissioning of 12HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete.CSR 3-11-4	2	NOS	321588	643176
ITEM NO 277 Supplying, erecting, testing and commissioning of 10HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete CSR 3-11-3	6	NOS	303287	1819722
ITEM NO 278 Supplying, erecting, testing and commissioning of 7HP to 8HP, 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 separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V±10%, 50 Hz, 3 phase power supply (all suitable for high ambient conditions), internal copper refrigerant piping, internal wiring and refrigerant, etc. all housed in powder coated weather proof cabinet complete. CSR 3-11-2	1	NOS	289164	289164
ITEM NO 279 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 consisting with any additional refrigerant and oil charge as per requirement during installation.CSR 3-11-22	35	NOS	39451	1380785
ITEM NO 280 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 2.0TR (618 cfm) to 2.3TR (671 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 consisting with any additional refrigerant and oil charge as per requirement during installation. CSR 3-11-20	23	NOS	38002	874046
ITEM NO 281 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 1.5TR (512 cfm) to 1.8TR (618 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 consisting with any additional refrigerant and oil charge as per requirement during installation. CSR 3-11-19	6	NOS	37640	225840

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ITEM NO 282 Supply, installation, testing and commissioning of VRV / VRF based ductable type, high static room/indoor unit (IDU) having nominal cooling capacity of 8.0TR (3200 cfm) having EER as per BEE standards and specifications with evaporator fan with motor, copper tube aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power supply, etc. having anti-corrosive coating suitable for costal area and decorative slim dimension suitable for ceiling suspended arrangement with an electronic control console and any additional refrigerant and oil charge as per requirement during installation complete. CSR 3-11-56	9	NOS	**64592**	**581328**
ITEM NO 283 Supply, installation, testing and commissioning of VRV / VRF based ceiling suspended 8.0TR (6600 cfm) to 10.0TR (8200 cfm) Treated Fresh Air (TFA) (5380 cfm) room/IDU with evaporator fan with motor, copper tube, aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power . having anti-corrosive coating suitable for costal area with decorative slim dimension suitable ceiling suspended arrangement and an electronic control console with any additional refrigerant and oil charge as per requirement during installation complete 1236 CFM / 8.0TR CSR 3-11-59	4	NOS	**93866**	**375464**
ITEM NO 284 Supply, installation, testing and commissioning of VRV / VRF based ceiling suspended 6.5TR Treated Fresh Air (TFA) (5380 cfm) room/IDU with evaporator fan with motor, copper tube, aluminium fin evaporator coil, washable air filter, insulated drain tray, in built drain pump, expansion device, cordless remote control with necessary controls and electrical terminal to receive power . having anti-corrosive coating suitable for costal area with decorative slim dimension suitable ceiling suspended arrangement and an electronic control console with any additional refrigerant and oil charge as per requirement during installation complete 988 CFM / 6.0TRCSR 3-11-58	1	NOS	**74475**	**74475**
ITEM NO 285 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-89	105	NOS	**2662**	**279510**
ITEM NO 286 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-90	140	NOS	**2487**	**348180**
ITEM NO 287 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR	200	NOS	**2435**	**487000**
ITEM NO 288 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 damages, fungal growth, flame spread, water permeance and ultra violet radiation with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-92	310	NOS	**1634**	**506540**
ITEM NO 289 Supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 19.1mm 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 damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-93	350	NOS	**1272**	**445200**
ITEM NO 290 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-94	340	NOS	**1119**	**380460**
ITEM NO 291 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	180	NOS	**831**	**149580**

19mm thick elastomeric nitrile rubber along with application of multicoating of VRV/VRF piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete CSR 3-11-95				
ITEM NO 292 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 piping for protection against mechanical damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete. CSR 3-11-96	340	NOS	700	238000
ITEM NO 293 supplying, laying/fixing, testing and commissioning of appropriate nominal refrigerant copper pipe of 6.4mm 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 damages, fungal growth, flame spread, water permeance and ultra violet radiations with OEM standards of VRV/VRF air conditioning system complete. CSR 3-11-97	45	NOS	544	24480
ITEM NO 294 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 normal operation of the VRV/VRF air conditioning system CSR 3-11-86	90	NOS	6144	552960
ITEM NO 295 Providing and fixing on walls/ ceiling/ floor 50mm dia CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete SSR 42.60	100	RMT	778.05	77805
ITEM NO 296 Providing and fixing on walls /ceiling/ floor 40mm dia CPVC pipe with necessary fittings,remaking good the demolished portion etc. complete. Pipeline if necessar yand conveying and stacking the same in PWD chowky or as directed etc. complete SSR 42.59	150	RMT	565.95	84892.5
ITEM NO 297 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 the same in PWD chowky or as directed etc. complete. SSR 42.58	200	RMT	452.55	90510
ITEM NO 298 Providing and fixing on walls/ ceiling/ floor 25mm dia CPVC pip ewith necessary fittings,remaking good the demolished portion etc. complete Including removing existing pipeline if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete SSR 42.57	300	RMT	393.75	118125
ITEM NO 299 Supplying, erecting, testing & commisioning 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 of red lead paint and 2 coats of enamel paint as per specification no. CP/SH/CRCSR 6-1-2	1750	SMT	1482	2593500
ITEM NO 300 Supplying, erecting, testing & commisioning GI sheet 0.8 mm (22 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 of red lead paint and 2 coats of enamel paint as per specification no. CP/SH/CR CSR 6-1-3	200	SMT	1503	300600
ITEM NO 301 Supply, fabrication, installation an testing of flexible canvass connections constructed between ductable unit/dampers/ducting of suitable size with fire resist flexible double canvas sleeve complete CSR 3-11-82	15	NOS	2952	44280
ITEM NO 302 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 CSR 3-11-83	1500	SMT	1048	1572000
ITEM NO 303 Providing and applying of acoustic insulation for air ducts with 25mm thick, 48kg/cu.m fiber glass faced with RP tissue and covered with 26SWG perforated aluminium sheets complete CSR 3-11-84	150	SMT	1191	178650
ITEM NO 304 Supplying, installing and testing of 25 mm thick underdeck insulation. Insulation material shall be Closed Cell Elastomeric Nitrile Rubber. Thermal conductivity of insulation material shall not exceed 0.035 W/(m.K) at mean temperature of 0°C as per EN 12667. Moisture Diffusion Resistance Factor or 'μ' value of insulation material shall be minimum 7,000 without any external barrier as per EN 12086. The insulation shall have fire performance such that it passes Class 1 as per BS476 Part 7 for surface spread of flame as per BS 476 and also pass Fire Propagation requirement as per BS476 Part 6 to meet the Class 'O' Fire category as per 1991 Building Regulations (England & Wales) and the Building Standards (Scotland) Regulations 1990 The insulation material shall have fire performance of V0, HB as per UL 94, 1996. Material should be FM (Factory Mutual), USA approved. The insulation material shall be dust and fibre free. Approved MR	2335	SMT	1215	2837025
ITEM NO 305 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 of 15/30/45°. CSR 3-11-88	200	JOB	1364	272800

