	PROPOSED RESIDENCE DEVELOPMENT AT MYLAPORE, CHENNAI OVERALL SUMMARY	
S.No	Description	Amount
1	ARCHITECTURAL	
2	STRUCTURAL	
3	EXTERNAL WORKS	
4	SUPPLY AND INSTALLATION OF PLUMBING & SANITARY FIXTURES WORKS INCLUDING TREATMENT PLANTS	
0	SUPPLY AND INSTALLATION OF ELV SYSTEM(IBMS & BMS)	
6	SUPPLY AND INSTALLATION OF ELECTRICAL WORKS	
	TOTAL	
lote:		
ST 18	% Extra	



	DSR	PROPOSED APPARTMENT AT CHENNAI - INDIAN BANK			- 24 3 10 10		
. No	CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figures	Remarks
		ARCHITECTURAL WORKS					
١.		Masonry Works					
1	NON DSR	Providing and fixing of 290mm thick solid block work in straight or curved walls, piers and architectural features at all levels using approved solid blocks of density not less than 1,800 (ga/cum, minimum average compressive strength of 4-5 Nimm2 as per IS 2185 (Part 1): 2005 in cement mortar 1:6 including curing, scaffedding, staging, packing the residual space between masony & other structural members like columns, beams, slabs etc., providing openings as directed and finishing neally around the same, the cost of all materials, labour, equipment and machinery, work at all leads and lifts, loading and unloading, transportation, and all other incidental charges etc., complete. (Location-parapet wall)	19.72	m³			
2	6.47	Providing and laying autoclaved serated cement blocks missonry with 200mm thick AAC blocks with approved block laying polymer modified ashesive mortar of missonry all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).					
		200mm AAC Block	158.26	m ^a			
	NON DSR	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry 150 mm/230 mm/300 mm thick with Grade-1 blocks of density 551-650 kg/m², conforming to IS 2185 (Part 3), in superstructure above plinth level up to floor V level with RCC bands at sill and lintel levels, using approved polymer-modified adhesive morter, all complete as per the direction of the Engineer-in-Charge.	0.10.01				
-		100mm AAC Block	840.24	m²		-	
	13.4.1	Providing and applying 12mm thick plaster in cement mortar mix ratio CM 1:4 (1 cement: 4 sand), to internal surfaces of concrete and miscony work; Including raking out joints, hacking concrete surfaces and applying approved chemical bonding agent and applying ascratch coat over concrete surfaces by bonding? Jambeshe chemical coat as directed by approved marufacturer to create a key, cleaning 4 grooving deep junctions of concrete & masonny, grounding then back by mortar mixed with non-whinking compound along with packing of clean, fresh equare aggregate also providing and fixing 20 gauge GI chicken mesh @ 150 mm wide to junctions of concrete and miscony, preparing jambs, sells, grooves, bands, wattes, rounding of concrete, etc. all complete as per architectural drawings, specifications and finished emonth with wooden tack, wattes, and lifts, doing independent double-legged scaffolding, cleening of surfaces, curing, etc. complete as per specification. (Internal Wall)	4,106,07	m²			
	13.11	Providing and applying minimum 18mm thick double coat cement sand plaster; first coat to be 12mm thick cement and mortar of mix ratio CM 1:5 (1 cement: 5 sand) including adding 2% by weight of cement approved waterproofing compound of approved manufacturer, second coat to be 6mm thick in cement sand mortar of mix ratio CM 1:3 (1 cement: 3 sand), finished sand face or as required to receive specified architectural external finish to correct line, plamb and face to be categorized and school corrects surface applying chemical adhesive coating and a scratch/dash coat as a positive bond, curing the same, racking out junctions of masonry and concrete, then pointing and grouting using non-shrinking compound, joints grouted by pressing square crushed stone, doing independent double legged scaffolding etc. (External Wall)	1,058.69	m²		0.00	
	13.7,1	Providing and applying 10mm thick ceiling plaster in slab & Beam in cement morter mix ratio CM 1:3 (1 cement: 3 sand), to internal surfaces of concrete work; including hacking concrete surfaces then applying approved chemical bonding agent and applying a scratch coat over concrete surfaces by bonding / adheathe chemical coat as directed by approved manufacturer to create a key, cleaning / growing deep junctions of concrete & macrony, growing then back by morter mixed with non-shirking compound along with packing of clean, fresh squared aggregate, preparing grooves, pattas, wattas, rounding of corners, etc. all complete as per architectural drawings, specifications and finished smooth with wooden rundhalet, or as specification and specification.	632.52	m²		0.00	
T	U, I	Total for Masonry Works	an in			0,00	
		The state of the s					