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ITEM NO 306 Supply, installation, testing and commissioning of volume control box with collar for control damper of required sizes in GI construction with operating mechanism, mounting arrangement, rubber refrigerant kits etc. complete. CSR 3-11-81	8	SMT	**6265**	**50120**
ITEM NO 307 Supplying and installing of collar damper of galvanised iron material of upto 120 microns for anti corrosive resistance for supply air grill of suitable size. CSR 3-11-87	10	SMT	**6948**	**69480**
ITEM NO 308 Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (201-400 cfm) Approved MR	2	NOS	**4750**	**9500**
ITEM NO 309Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (401-600 cfm)Approved MR	26	NOS	**5500**	**143000**
ITEM NO 310 Supply, installation, testing and commissioning of Extruded Aluminium Construction powder coated Jet nozzle (601-800 cfm) Approved MR	2	NOS	**6500**	**13000**
ITEM NO 311 Aluminium Extruded Fresh Air & Exhauast Rain Protection Air Louvers with Bird screen Approved MR	6	NOS	**12000**	**72000**
ITEM NO 312 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 two coats of enamel paint to match the switchgears or as per directions by the site engineer (FOR OUT DOOR UNIT) CSR 6-1-19	550	KG	**196**	**107800**
ITEM NO 313 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, temperature limitation, history function complete erected on wall integrated with provided fire alarm system. CSR 3-11-79	2	NOS	**48544**	**97088**
ITEM NO 314 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 1 phase, 230V, 50Hz, A.C. supply complete. CSR 3-11-60	10	NOS	**5268**	**52680**
ITEM NO 315 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. CSR 3-11-61	10	NOS	**15884**	**158840**
ITEM NO 316 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 CSR 2-9-17	1	NOS	**5352**	**5352**
ITEM NO 317 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	1	NOS	**4932**	**4932**
ITEM NO 318 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 upto 650V (Control cable) CSR	350	RMT	**50**	**17500**
ITEM NO 319 Supplying and erecting HMSPV Cconduit 20mmdia with PVC accessories on wall / ceiling as per specification no. WG-MA/CON. CSR 3-3	300	RMT	**84**	**25200**
ITEM NO 320 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/ pipe as per specification no. CB-LT/CUCSR 7-2-32	80	RMT	**398**	**31840**
ITEM NO 321 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/ pipe as per specification no. CB-LT/CU CSR 7-2-33	174	RMT	**605**	**105270**
ITEM NO 322 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 CSR 7-2-34	54	RMT	**867**	**46818**
ITEM NO 323 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from16SWG GI sheet of 300mm width & 75mm height complete with necessary coupler plates & hardware. CSR 7-11-8	190	RMT	**846**	**160740**
ITEM NO 324 Providing & erecting hot dipped galvanised perforated type cable tray manufactured from16SWG GI sheet of 150mm width & 75mm height complete with necessary coupler plates & hardware. CSR 7-11-6	200	RMT	**590**	**118000**
ITEM NO 325 Supplying 6A 3 pin plug top bakelite type of 230V A.C. supply. CSR 1-5-14	75	NOS	**53**	**3975**

ITEM NO.326 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 1 phase, 230V, 50Hz, A.C. supply complete. CSR_3-11-60	4	NOS	5268	21072
ITEM NO.327 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 CSR_3-11-61	6	NOS	15884	95304
ITEM NO.328 Supplying and erecting SS enclosure of 1.6mm thick with detachable gland plate suitable for upto 100A MCCB. CSR 5-11-17	16	NOS	988	15808
ITEM NO.329 Supplying, erecting & commissioning 4 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-5	9	NOS	2756	24804
ITEM NO.330 Supplying, erecting & commissioning 4 pole RCCB 16/25A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-4	7	NOS	2722	19054
ITEM NO.331 Supplying, erecting & commissioning 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB. CSR 5-6-6	7	NOS	3092	21644
ITEM NO.332 Supplying & erecting single compression type brass cable glands for 2 to 4 core 2.5 sq mm /2 to 4 core 4 sq mm /2 core 6 sq mm cable as per specification No. CB-GLCSR 7-7-1	76	NOS	73	5548
ITEM NO.333 Supplying & erecting single compression type brass cable glands for 3 to 4 core 6 sq mm /2 to 4 core 10 sq mm cable as per specification No. CB-GL. CSR 7-7-2	18	NOS	93	1674
ITEM NO.334 Supplying & erecting single compression type brass cable glands for 3 to 4 core 16 sq mm /3 to 4 core 25 sq mm /3 core 35 sq mm cable as per specification No. CB-GL. CSR 7-7-3	10	NOS	185	1850
ITEM NO.335 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, working on 1 phase, 230V, 50Hz, A.C. supply. CSR 3-11-76	12	NOS	22785	273420
ITEM NO.336 Supply, installation, testing and commissioning air curtain of 4feet width having air throw velocity of 21m/sec, low noise level up to 38 to 46dBA suitable for door height upto 9feet, working on 1 phase, 230V, 50Hz, A.C. supply. CSR 3-11-75	10	NOS	19616	196160
ITEM NO.337 Providing & erecting 4 Pole MCCB of 200A,415V capacity with short circuit rating 25 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR 5-5-2	1	NOS	10832.4	10832.4
ITEM NO.338 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 alarm contact. MCCB with phase barriers on both sides, insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-MCCB CSR 5-5-1	4	NOS	6969.6	27878
ITEM NO.339 Supplying & erecting ON LOAD change over switch 4 Pole, 415V, 160A, open execution having staggered termination, phase barrier, shroud termination and terminal cover along with auxiliary contacts and ready to upgrade with fuse protection kit, operational current category AC23A complying to IS/IEC 60947-3 Part-1/3 as per specification no. SW-SWR/COS. CSR 5-1-5	1	NOS	8729	8729
ITEM NO.340 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 3 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-LT/CU CSR 7-2-16	20	RMT	318	6360
ITEM NO.341 Supplying, erecting & terminating FR XLPE insulated, galvanised steel wire armoured (round) cable 1100 V, 3 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 CSR 7-2-17	20	RMT	478	9560
ITEM NO.342 Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 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/ALCSR 7-1-18	10	RMT	499	4990
ITEM NO.343 Preparing Lawn (30 cm. depth) - Excavating the ground to a required depth of 30cms, removing & conveying unwanted stuff to a required distance as directed. Filling fresh garden soil/silt & manure in excavated area in 3:1 proportion to a height of 30cms. Mixing garden soil and manure thoroughly well, leveling, and watering on previous night. Planting required variety of lawn grass as directed and maintaining till well established by watering, weeding, elinning rolling etc complete PARK AND GARDEN DSR	2614.45	SMT	692	1809199.4