1	NON DSR	FLOORING FINISHES Providing and laying approved first quality, colour, design and shade Full Body vitrified Tiles 600mm x 1200mm of approved make (confirming to IS 15622, water absorption less than 0.05%) flooring in pattern as detailed in drawing. Tile to be bedded over milinium 20mm thick cement sand mortar in viratio 1.6 (cement: 6 coarse sand) including cleaning and prespring the surface for bedding, spreading neat cement shurry by using milinium cement about 2 Kg/Sgm over cleaned surface and spreading neat cement pasts using minimum cement about 4.5 Kg/Sqm over cement mortar bad, joints to be cleaned and grouted with matching colour approved quality ploymer based readymade grout, curing, cleaning, to required line, level, protecting till handing over, (Basic Price Rs. 1209M Excluding GST) (Make: Simposit) (Epoxy Crout)	779.16	m²		0.00	
	NON DSR	Providing and laying approved first quality, colour, design and shade Full body Vitrified Tiles 800 x 1200 mm of approved make (confirming to IS 18522, water absorption less than 0.05%) flooring in pattern as detailed in drawing. Tile to be bedded over minimum 20mm thick cement sand morter mix ratio 1:6 (1 cement: 5 coarse sand) including cleaning and preparing the surface for bedding, spreading next cement study by using minimum cement about 4.5 (Kg/Sgm over cleaned surface and spreading next cement pasts using minimum cement about 4.5 (Kg/Sgm over cleaned surface and spreading next cement pasts using minimum cement about 4.5 (Mg/Sgm over cleaned surface and spreading next cement pasts using minimum cement about 4.5 (Mg/Sgm over cleaned surface and spreading next cement pasts using minimum cement about 4.5 (Mg/Sgm over cleaned surface and spreading next cement pasts using minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) and spreading minimum cement about 4.5 (Mg/Sgm over cleaned surface) a	224.11	m²		0.00	1
	NON DSR	Providing and laying 18mm (+/f.) 1mm thick approved machine cut, machine polished Granite stone flooring as per drawing. Treads in one piece or as directed to full length of step to be rounded at front and all exposed edges machine polished. Further treads to have 2 nos 65 mm x 5mm deep crows on top 91 front or as detailed in drawing. Treads 8 Riser to be hedded in connent mortar minimum 20 mm thick mix ratio 1:6 (1 center) to 8 mm the sand) including preparing and cleaning surfaces, spreading cement sturry using minimum cement 2 kg/sgm over prepared surface and 4.5 kg/sg m over bedding, joints to be cleaned and grouted with matching colour approved readymade grout, curing, cleaning, polishing all complete at all heights (Bester Price Re. 160/3ft Excluding GST) (Location - Stafrcase)	136,83	m²		0.00	
	NON DSR	Providing and laying 18mm (+/1) 1mm thick approved machine out, machine polished Granite stone flooring as per drawing. Treads in one piece or as directed to full length of step to be rounded at front and all exposed edges machine polished. Further reads to have 2 nos of 5mm x 5mm deep groves on top at front or as elizable in drawing. Treads 3 Riser to be bedded in centern morter minimum 20 mm bries (mix ratio 1:6) (1 centers): 6 M-sand) including propering and cleaning surfaces, spreading cement surry using minimum cement 2 (kg/sqm over prepared surface and 4.5 kg/sqm over bedding, inclusite to be cleaned and grouted with matching colour approved readymade grout, curing, cleaning, polishing all complete at all heights (Basic Price Rs.180/3ft Excluding GST) (Location - Lobby)	121.63	m²		0.00	
	NON DSR	80mm thick cement concrete flooring with mix of Grade M20 using vacuum dewatering technique and power trowelling to obtain antiskid finish. This includes cost of cement sturry, including cutting 4mm wide and 20mm deep grooves on the finished floor at the specing of 1.40 m x 1.40 m (Panel size not more than 2 sqm in area and not more than 2.00 m in length) and filling the groove with pavement grade PU sealant etc. all complete including the cost of masking large all complete as per direction of Engineer - In- charge, Finally finished with anti-static flooring / PVC flooring of min 2mm thickness at the time of commissioning of the building.	78.00	m²		0.00	
	NON DSR	Polishing Concrete Car Parking - Abrasion Resistance AR3 Layer: Charges for Supply and Installation of Abrasion registance layer (AR class 3) of 1 to 2 mm thickness using normatalic colored floor hardwares at the recommended desage of 4 kgs / s.m using dry shake application-Colour: Comment (AR) and the Color of the	78.00	m²		0.00	18
	NON DSR	Screed Concrete: Minimum 50 mm thick concrete pavement of design mixed concrete. The concrete shall be laid and finished with screed board vibrator and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in- charge.	1,072.10	m²		0.00	
)	NON DSR	Marble top Supply and fixing Nano white Marble counter top and counter top shall be finished with polishing and full noising at all exposed egdes. Finished with	11.50	sqm		0.00	
)	NON DSR	necessary adhesives.(Pogla) Grantite top supply and fixing table top and counter top shall be finished with 18mm thick approved grantite with all side full bull notising at all exposed egdes of the	75.00	sqm		0.00	