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ITEM TO 344 Preparingflower Bed :-Excavating the ground to the required depth of 30cms, Removing and conveying unwanted stuff to a required distance as directed, Filling fresh garden soil & manure in excavated area in 3:1 proportion to a required height of 30cms Mixing garden soil and manure thoroughly well, leveling, watering, on previous night. Planting seedlings of required annuals 25cms apart Maintaining till well established by watering weeding, Stirring replacing of casualties etc, Complete PARK AND GARDEN DSR	1052.758	SMT	**683**	**719033.714**
ITEM NO 345 GARDEN SOILSupplying on site garden soil well sieved 90% to pass through IS. sieve of 10 mm size free from stones rubbish like dried grass roots and other such materials. The soil should be fresh from quarry. The color of the soil generally is red. The soil will be measured by measuring box. (Farma) Item includes royalty charges, octroi, corporation Tax Transporting loading -unloading etc (Lead charges per 90 km considered) PARK AND GARDEN DSR	942.62	CMT	**840**	**791800.8**
Plant should be healthy ,well rooted ,diseased free and free from any pest attack with sufficient moisture around root zone in pollybag. (Wherever applicable)				**0**
ITEM NO 346 Sapling of small & medium Ornamental flowering plants, Ornamental ficus, Mussanda etc. Thuja, Cupresus, Common Ornamental Shrubs for Shrubbery PARK AND GARDEN DSR	150	NOS	**50**	**7500**
ITEM NO 347 Palm Varities (Red Palm, Fox Tail Palm, Bottle Palm, Rhaphis Palm, Table Palm, Cristal Palm etc.) 6-8Ft PARK AND GARDEN DSR	90	NOS	**1300**	**117000**
ITEM NO 348 Plants required for Landscaping (Euphorbia, Hemelia, Malpbegra, Mussanda, Ticoma, Song of India, Golden Bamboo, Buddhas Bamboo, Golden Ficus, Phonicus Palm X'mas Tree, Ficus Panda etc.) 4-5 ft PARK AND GARDEN DSR	150.00	NOS	**275**	**41250**
ITEM NO. 349 Preparing Shrubbery - Excavating the ground to required depth of 30cms, removing and conveying unwanted stuff to a required distance as directed. Filling fresh garden soil & Manure in excavated area in 3:1 proporation to a height of 30cms. Mixing garden soil & manure thoroughly well, leveling, and watering on previous night, planting well developed shrubs plant 0.5 Mtrs. apart as directed and maintaining till well established by watering, weeding, stirring, replacing casualties etc complete PARK AND GARDENDSR	420.00	SMT	**652**	**273840**
ITEM NO. 350 Common Ornamental Shrubs for Shrubbery (1ft grown in poly bag PARK AND GARDEN DSR	350.00	NOS	**15**	**5250**
ITEM NO 351 Codieum variegatum Hybrid croton 6 " to 9 " height excluding pollybag MCGM R3-GW-5-37	90.00	NOS	**46**	**4140**
ITRM NO. 352 Samanea saman Rain tree 4' to 5 ' height excluding pollybag MCGM R3-GW-5-295	90	NOS	**81**	**7290**
ITEM NO. 353 Rohe[illegible]discolor Rhoeo Nana 4" to 6" height excluding pollybag MC[illegible]3-GW-5-145	45	NOS	**12**	**540**
ITEM NO. 354 Rho[illegible]olor Rhoeo Tall 4" to 6" height excluding pollybag MC[illegible]-GW-5-146	120	NOS	**23**	**2760**
ITEM NO 355 Delon[illegible]gia Gulmohar 4' to 5 ' height excluding pollybag MC[illegible]3-GW-5-261	50	NOS	**81**	**4050**
ITEM NO 356 Ver[illegible]na 6 " to 9 " height excluding pollybag MCGM R3-GW-5-158	120	NOS	**17**	**2040**
ITEM NO 357 Chlorophytum laxum Dwarf Chlorophytum 6 " to 9 " height excluding pollybag MCGM R3-GW-5-40	120	NOS	**23**	**2760**
ITEM NO 358 Chlorophytum comosum Spider Plant 6 " to 9 " height excluding pollybag MCGM R3-GW-5-39	120	NOS	**23**	**2760**
ITEM NO 359 Mangifera indica Mango 4' to 5 ' height excluding pollybag MCGM R3-GW-5-284	50	NOS	**144**	**7200**
ITEM NO 360 P.V.C. pipe 15mm dia.10kg/cm2 pressure(class IV) SSR 178/535	200	RMT	**33.6**	**6720**
ITEM NO 361 P.V.C. pipe 20mm dia.10kg/cm2 pressure(class IV) SSR 179/535	150	RMT	**63**	**9450**
ITEM NO 362 P.V.C. pipe 25 mm dia.10kg/cm2 pressure(class IV) SSR 180/535	300	RMT	**84**	**25200**
ITEM NO 363 Providing and fixing on walls/ ceiling/ floor 15 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete SSR 42.55	250	RMT	**279.3**	**69825**
ITEM NO 364 Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete. SSR 42.56	250	RMT	**325.5**	**81375**
ITEM NO 365 Providing and fixing on walls/ ceiling/ floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing	210	RMT	**393.75**	**82687.5**

existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.SSR 42.57				
ITEM NO.366 Providing and fixing 50mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock. [Without chamber] SSR 41.30	2	NOS	16328.55	32657.1
ITEM NO.367 Supplying and erecting GI pipe 15 mm dia. 'B' class at position with accessories complete as per specification no. CW-PLB/GP. CSR 16-5-1	45	RMT	187	8415
ITEM NO.368 Supplying and erecting ISI mark GI pipe 20 mm dia.'B' class at position with accessories complete as per specification no. CW-PLB/GP. CSR 16-5-2	65	RMT	235	15275
ITEM NO.369 Supplying and erecting ISI mark GI pipe 25 mm. dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-3	55	RMT	327	17985
ITEM NO.370 Supplying and erecting ISI mark GI pipe 32 mm dia.'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-4	50	RMT	381	19050
ITEM NO.371 Supplying and erecting ISI mark GI pipe 40 mm. dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR 16-5-5	25	RMT	433	10825
ITEM NO.372 Supplying and erecting 25 mm dia. gun metal sluice valve at position with necessary materials complete CSR 16-6-13	2	NOS	903	1806
ITEM NO.373 Supplying and erecting 40 mm. dia. gun metal sluice valve at position with necessary materials complete CSR 16-6-14	3	NOS	1737	5211
ITEM NO.374 Ball valves for 50mm dia SSR 294/538	8	NOS	1676.85	13414.8
ITEM NO.375 Supplying and erecting 20/25mm 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	6	NOS	884	5304
ITEM NO.376 Control valve made of rigid pvc. compound compact double union type with nitrile rubber o ring, ptfe seat ring, solvent weld - 50 mm. MCGM GW-4-8-a	2	NOS	2563	5126
ITEM NO.377 Control valve made of rigid pvc. compound compact double union type with nitrile rubber o ring, ptfe seat ring, solvent weld - 75 mm. MCGM GW-4-8-b	1	NOS	7229	7229
ITEM NO.378 Providing and fixing 100 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete SSR 42.52	40	RMT	827.4	33096
ITEM NO.379 Providing and fixing 75 mm dia stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. completeSSR 42.51	60	RMT	637.35	[illegible]
ITEM NO.380 R.C.C.pipe Np2 class 150mm dia. 2m long SSR 853/541	10	RMT	363.3	[illegible]
ITEM NO.381 Light weight impact type sprinkler with SS retraction spring , 1/2" m threaded inlet full circle with bayonet nozzle 2.5 x 1.8 mm giving distribution uniformity more than 88% at 9 x 9 m, 10 x 10 m, 9 x 12 m, 10 x 12 m or 12 x 12 m. operating pressure 3 kgf IS 12232-1 MCGM GW-4-4-d	30	NOS	294	8820
ITEM NO.382 Modular sprinkler with plastic stake assembly -operating pressure 1.5 to 3 kgf. flow rate 25 to 400 lph. with nozzle for minimum 90% distribution uniformity at specified spacing MCGM GW-4-4-b	5	NOS	73	[illegible]
ITEM NO. 383 Sand Filter 800 Filter, Manufactured by simultaneously injecting fiber and resin. Fitted with PVC collectors, diffuser, pressure gauge, manual air bleed and drain valve 1.5" PVC Multiport valve and Initial Charge of Filter Media. Make: Pentair and Equivalent Approved MR	3	NOS	84835	254505
ITEM NO.384 Pump for Pool Filter Type : Basket Strainer Hose Power : 4-6 HP Make : Leo and Equivalent Approved MR	3	NOS	62126	186378
ITEM NO.385 Suction Sweeper with Maintenance Kit: Vacuum Head, Floating Hose of 9 Meters Length, 2 x 2.4 M Length Telescopic Handle, Leaf Rake, 18" Wall Brush, pH and Chlorine Test Kit, Make : Emaux and Aarav Enterprises Approved MR	3	SET	30019	90057
ITEM NO.386 Drain Cover Make : Emaux Approved MR	2	NOS	2350	4700
ITEM NO.387 Suction Cover Make : Emaux Approved MR	2	NOS	2350	4700
ITEM NO.388 Vacuum Nozzle	2	NOS	1045	2090

Make : Emaux Approved MR				
ITEM NO 389 Floor Inlet Make : Emaux Approved MR	6	NOS	914	5484
ITEM NO 390 Panel Board For LED Lights(Warm Colour) Made from Mild Steel Sheets to house Drivers with controls Make : Aarav Enterprises Approved MR	16	NOS	9398	150368
ITEM NO 391 Supplying and erecting integrated LED Bollard Cylindrical / Cubical shaped 500mm 8W IP65 & IK10 class having extrusion aluminium housing with polycarbonate diffuser, having system lumens output of Min. 800 Lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6500K, THD<10%, p.f. >0.90, operating range of 140-240V, inbuilt surge protection of 2 kV, Life class of 25,000 Hrs. at L50B50, including driver complete with minimum 2 Year warranty as per specification No FG-ODF/BL CSR 2-3-19	90	NOS	6115	550350
ITEM NO 392 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, Durable and Vandal resistant Approved MR	20	NOS	4500	90000
ITEM NO 393 Fountain (SP-ME-TS-75) MCGM GW-4-5				0
Foam Bubble/ Geyser jet fitted on universal ball joint MCGM GW-4-5-b	6	NOS	5914	35484
SS 304 Framed mesh cover MCGM GW-4-5-b	3	NOS	16936	50808
Monobloc Submersible Pump MCGM GW-4-5-c	1	NOS	66128	66128
IP 68 TYPE PIrogramable submersible Lights MCGM GW-4-5-d	8	NOS	30579	244632
Fabricated MS powder coated control panel MCGM GW-4-5-e	1	NOS	25404	25404
Necessary G.I / PVC plumbing pipes, fittings , valves MCGM GW-4-5-f	2	SET	50809	101618
Necessary electrical cabling MCGM GW-4-5-g	2	JOB	42340	84680
Spot Light MCGM GW-4-5-h	10	NOS	1882	18820
ITEM NO 394 Installation Programing Caliberation with excecution Digital Analogue Semi Mixing Console Sound Craft SI Impact/ 32 Input Approved MR	1	NOS	324300	324300
ITEM NO 395 Installation Programing Caliberation with excecution Instrumental Microphone Shure SM 57 Approved MR	1	NOS	10005	10005
ITEM NO 396 Installation Programing Caliberation with excecution Vocal Microphone Shure SM 58 Approved MR	1	NOS	11385	11385
ITEM NO 397 Installation Programing Caliberation with excecution Wirelsess Handhel Microphone Shure SVX24/N/PG58 Approved MR	1	NOS	25806	25806
ITEM NO 398 Installation Programing Caliberation with excecution Wirelsess Lapel Microophone Shure SVX14/CVL Approved MR	1	NOS	26910	26910
ITEM NO 399 Installation Programing Caliberation with excecution Goose Neck Microphone Shure MS 418/C Approved MR	1	NOS	27970	27970
ITEM NO 400 Installation Programing Caliberation with excecution Hi Net Microphone for Chorus PGA 81 Approved MR	1	NOS	12351	12351
ITEM NO 401 Installation Programing Caliberation with excecution Genreal Purpose Microphone Shure PGA 58 Approved MR	1	NOS	5796	5796
ITEM NO 402Installation Programing Caliberation with excecution Drumkit Microphone PGDMK -7Approved MR	1	SET	51750	51750
ITEM NO 403 Installation Programing Caliberation with excecution Satge Box Approved MR	14	NOS	10350	144900
ITEM NO 404 Installation Programing Caliberation with excecution Amphenol XLR & RCA Connector Approved MR	1	SET	34500	34500
ITEM NO 405 Installation Programing Caliberation with excecution 32 U WQ Exhaust Rack With Shelf & Power Approved MR	1	NOS	50370	50370
ITEM NO 406 Installation Programing Caliberation with excecution Snake Cables & Connector Percon Approved MR	75	RMT	1725	129375
ITEM NO 407 Installation Programing Caliberation with excecution Speaker Cable 2.5 sqmm Approved MR	150	RMT	220	33000
ITEM NO 408 Installation Programing Caliberation with excecution Speaker Cable 4.00 Sqmm Approved MR	300	RMT	390	117000

ITEM NO 409 Installation Programing Caliberation with excecution Sommer Interconnect Cables Approved MR	1	SET	41400	41400
ITEM NO 410 2000W active, portable loudspeaker system; 10-inch woofer; 1.0-inch compression driver; 90 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. Approved MR	4	NOS	134620	538480
ITEM NO 411 18" ported, 1500W subwoofer with integrated casters Approved MR	2	NOS	269985	539970
ITEM NO 412 2000W active portable loudspeaker system; 12-inch woofer; 1.0-inch compression driver; 75 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. INCLUDES 1x EU CABLE IN CARTON Approved MR	4	NOS	136300	545200
ITEM NO 413 2000W active, portable loudspeaker system, 12-inch woofer; 1.0-inch compression driver; 105 degree conical waveguide; dual angle pole socket; presets and user adjustable DSP. For use as main or stage monitor. INCLUDES 1x EU CABLE IN CARTON Approved MR	2	NOS	150282	300564
ITEM NO 414 Unified Series Core with 24 local I/O channels, 128x128 network I/O channels, dual LAN ports, telephone POTS, 16x16 GPIO, 16 AEC channels, 1RU Approved MR	1	NOS	431595	431595
ITEM NO 415 4 channels, 2000 watts burst power/ch @ 4Ω, Q-LAN network input from Q-Sys Core Approved MR	2	PC	305100	610200
ITEM NO 416 4 channels, 1400 watts burst power/ch @ 4Ω, Q-LAN network input from Q-Sys Core Approved MR	1	PC	246980	246980
ITEM NO 417 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m) By Mechanical Means SSR 21.02 / 153	2185.35	CMT	217.35	474985.8225
ITEM NO 418 Excavation for foundation in earth, soils of all types, sand,gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means SSR 21.04 / 153	50	CMT	270.9	13545
ITEM NO 419TRANSPORTING OF EXCAVATED MATERIALS lead 20.00 k.m SSR in StatementC 1(Page 560)	2235.35	CMT	468.37	1046970.88
ITEM NO 420 Filling in plinth and floors with approved excavated material in 15cm to 20cm layers including watering and compacting etc. complete. SSR 21.36/157	447.07	CMT	126	56330.82
ITEM NO 421 Filling in plinth and floors with contractors material/brought from outside and approved by Engineer incharge in layers of 15 cm to 20 cm including watering and compaction etc. complete SSR 21.37 / 157	4082.55	CMT	1212.59	4950482.305
ITEM NO 422 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete SSR 21.38 / 157	404.915	CMT	3240.42	1312094.68
ITEM NO423 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, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete With fine aggregate (Crushed sand VSI Grade) (PCC) SSR 24.10 / 176	296.6875	CMT	8391.86	2489759.025
ITEM NO 424 Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C columns and steel stanchion etc. columns as per detailed designs and drawing or as directed including Steel centering formwork, cover blocks laying/pumping, compaction finishing the formed surface 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 structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.15/178	225.2295	CMT	9130.61	2056482.725
ITEM NO 425 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 structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.35/180	84.96	CMT	16143.56	1371556.858
ITEM NO 426 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/	128.52	CMT	14552.81	1870327.141