		Prantite. Dinning crockery storage, wash basin counter. Kitchen island counter (spt) Total for Flooring Finishes	I MI			0.00	
		WALL CLADDING					
	NON DSR	Providing and laying Full body Vitrified Tile cladding of size 60mm x 600mm as detailed in drawing. Tile to be laid using the approved adhesive and to required line, level; joints to be cleaned and grouted with matching colour approved quality readymade grout, curing, cleaning, polishing, protecting etc. all complete at all heights and leads to the entire satisfaction of the Engineer-in-charge (Basic Price Rs.80/SR Excluding GST) (Location - Kitchen/Utility) (Make: Simpolo)	231.91	m²		0.00	
	NON DSR	Providing and laying Full body Vitrified Tile cladding of size 200mm x 1200mm as detailed in drawing. Tile to be laid using the approved adhesive and to required line, level; joints to be cleaned and grouted with matching colour approved quality readymade grout, curing, cleaning, polishing, protecting etc. all complete at all heights and leads to the entire satisfaction of the Engineer-in-charge (Basic Price Rs.60/Sft Excluding GST) (Location - Toilet) (Make: Kajaria)	583.93	m²		0.00	
	NON DSR	supply and fixing Granite claddind shall be finished with 18mm thick approved granite with all side full bull noising at all exposed egdes of the granite with necessary adhesive.	32.00	m²		0.00	
		with necessary adhesive. Total for Wall Cladding	LVT	TI E		0,00	
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& Estate Dept.

	Total for Lift works Total for Architectural works		1900 a	 0.00
NON DSR	Provide and install a machine-noom-less (MRL) passenger elevator suitable for a G+5 floor building, with a rated capacity ranging from 630 kg to 1000 kg (6 to 19 persons). The elevator shall operate at a speed of up to 1,5 meters per second and use a gestless traction drive system with a permanent reagnet synchronous motor (PMSM) for energy-efficient operation. The travel height shall accommodate up to set stops, with door length semanting 1100 mm in width and a height between 2100 mm to 2400 mm, as per the architectural design. The elevator cabin and doors shall be Digitally from stainless steel particles of the proper stainless of the proper st	1	Nos	0.00
	LIFT WORKS			
	Total for Painting Works			0.00
	Providing and applying Royal emulsion paint of approved make and colour conforming to IS in two costs (surface and finish acceptable to the EC/Client must be achieved by the contractor and any additional costs if required shall be at the cost of the contractor); over 2 costs of suitable Imm thick putly of approved manufacturer including preparing surfaces, filling up with white cement based putly, binder; cleaning and making the surface dust-free, applying a sealer or primer coat of paint as recommended by approved paint manufacturer, applying two copy faint (of approved make and shade), required scaffolding, cleaning and protecting till the handing over of site to the Client all complete to entire satisfaction of the EC/Client with required scaffolding, leads and lifts at all levels (Ceilling)	1,674.88	m²	0.00
NON DSR	Providing and applying Exterior Emulsion Point of approved make and colour conforming to IS in two coats (surface and finish acceptable to the EC/Clont must be achieved by the contractor and any additional coats if required shall be at the cost of the contractor) of newly plastered wall surface with ready mixed paint of first class quality and approved colour over a priming cost with over textured finish including through scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., required scaffolding, leads and lifts at all levels. { Ultima Protek - Weather Shield } (External Wall)	1,058.69	m²	0.00
	Providing and applying Royal emulsion paint of approved make and colour conforming to IS in two coats (surface and flinish acceptable to the EC/Client must be achieved by the contractor and any additional coats if required shall be at the cost of the contractor), own? 2 coats of suitable 1mm thick putly of approved manufacturer including preparing surfaces, filling up with white cement based putly, binder, cleaning and making the surface dust-free, applying a sealer or primer coat of paint are recommended by approved apaint manufacturer, applying two copy paint (of approved make and shade), required scaffolding, cleaning and protecting till the handing over of site to the Client all complete to entire satisfaction of the EC/Client with required scaffolding, loads and lifts at all levels. (Internat Wall)	4,321.72	m²	0.00

Note 18% GST Extra





SI. No	DSR CODE	DESCRIPTION	QTY	UNIT	RATE IN FIGURES	AMOUNT IN FIGURES
		Existing Building Dismantling Works				
	Non DSR	Demolition Of Existing Building: Demolition of existing building using Machine/Manually Including all Items Including Foundation and rate should include lead, lift, carting away and clearing of the debris from the site, etc., complete, as per drawing.				
		Credit charges for demolition and disposat of old building up to foundation level	-1.00	L.S		
		Charges for Steel Barrication				
	New DCD	Vertical pipe size 2 inch square tube 2mm thickness. Horizontal	6,130.00	Sqft		
	Non DSR	pipe size 1 1/4 inch square tube 2mm thickness. Galvanized sheet thickness .47 mm.	0,130.00	Sqit		
		Sub Total for Demolition work				
		Total Demolition works				
		STRUCTURAL WORKS				
A		SUB STRUCTURE Pile Work				
1.00	DSR 20.2A	Boring, providing, and installing bored cast-in-situ reinforced cement concrete piles of M-30 grade concrete of the specified diameter and length below the pile cap, designed to carry a safe working load not less than specified. The work shall exclude the cost of steel reinforcement but shall include the cost of boring using bentonite stury and providing temporary casing of appropriate length for setting, installation, and subsequent removal. Piling shall be carried out using a crawler-mounted, the elescopic boom hydrautic piling rig only; the use of truck-mounted rotary rigs, tube well boring machines, or similar equipment toly prohibited. The scope includes excavation, removal and disposal of excavated carrier with all lifts and leads, cleaning of boreholes, ternic concreting, and ensuring verticality and alignment as per specifications. The length of the pile for payment purposes shall be measured up to the bottom of the pile cap. The rate also includes chipping of the pile heads after concreting to the required level, removal of debris, and preparation for pile cap construction, all complete as per drawings and technical specifications.	412.50			
		Sump area Piles - @ 27m Depth Drive Way area - @ 30m Depth	780.00	m m		
2.00	DSR 20.6.3.1	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismaniling of test cap after test etc.	2.00	nos		
3.00	DSR 20.8.2	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile	QRO	nos		
4.00	DSR 20.9	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results. all complete as per direction of Engineer-In-charge.	41.00	nos		
В		Total for Reinforcement works EXCAVATION AND FILLING				
	00 NON DSR F. 1 3 5 F. W. 00 M. 7 P.	Earthwork In excavation for foundations, plinth beams, cess pits, trenches, drains etc. In all kinds of soil including medium dense clay and medium stiff clay up to the required depth from the existing ground level to the required line, level and grades in both dry and wet conditions including shoring, strutting, bailing, pumping out water from all sources, dressing of sides, ramming of bottom and disposal of excavated materials up to a lead of 1.50 KM including spreading, levelling and compacting, as directed by Engineer-in-Charge.				