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 PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)SSR 25.54 /181				
ITEM NO 427 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 structural steel) with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) SSR 25.74 / 183	89.735	CMT	**16300.01**	**1462681.397**
ITEM NO 428 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, hooking the bars, binding with wires or tack welding and supporting as required complete. SSR 26.33 / 188	103	MT	**94188.15**	**9701379.45**
ITEM NO 429 Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete SSR 27.05 / 197	680.939145	CMT	**10027.16**	**6827885.757**
ITEM NO 430 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 mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc complete SSR 32.11 / 209	4142.63	SMT	**700.64**	**2902492.283**
ITEM NO 430A 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	630	SMT	**305.4**	**192402**
ITEM NO 431 Providing and applying Texture plaster with finishing with texture material of approved make in 3 to 4 millimeter thickness on previously plastered surface, including Plaster Groove 6mm thickness or Tape Grooves 35 to 45 mm thickness or as required, in all position including preparing the surface, scaffolding etc. complete. SSR 32.32/211	3372.63	SMT	**659.4**	**2223912.222**
ITEM NO 432 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	762.5	SMT	**151.2**	**115290**
ITEM NO 433 Providing and fixing corrugated galvanised iron sheets of 0.63mm thick (24 B.W.G.) for roofing without wind tiles including fastening with galvanised iron screws and bolts and nuts and bitumen washers as per drawing etc. complete.(Weight of 5.5 kg/sq.m.)SSR 38.04/233	50	SMT	**913.5**	**45675**
ITEM NO 434 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 EUCEB 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 1000oC 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 through online oscillation process using PU based glue of reputed make and ensure high adhesive uniformity & proper bonding with sheet. Panel shall be joined together using tongue & groove joinery with max tolerance of 3mm and shall be packed online before the transportation to avoid scratches. The top profiled sheet of 0.5mm TCT PPGI and bottom Micro Ribbed of 0.5mm PPGI				
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 aesthetic and support (girth up to 600 mm) Providing and fixing Gutter (girth up to 900 mm), (PVC nozzle length 300mm) (PPGI - 0.5mm thick). Fire Rated 2 Hr Approved MR	889.2	SMT	**6609**	**5876722.8**
ITEM NO 435 Providing Autoclaved Aerated Concrete Block masonary of Ecolite or equivalent make 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 be carried out conforming to IS 6441 (Part I) - 1972) SSR 27.15/198	58.512	CMT	**7707**	**450951.984**
ITEM NO 436 Providing and fixing in position (as per 1868 / 1982) Alluminium sliding window of three tracks with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 kg/Rmt. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 kg/Rmt. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 kg/Rmt. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 kg/Rmt. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 kg/Rmt. and handle and top section 40 x 18 x 1.25 mm at weight o.417 kg/Rmt. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and aluminium mosquito net shutter with stainless steel jail with all required screws and nuts etc, complete. With colour Anodising with box SSR 39.41 / 253	7.2	SMT	**5777.1**	**41595.12**

ITEM NO 437 a) Supplying and fixing in position b) Powder CoatedAluminium four track sliding windows with outer frame made from section of over all size 122 mm x 45 mm, bottom section with drain section track weighing 1.83Kilogramper metre and top and side section of size 122x 31.75 mm weighing 1.15Kilogramper running metre with shutter sections made of 18 mm x 40 mm size having average weight of 0.6Kilogramper running metre (or as required size) with change in proportionate weight, with 6 mm float glass in three equal panels and alluminium coated stainless steel mosquito net in one (2/3 of opening) panel fixed with new neoprene gasket, shutters to be provided with nylon encased stainless steel rollers, necessary locks and handles complete SSR 39.45B/255	216	SMT	6962.55	1503910.8
ITEM NO 438 Providing and fixing in position aluminium partly openable and partly fixed window of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening with 5 mm thick float glass etc. complete. b) With powder coating Note Whilearriving at the rate of item of item weight at 6.90 Kilogram/Square Metre is considered SSR 39.55/257	10.8	SMT	6596.1	71237.88
ITEM NO 439 Providing and fixing in position b) Powder Coated aluminium fixed window fully glazed of any size as per detailed drawing and as directed by Engineerincharge with all necessary alluminium sections including necessary fixtures and fastening such as 5 mm thick clear float glass etc. complete. SSR 39.53B/257	108	SMT	6001.8	648194.4
ITEM NO 440 Providing and fixing of factory made uPVC casement window / Fixed Window & Casement Door (White Colour) comprising uPVC multi-chambered frame, Sash, & Mullion with wall thickness of 2.3mm (+-0.2 mm), duly reinforced with G.I. section 1.5 mm, wherever required. uPVC window & door profile shall be made in India & shall conform to BS EN 12608 and other standards as mentioned below. S.No. Name of the test Test Method Specified Parameter 1 Tensile Impact Strength ISO 8256 - more than 700Kj/m2 2 Vicat Softening Temperature EN ISO – 306 Shall not be < 750C 3 Charpy Impact Strength EN ISO – 179-2 Shall not be < 20KJ/m2 4 Flexural Modulus Elasticity EN ISO – 178 Shall not be < 2200 N/mm2 5 Mean Breaking Stress for welded corner (a) For the tensile bending test EN – 514 Shall not be < 25 N/mm2 (b) For the compression bending test Shall not be < 30N/mm2 6 Heat Reversion Test IS 4985-2000 Shall not be > 2.0 % 7 Surface Spread of flame BS 476 - Part 7 Classification 1 8 Ignitability Evaluation BS 476 - Part 5 'P' Not easily ignitable 9 Tensile modulus ASTM D 638 Shall not be < 35 MPa 10 Shear Modulus ASTM D 732 Shall not be < 220 MPa 11 Tensile Strength EN ISO 527 Shall not be < 30 MPa				
All corners of frame and sash will be fusion welded. Mullion shall be welded / screwed. EPDM / TPE Gasket shall be provided in all frame, sash & mullion, wherever necessary. Thereafter, 5 mm Float Annealed glass shall be provided in the sash with the help of uPVC glazing bead and hardware, i.e., friction hinge & single point handle (in window) & 3D Hinges & Multipoint Lock (in door) shall be provided. Window / Door shall be fixed to the wall with 100mm long and 8mm dia Fasteners and complete in all respect as per direction of Engineer-In-Charge. uPVC Window and Door Profiles are warranted for a period of ten (10) years against non-uniform discoloration, wrapping and rotting under general use SSR 54.09/517				
Casement Window (Big Series) frame of size 67 x 62 mm & Sash / Mullion of size 67 x 78 mm.	60	SMT	11019.75	661185
Casement Door (Big Series) frame of size 67 x 62 mm & Door Sash of size 67 x 115 mm & Mullion (if required) of size 67 x 78 mm.	64.8	SMT	10060.05	651891.24
Fixed Window (Big Series) frame of size 67 x 62 mm & Mullion (if required) of size 67 x 78 mm.	24	SMT	8759.1	210218.4
ITEM NO 441 Extra For Double Glazed 8 mm thick plain / frosted / tinted glass MCGM R3-CS-AW-15-f	324	SMT	2510	813240
ITEM NO 442 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 wherever necessary, curing, etc. complete. SSR 33.68/220	178.11	SMT	4623.29	823454.1819
ITEM NO 443 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 BIa) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, approved colour grout, curing and clearing etc. complete Approved MR	1280	SMT	4069	5208320
ITEM NO 444 Providing & fixing wood finished Step seating (Pine wood or equivalent- Avg thikness 30 MM), with base of 8 mm thk Marine grade plywood, Wooden flooring to be laid as per pattern and treated properly with sanding, sealer coating, staining & 2 coats of varnish as directed as per detailed drawings. Approved MR	50	SMT	10980	549000
ITEM NO 445 Wooden floor tiles (including skirting) Providing & laying Hardwood flooring (strip format)with standard specifications. Board constructedwith 3 layers, Top layer of 3 to 6 mm thk veneer, Core material of high density fiber board, and balancing layer, Wood species of as per selection (oak, Walnutm Teak, Ash and other exotic species). The surface to be pre- finished with UV hardner acrylic hardner, free of formaldehyde and solvents. Finish of Top layer to be Matt or Satin or brushed having resistance to house hold chemicals & stains and not to change colour. RA Spec. As directed by Engineer-In-Charge.	100	SMT	6645	664500
ITEM NO446 Providing and applying plaster / wall punning with plaster of paris (with plaster of paris material of Ambuja / Mor Chap or equivalent make) 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 Finishing the surface scaffolding etc complete SSR 32.30/211	254.4	SMT	600.6	152792.64

ITEM NO 447 Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete. SSR 40.01 / 264	720	SMT	**2201.85**	**1585332**
ITEM NO 448 Providing and fixing Equipments for children play area, Gym area Etc as per drawings and specification by the engineer in charge Garden SSR				
Gym equipment				
Forearm twirl	6	NOS	**30791**	**184746**
SIT up board	6	NOS	**55066**	**330396**
Air walker	6	NOS	**74603**	**447618**
8 in 1 combination (chest press+standing twister+surf board+horse rider+leg press+cross trainer+push up bar+aerial stroller)	6	NOS	**479004**	**2874024**
ITEM NO 449 Removing cement tiles,or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete SSR 46.19/297	150	SMT	**47.25**	**7087.5**
ITEM NO 450 Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc SSR 46.09/296	100	CMT	**351.75**	**35175**
ITEM NO 451 Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc SSR 46.11/296	50	CMT	**399**	**19950**
ITEM NO 452 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 SSR 46.29/297	168	CMT	**1523.55**	**255956.4**
ITEM NO 453 Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthern bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 10.0 to 19.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary) SSR 12.24/86	2500	HRS	**234.15**	**585375**
ITEM NO. 454 BAFFLE WOOD CEILING Suspended wood baffles with the help of cables upto 6mm/required MS/GI/Aluminium section from the roof having acoustic properties and Elongated various shape baffles made with High Density Board, Solid Wood Durable Coating, Corrosion Resistant, Tamper Proof with approved Finish material Completed as per specification and drawings as per Engineer in charge Approved MR	264	SMT	**15650**	**4131600**
ITEM NO 455 Providing & Fixing in position, Acoustical Panelling made from 12mm wp Ply wood & 1.5mm laminate 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 & Acoustical Design & Instructions & Complete in all aspects including all materials labour,finishing etc complete SSR 51.04/352	312.5	SMT	**5344.5**	**1670156.25**
ITEM NO 456 Providing & Fixing in position, Fabric wrapped Compressed polyester fibre non woven 9mm panels above the wood wool board panelling or existing sal wood frame, using adhesive, as per Architectural & Acoustical Design & Instructions & Complete in all aspects. including all materials labour,finishing etc complete SSR 51.11/354	337.5	SMT	**3097.5**	**1045406.25**
ITEM NO 457 Supply of hand finish top machine cut, 3 line dressing Cobble Stone in size: 100 x 200 x 100mm in grey colour to be fixed on prepared sub-base with cement mortar 1:4 40 mm thick and cement slurry, filling of joints in C.M. 1:2 with grey cement to match the colour of cobble stone in the required pattern, design and as directed by the Engineer incharge, including cleaning, curing etc. complete as specified and as directed by the Engineer. NOTE: THIS ITEM SHOULD BE OPRATED ONLY AFTER SPECIFIC SANCTION OF DIR(E.S.& P.) or Equivalent. MCGM R3-RW-3-38	250	SMT	**1090**	**272500**
ITEM NO. 458 Providing and laying RED & BLACK GRANITE cobble stones of 100mm x 100mm x 100mm, 3 line dressing with 12 mm top layer in size of fine cut and well dressed in Grey colour in paving on a bed of min. 40 mm thick cushioning in C.M. 1:4 including neat cement float etc. filling of joints in C.M. 1:2 with grey cement to match the colour of cobble stone in the required pattern, design and as directed by the Engineer incharge, including cleaning, curing etc. complete. MCGM R3-RW-3-37	360	SMT	**3547**	**1276920**
ITEM NO 459 Providing & fixing in the footpath Combi- Paver having average crushing strength not less than 80 N/mm² as per technical specifications and IS Code 15658:2006, shot blasted 60mm thick in approved texture and colour and combination size 100 x 200, 125 x 200, 175 x 200, 225 x 200, 275 x 200 to be fixed on average compacted thickness 25 mm well graded sand cushioning uniformly compacted with proper capacity mechanical compactor with required level, grade and camber etc. complete as specified and as directed by the Engineer NOTE: THIS ITEM SHOULD BE OPRATED ONLY AFTER SPECIFIC SANCTION OF DIR(E.S.& P.) or Equivalent.Approved MR	910	SMT	**1850**	**1683500**
ITEM NO 460 Stamp Concrete of 100mm Thickness - Providing and Laying in-situ M30 Grade unreinforced plain cement stamp concrete of 100mm thickness pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand / VSI grade finely washed crushed sand) Confirming to IS 383, as per mixed in a batching and mixing plant / non tilting mixer and weigh batcher as per approved mix design, admixtures, transporting to site in nagpur city with lead upto 20KM (on Inner Ring Road from Avasti nagar to wadi), spreading, laying with approved make pover, compacted and finished in a continous operation, finishing to lines and grades Also Providing, Placing and applying stamp powder which is light fast UV resistant pigment with appropriate chemical compounds of desired colour on base concrete after excess bleed water has evaporated using dry shake method @5kg per sqm	406	SMT	**1873.29**	**760555.74**

Including texturing, and covering with plastic sheet (min 200 micron thickness) and also applying two coats of UV-stable,30 % solidsclear sealer @ 150 to 250 gms per sqm using surface roller and protecting from fallingdust,dirt and curring by curring compound / by providing cement vata in cement Mortor 1:8 @ 0.6m x 0.6m center to center, admeasuring 80mm at bottom and 40mm at top withdepth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-incharge or Landscape architect etc. complete. (prior approval of superinteding Engineer will be necessary) SSR 54.01 / 513				
ITEM NO 461 Providing and casting in situ or precast tapering R.C.C. M-20 Semi Barrier type Kerb with gutter (as per IRC 86 1983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff any where in city and redoing the surface as specified and directed by Engineering Incharge. Using Concrete Batching and Mixing Plant SSR 7.05/69	450	RMT	2368.01	1065604.5
ITEM NO 462 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 Should be given by the Manufaturer The work should be done by the Manufacturer Recommended applicator and he should be able to furnish stage wise onsite technical reports from the concerned company technologist SSR 50.79/ 346	2871.88	SMT	390.6	1121756.328
ITEM NO 463 Supply and Installation of 65" Crystal 4K UHD Smart TV Make Samsung,sony Complete Approved MR	5	NOS	156000	780000
ITEM NO 464 Supply and Installation of Computer with monitor 21" Intel i7,Ram 16 GB ,Storage Graphics 4GB capable for Running software for all software ,Storage 1 TB +256 SSD With Keyboard Mouse CompleteApproved MR	5	NOS	273000	1365000
ITEM NO 465 Supply and installation of 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 complete as per specifcation provided by engineer in charge Approved MR	4	NOS	180000	720000
ITEM NO 466 Supply and installation of 7000 Lumens Smart 4K UHD HDR Laser Projector, With 3M:1 contrast ratio, With 8.3 mega pixels utilizing 4K UHD (3840 x 2160) resolution, 7,000 ANSI Lumens Brightness USB port, AV port, computer port with spring loaded white screen connected with necessary copper mains, required switchgears complete as per specifcation provided by engineer in charge Approved MR	3	NOS	810000	2430000
ITEM NO 467 Supplying and fixing Stone sculpture/statues of theme upto 1.8 mt ht of approved size and material complete as per specification provided by engineer incharge Approved MR	1	JOB	1625000	1625000
ITEM NO 468 Providing and Fixing Decorative / Ornamental grills as per design for compound wall Fencing including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc. complete as directed. MCGM R3-CS-SL-13	13550	KG	242	3279100