1.00		From average ground level to 1.5m depth	408.45	m3		
		1.50 m to 3.00 m depth	408.45	m3		
		3.00 m to 4.50 m depth	54.46	m3		
2.00		Filling with selected, suitable excavated earth (excluding rock) already available at site in plinths, in layers each not exceeding 200mm in depth, breaking clods, watering, compacting each layer with vibratory compactor and at heacessible places with wooden/siteel rammers to echieve 95% proctor density at optimum moisture containt, dressing up embankments; if required, bailing/pumping out of water to keep site dry while back filling; costs includes transportation of all materials, lebour, machinery etc. complete as per direction and entire satisfaction to the Entigineer-in-change.	C			
а		Available at Site	753.00	m ³		
а	NON DSR	Providing end filling in foundation and plinith and under floors and in trenches etc., with Brought out Earth, layers of 150mm thick including watering, remming with power rammers and consolidating dressing etc., with all leads complete. Measurement shall be as per consolidated depth.1 x b x h.	528.00	m ³		
3.00		Providing and Injecting chemical emulsion for Pre-construction anti-termite treatment (should be carried out in accordance to I.S No.6313 (Part II) 1981) and create a chemical barrier under and abround the column pits, well trenches, basement excavation, top surfaces of plinth filling, luction of well and floor, along the external perimeter of building, expension joints, surrounding of pipes, conduits etc. with all leads complete (pinth area of the building at Ground floor only shall be measured). The treatment is to be guaranteed for a period of 10 years by PCI approved/listed operator from date of completion and is to be executed by an approved specialised agency, with aqueous emulsion having concentration 1.499 with Premise 350 SC (Imidachloprid 30.3% SC) solution and water i.e. 0.07% solution	528.00	m²		
4.00	NON DSK	Sheet Shoring-Providing and fixing ISMB 350 beams (vertical)shell be inserted up to required depth of 6.00 m at a regular interval of 3m o/c at the earmarked place of work. Below the 6m depth level, the beam section to be inserted by making 500mm dia pil and after inserting the beam section, the pit gaps to be filled with M15 grade of Concrete. On the outer surface (Horizontal) channel of ISMC 175 to be fixed at 1.2m specing perpendicular to the ISMB beams at length the boundary of about 5.00 m deep. Further this channel sections should be braced with ISA 60°50°50mm (Diagonal support system) and finally Corrugated sheets of 6mm this to be inserted to the required depth of 3.5m, former support system ISMB 200 beam sections at interval of 6m may be installed by annothing with declared and concrete block of size 600°500°45 of 8th level deepth etc., all comprehens in the ITMS 100°500°500°500°500°500°500°500°500°500°	80.00	m		
5.00		Disposing off all excess materials beyond the initial lead of 50m and upto 2 km out of site including the cost of labour, cost of equipment and machinery hire charges, lead & lift loading and unloading, transportation, levelling the excavated material at disposal yard and all other incidental charges etc. complete. The work shall be carried out as per the directions of the Engineer in charge of the works.	QRO	Cum	250.00	
		Total for Excavation and Filling works				
С		CEMENT CONCRETE WORKS				
		Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sourcess. Portland Pozzidana/Ordinary Portland Slag cement/proportions as per Its S10 to accelerate / retard setting of concrete to incommended improve durability and workeality without impairing settengly, including pumping of concrete to still pring, curing, carriage for all leads; but excluding of the engineer-in-charge; for the following grades of concrete, the cost of centering, shuttering and finishing as per direction. Concrete of M10 grade with milinium amement content of 220 kg (zum.				
	DSR 4.20.1.1	Footings, Plinth Beams & Below the Grade Slab	19.00	m ³		
- 7		Total for Cement Concrets works				HV NE
D		REINFORCED CONCRETE WORKS				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozobana / Ordinary Portland Portland Slag cement, recommended proportions as §19103 to accelerate / relard settingsedmixtures in of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads, but excluding the cost of reinforcement as per direction of the engineer-in-charge, for the followingcentering, shuttering, finishing and grades of concrete Concrete of M30 grade with minimum cement content of 350 kg (cum				
		Raft & Pile Cop Column Stump	136.00 12.11	m³ m³		
	DSR 5.33.1.2	Seament Column Besement Well	12.11 32.55	m ³		
	DON 0.03.1.2	Still Floor Slab	18.41	m ³		
		Still Floor Beam Staircase	13.32 2.63	m ³		
		Total for Reinforced Concrete works - Substructure				
		Print of Expenditure Estate Dept Anyaperation				

E		FORMWORK				
		Providing, fabricating, erecting form work and deshuttering at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply with adjustable sleel props of acceptable Staging system and with sufficient bracing as approved by consultant. Cost to include				
		designing of proper form work and staging system to suit the requirements, Submission of design calculations and shop drawings for approval, sealing the joints with				
		heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings / cutouts / pockets, applying deshuttering				
		chemical, Deshuttering as approved by the consultant etc., complete at all levels, double floor heights and profiles.				