यापैकी करारनामा लिहून देणार ह्यांची **वरील दराने** निविदा महानगरपालिकेने मंजूर केलेली असून सदर काम हे **30 महिने** मुदतीत पूर्ण करावयाचे आहे.

सदरील मंजुर केलेले काम हे निविदा फॉर्म, निविदा सुचना, विविध शासन निर्णय या मधील तरतुदी तसेच खालील अटी व शर्ती नुसार पुर्ण करुन देण्याची जबाबदारी करारनामा लिहुन देणार यांची राहील.

1) सदर कामामध्ये वापरण्यात येणाऱ्या सर्व बांधकाम साहित्य व वस्तूंचे खरेदी चलन वेळोवेळी महानगरपालिकेच्या संबंधित अभियंता, सल्लागार यांच्याकडे जमा करणे तसेच वस्तूची खात्री करुनच कामात वापरणे बंधनकारक राहील.
2) सदर काम पूर्ण करण्यासाठी कामाचे नियोजन दर्शविणारा बार चार्ट कार्यादेश दिल्यानंतर 07 दिवसांत सादर करणे बंधनकारक राहील.
3) काम सुरु करण्यापूर्वी कामाचे सद्यस्थिती दर्शविणारे Geotag छायाचित्र घेऊन संचिकेत जतन करणे बंधनकारक राहील.
4) सदर कामामध्ये आवश्यक असलेल्या मनपा अभियंता, सल्लागार यांनी निर्देशित केलेल्या बांधकाम

साहित्याची महानगरपालिकेच्या लॅबमध्ये स्वखर्चाने तपासणी अहवाल (Test Report) सादर करणे बंधनकारक राहील व तपासणी अहवाल समाधानकारक असल्यास कामात बांधकाम साहित्य वापरण्यात यावे.

5) सदर कामामध्ये वापरण्यात येणाऱ्या बांधकाम साहित्याचे गौणखनिज रक्कम म्हणून विभागाकडे भरुन त्याचे चलन व कागदपत्र महानगरपालिकेकडे सादर केल्यानंतरच काम सुरु करण्यात यावे.

6) सदर कामासाठी सल्लागार नेमले असल्यास त्यांच्या पर्यवेक्षणाखाली व नियंत्रणाखाली काम करावे लागेल.

7) सदर कामावर नेमलेल्या त्रयस्थ लेखापरीक्षकाकडून कामाची तपासणी करण्यात येणार असून त्यांना सहकार्य करावे.

8) सदर कामासाठी नेमलेल्या त्रयस्थ लेखा परीक्षण संस्थेमार्फत करण्यात येणाऱ्या परीक्षणास त्यांना कागदपत्रे व बांधकाम साहित्य नमूने उपलब्ध करुन देण्यात यावे. सदर त्रयस्थ लेखा परीक्षण अहवाल समाधानकारक असल्यास देयके प्रदानाची प्रक्रीया करण्यात येईल.

9) सदर काम हे महापालिका सल्लागार, कनिष्ठ / शाखा अभियंता, उपअभियंता यांच्या पर्यवेक्षणाखाली व त्यांच्या वेळोवेळी केलेल्या सुचनेनुसार प्रत्येक कामाच्या टप्प्यावर तपासणी करुन झाल्यावरच पुढचे काम हाती घेणे बंधनकारक राहील.

10) कामाच्या ठिकाणी स्वखर्चाने सर्व सुरक्षेच्या उपाययोजना बॅरागेटींग, ग्रीन नेट लावण्यात यावेत तसेच ट्राफीक वॉर्डन इ. व्यवस्था असल्याशिवाय कोणतेही काम करण्यात येऊ नये. रस्त्यावर काम असल्यास वाहतूक विभागाची परवानगी घेण्याची जबाबदारी तसेच बांधकामाचे साहित्यांचा रहदारीस अडथळा निर्माण होणार नाही याची जबाबदारी कंत्राटदाराची राहील.

11) सदर काम सुरु असताना साईटवर रस्ता बंद व इतर वाहतुकीबाबत सुचना फलक स्वखर्चाने लावणे कंत्राटदारास बंधनकारक राहील.

12) सदर कामात खोदाई करताना जलवाहिन्या, सांडपाण्याच्या लाईन, गटारे व केबल्स तोडल्यास सदर विभागाच्या मागणीनुसार भरपाई देणे बंधनकारक राहील. अन्यथा देयकातून कपात करुन संबंधित विभागाकडे जमा करण्यात येईल.

13) सदर कामात कामगारांचा शासकीय विमा काढणे, कंत्राटी कामगार यांची कामगार आयुक्तांकडे नोंदणी करणे, कामगारांना किमान वेतन देणे, सदर वेतन वेळेवर देणे, कामगारांना सुरक्षेच्या दृष्टीने सर्व साहित्य व सामुग्री पुरविण्याची जबाबदारी कंत्राटदाराची राहील.

14) सुरु असलेल्या कामाच्या ठिकाणी निर्माण होणाऱ्या धुळीवर नियंत्रणासाठी, विकासकामांच्या ठिकाणी बांधकाम साहित्य इतरत्र न पसरणे तसेच धुळ पसरु नये म्हणून पाणी (water sprinkling) शिंपडण्यात यावे. बांधकाम, डेब्रीज साहित्य बंदिस्त वाहनामधुन वाहुन नेणे अथवा झाकुन ठेवणे जेणेकरुन हवेतील धुळ पसरणे टाळता येईल, याबाबत दक्षता घेण्यात यावी तसेच साईटवर येणाऱ्या वाहनांचे टायर धुतले जातील याबाबत खबरदारी घेण्यात यावी. तद्नंतरच काम सुरु ठेवणे बंधनकारक राहील.

15) बांधकामाकरीता वापरण्यात येत असलेले बांधकाम साहित्य, ready-mix concrete ची वाहतुक ही बांधकामाच्या ठिकाणी पुर्णत: झाकलेल्या ट्रक / मिक्सर मधून करण्यात यावी.

16) सदर कामे करणेसाठी खोदकामातून निघालेले माती, डेब्रीज, शिल्लक राहिलेले साहित्य व राडारोड पाच तासांच्या आत उचलण्यात यावा.

17) सदरील कामाच्या ठिकाणी काम बंद किंवा सुरु असलेबाबतचे फलक लावणेत यावेत.

18) खोदाई काम करताना डेब्रीज ईतरत्र न टाकता थेट ट्रक / डंपर मध्ये भरुन वाहतूक करण्यात यावी.

19) कामासाठी लागणारे बांधकाम साहित्य हे रस्ता, फुटपाथ, झाडे या मध्ये न टाकता थेट कामात वापरणेत यावेत.

20) कामाची साईट दररोज झाडून साफ ठेवणेत यावी.

21) सदर कामाच्या ठिकाणी / सदर कामामुळे कोणत्याही प्रकारच्या अपघात होवून जिवित अथवा वित्त हानी झाल्यास त्याबाबतची सर्वस्वी जबाबदारी आपली राहणार असून त्यासाठी महानगरपालिका जबाबदार राहणार नाही.

22) कामात वापरण्यात येणाऱ्या बांधकाम साहीत्यांची वेळोवेळी तपासणी करण्यात यावी.

23) सदर कामाची रनिंग देयके, प्रथम व अंतिम देयक तसेच अंतिम देयक सविस्तर मोजमापे, चलन व इतर कागदपत्रासह वेळोवेळी तयार करुन महानगरपालिकेकडे सादर केल्यानंतर महानगरपालिकेकडून तपासणी करुन व आवश्यक नोंदी घेऊन देयक प्रदानाची प्रक्रीया करण्यात

येईल. ज्या कामासाठी सल्लागाराची नेमणूक केली जाईल त्या कामाचे कंत्राटदार यांनी सविस्तर मोजमापासह देयक महानगरपालिकेस सादर केल्यानंतर प्रत्यक्ष जागेवर मोजमापे सल्लागार अभियंता, महानगरपालिका अभियंता व कंत्राटदार अथवा त्यांचा प्राधिकृत प्रतिनिधी समक्ष ज्या वेळेस ठरविण्यात येईल त्या वेळेस घेण्यात येतील. तसेच सदर वेळेस कंत्राटदार यांचा प्रतिनिधी उपलब्ध नसल्यास सल्लागार यांचेकडून सादर केलेली मोजमापे अंतिम समजून सदर मोजमापे बंधनकारक राहतील.

24) सदर कामाकरीता कामाच्या साईटवर अनुभवी अभियंते नेमण्यात यावे व त्यांचे पर्यवेक्षणाखालीच काम करण्यात यावे. अभियंता उपलब्ध नसल्यास काम करु दिले जाणार नाही. तसेच महानगरपालिकेत सदर कामासंबंधी पत्रव्यवहार व अधिकाऱ्यांशी संपर्क करुन कंत्राटदाराने स्वत: अथवा प्राधिकृत केलेल्या प्रतिनिधी यांनीच करणे बंधनकारक राहील. त्रयस्थ व्यक्तींना हस्तक्षेप करु दिला जाणार नाही.

25) सदर कामामध्ये परस्पर कोणताही बदल करण्यात येऊ नसे. तसे केल्यास व परस्पर काम केल्यास सदर काम काढून टाकून त्याचे देयक प्रदान केले जाणार नाही याची नोंद घ्यावी.

26) वरील अटीशर्तींपैकी अनु क्र. 7 ते 25 नमुद कार्य न केल्यास खालीलप्रमाणे शास्ती करणे.

प्रथम खेपेस - रु.2000/-

व्दितीय खेपेस - रु.5000/-

तृतीय खेपेस काम / कंत्राट रद्द करणे व काळया यादीत समावेश करणे / काम बंद करण्याची नोटीस देणे.

27) महाराष्ट्र शासन, शासन निर्णय क्रमांक :- मनपा-2024/प्र.क्र.221/नवि-16(ई-815728) दि.05 सप्टेंबर 2024 अन्वये सदर कामास तत्वत: मान्यता देऊन सदर कामासाठी रु.2.00 कोटी रक्कम मंजुर केल्याने रु.2.00 कोटीच्या मर्यादेत काम करणे आवश्यक आहे. पुढील काम टप्प्याटप्प्याने निधी मंजुर झाल्यानंतर करावयाचे आहे. त्यानुसार निधी उपलब्धतेप्रमाणे टप्प्याटप्प्याने कार्यादेश देण्यात येतील. शासनाकडुन मंजूर निधी व्यतिरीक्त काम केल्यास सदर कामास व त्याचे देयक प्रदानास महानगरपालिका जबाबदार राहणार नाही.

28) महानगरपालिकेमार्फत कंत्राटदाराकडून कपात करण्यात आलेल्या विविध कराच्या रक्कमा, मुद्रांक शुल्क इ. कमी आकारल्यास तसेच कंत्राटदारास दिलेल्या पेमेंट (देयक) बाबत भविष्यात लेखापरीक्षकांनी आक्षेप घेतल्यास चुकीने ज्यादा प्रदान केलेली रक्कम वसूल करण्याचा अधिकार महानगरपालिकेस राहील व सदर ज्यादा दिलेली रक्कम करारनामा लिहून देणार यांनी महानगरपालिकेस तात्काळ परत करावी लागेल.

त्याचप्रमाणे निविदा सुचना व निविदा फॉर्म मधील सर्व अटीशर्ती बंधनकारक राहतील.

वरील सर्व अटीशर्ती आम्हास मान्य असून त्यानुसार सदर काम पूर्ण करुन देण्याची जबाबदारी आमची राहील.

सदर करारनामा आज दि.02/06/2025 रोजी चांगल्या मन:स्थितीत लिहून दिला असे.

करारनामा लिहून घेणार

कार्यकारी अभियंता (साबां/वि)
मिरा-भाईंदर महानगरपालिका

करारनामा लिहून देणार

M/S. GAJANAN CONSTRUCTION
Proprietor

मे. गजानन कंन्स्ट्रक्शन

(दिपक खांबित)
शहर अभियंता
मिरा-भाईंदर महानगरपालिका

अतिरिक्त आयुक्त
मिरा-भाईंदर महानगरपालिका

सन २०२५ /२०२६ करारनामा नोंदवही
अनु क्र ६० दि.३०/०६/२५ अन्वये
नोंद करणेत आली (एकूण पाने २ ते ३८)

महापालिका सचिव
मिरा भाईंदर महानगरपालिका

मिरा भाईंदर महानगरपालिका

विभागाचे नाव :- बांधकाम / विद्युत विभाग

कामाचे नाव :- मिरा भाईंदर महानगरपालिका हद्दीतील स्व. प्रमोद महाजन कलादालनाचे उर्वरित काम करणे. (मुलभुत सोई सुविधांचा विकास)

निविदा मंजुरी पत्र क्रमांक :- जा.क्र.मनपा/साबां/7367/2024-25 दि.19/03/2025

निविदा रक्कम :- रु.20,03,68,741/-

भराव्याचे मुद्रांक शुल्क :- रू.6,00,200/-

प्रत्यक्ष भरणा केलेले मुद्रांक शुल्क :- रू.6,00,200/-

प्रमाणित करण्यात येते की, वर नमुद माहिती योग्य असुन, सदर कामी शासन दप्तरी भरणा करावयाची मुद्रांक शुल्काची संपूर्ण रक्कम भरणा केलेली आहे. सदर कामी भरणा केलेल्या रकमेचे चलन दुबार वापरण्यात येणार नाही व सदर रक्कमेचा परतावा घेण्याचा आम्हास कोणताही अधिकार नाही आणि जर आम्ही सदरकामी भरणा केलेल्या मुद्रांक शुल्काची रक्कम परतावा म्हणून परस्पर काढून घेतल्यास, आम्ही मुद्रांक महसुल अधिनियमानुसार कायदेशीर / फौजदारी कारवाईस पात्र असणार आहोत.

M/S. GAJANAN CONSTRUCTION

Proprietor

ठेकेदाराचे नाव, स्वाक्षरी व शिक्का