_		Raft & Pile Can	77.00	m ²		
-		Basement Column	128.13 96.10	m ²		
	NON DSR	Basement Well	325.49	m ²		
-		Still Floor Slab	122.73	m²		
	1,0	Stilt Floor Beam	124.54	m²		
		Staircase	17.55	m ²		
-		Total for Formworks - SubStructure		-		
F		REINFORCEMENT WORKS				
		Providing supplying, collecting, fabricating & fixing in position reinforcement for RCC work with high yield strength ribbed cold twisted for steel (HYSD-Fe550-D) bar of				
		various diameters and grade of steel at all levels conforming to 15 specification including transporting from yard, decoiling, straightening, cutting, bending,				
		hoisting/Lifting, fabricating, and placing in position according to drawings and binding the reinforcement with GI annealed binding wire of double fold of 18 gauge and				
		providing PVC/Concrete cover blocks, for placing the reinforcements in position and for maintaining the cover specified and/or according to relevant IS codes. The quantities including of dowels reinforcement,				
-			_			
		Grade of reinforced steel - Fe 550-D Grade Raft & Pile Cap (including chipping, carting & disposal)	10,880.00	Κα		
		Column Stump	2,664.02	Ka		
-	DSR 5.22.6	Basement Column Basement Wall	2,664.02 3,255.00	Kg Kg		
		Stilt Floor Slab	1,380.71	Kg		
-		Stilt Floor Beam Staircase	2,664.00 394.95	Kg Kg		
		Santase Pile	23,878.15	Ka		
-		Total for Reinforcement works - SubStructure		-	No.	-2 16 14
	WIE U.S.	Total for Structural works Sub Structure SUPER STRUCTURE				
13		REINFORCED CONCRETE WORKS - Super Structure				
		Providing and laying in position ready mixed M-30 grade concrete for reinforced cement concrete work, using cement content as per approved design mix,			- 8:	
		manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mixed design of providing the cost of centering.				
A		design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of concrete, improve				
		workability without impairing strength and durability as per direction of the Engineer-in-charge. Concrete of M30 grade with minimum cement content of 350 kg				
		/cum .				
		M30 Grade Concrete				
-		Columns & Lift Wall & Shear Wall Ground floor to Terrace Floor -Column	91.90	m ³		
		Roof Beam				
		Ground floor to Terrace Floor	135.14	m ³		
		Roof Slab Terrace Floor	178.26	m ³		
	DSR 5.33.2.2					
_		Flights and Steps	18.43	m ³		
-		Lintels Beam	18.00	m ³		
-		OHT & HEADROOM	10.00	-"-		
		Slab, wall & beam	19.09	m ³		
-	_	Tatal for Dilliformad County works				
В		Total for Reinforced Concrete works FORMWORK				
_		Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column				
		pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with				
		welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, faild over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at				
-		suitable intervals etc. complete in all floors complying with standard specification.				
		Providing, fabricating, erecting form work and deshuttering at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic				
		coated, marine resistant waterproof ply with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant. Cost to include				
		designing of proper form work and staging system to suit the requirements, Submission of design calculations and shop drawings for approval, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings / cutouts / pockets, applying deshuttering				
		chemical, Deshuttering as approved by the consultant etc., complete at all levels, double floor heights and profiles.				
		Columns & Lift Wall & Shear Wall				
		Ground floor to Terrace Floor - Column	976.99	m²		
-		Roof Beam	1,227.80	2		-
-		Ground floor to Terrace Floor Roof Slab	1,227.00	m ²		
		Ground floor to Terrace Floor	1,188.38	m²		
	NON DSR	Staircase				
_		Flights and Steps	122.87	m²		
-		Lintels Beam	80.00	m²		
		OHT & HEADROOM	30,00	141		
		Slab, wall & beam	185.30	m ²	_	
-		Total for Formworks				
С		REINFORCEMENT WORKS				
		Providing supplying, collecting, fabricating & fixing in position reinforcement for RCC work with high yield strength ribbed cold twisted for steel (HYSD-Fe550-D) bar of				
	DOC 5 CT	various diameters and grade of steel at all levels conforming to IS specification including transporting from yard, decoiling, straightening, cutting, bending,				
- 1	DSR 5.22.6	hoisting/Lifting, tebricating, and placing in position according to drawings and binding the reinforcement with GI annealed binding wire of double fold of 18 gauge and providing PVC/Concrete cover blocks, for placing the reinforcements in position and for maintaining the cover specified and/or according to relevant IS codes. The				
		quantities including of dowels reinforcement				
			78,950.49	Kg		
1.00		Grade of reinforced steel - Fe 550-D Grade	70,500.45		114	
			76,530.45			
D		WATERPROOFING WORKS	70,000.40			-
		WATERPROOFING WORKS W//P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1 2mm thick fully bonded Preapplied HDPE using Fosror Membrane HDPE-P Standard with a film of				
D		WATERPROOFING WORKS WP membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Prespiled HDPE using Fosor Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fluy with the membrane on Raft Slab/Solfung/Grade slab as shown in drawing. The				
D		WATERPROOFING WORKS WIP membrane system—Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosro. Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft Slab/Stich Slab/fooling/Grade slab as shown in drawing. The waterproofing membrane shall comply with BS 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 6471 - 2017 for Protection of structures against water from the				
D		WATERPROOFING WORKS WIP membrane system-Basement Positive Side Watergroofing Horizontal surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosrox Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows pound concrete to bond fluy with the membrane on Raft SlabSitch SlabFooting/Grade slab as shown in drawing. The waterproofing membrane shall comply with BS 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed tops of 100mm				
D	3.031/0	WATEPROOFING WORKS WIP membrane system—Basement Positive Side Waterszoofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosro Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane of arth slab/stich slab/fooling/Grade slab as shown in drawing. The waterproofing membrane shall comply with BS 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471: 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the mamurlacturer's instructions with and shall provide an intimate bond to resist water migration. The fully				
D	0.03110	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosro Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fluy with the membrane on Raft SlabSidts SlabFooting/Grade slab as shown in drawing. The waterproofing membrane shall comply with BS 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overtaps of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with mamufacturer's instructions with and shall provide an intimate bond to reside stream impration. The fully bonded HDPE membrane is lossed-juicd on the PCD febre casting of the RCCT attals of Footings/Sibth Sabbes shown in drawings or wherever applicable for. The				
D		WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Foorce Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSixtich Slab/footing/Crade slab as shown in drawing. The waterproofing membrane shall be installed in 88.8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side ovariage of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intilinate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system				
D	NON DSR	WATERPROOFING WORKS WP membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Prespiled HDPE using Fosro. Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond flully with the membrane on Raft SlabSitch SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall be supplied with 88 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is lossely-laid on the PCC before casting of the RCC raft slab Foolings/Siths Isables shown in 1890(sable shown in specificable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system: The fully bonded PDPE Prespiled HDPE sheet waterproofing membrane shall have following typical properties:		Sqm		1
D	NON DSR	WATERPROOFING WORKS WIP membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosroc Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows pound concrete to bond flully with the membrane on Raft SlabSidts SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall be supplied with 88 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is lossedy-laid on the PCC before casting of the RCC raft slab - 1 Foolings/Slitch Isables shown in displayed or wherever applicable fet. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1 1) Membrane thickness: 1,2mm 2) Tensile stemptiff film; > 21 Mpa (ASTM D412)		Sqm		1
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterscofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1 7 2mm thick fully bonded Preapplied HDPE using Fosco Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft Slab/Solta Slab/footing/Grade slab as shown in drawing. The waterproofing membrane shall comply with ISB 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the mamufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/iss shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preappled HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thistness: 1.2mm 2) Tensile strength (film): >21 Mpa (ASTM D412) 3) Elengation -400% (ASTM D412)		Sqm		
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Force Membrane HDPE-P Standard with a film of pressure sensitive adhesive end allows poured concrete to bond flully with the membrane on Raft SlabSitch SlabFooting/Grade slab as shown in drawing. The waterproofing membrane shall occupily with 8S 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed type of 100mm wide. Membrane shall be installed in shirt accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is lossesyl-id and the PCD before casting of the RCC raft slab / Footings/Stick Islabfes shown in drawings or wherever applicable left. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preappled HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thickness: 1.2mm 2) Tensile strength (film) : >21 Mpa (ASTM D412) 3) Eknagation : 400% (ASTM D412) 3) Eknagation : 400% (ASTM D412) 4) Peel adhesion to councrete > 8801Vm (ASTM D 903 Modified)		Sqm		
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Foorce Membrane HDPE-P Standard with a film of pressure sensitive adhesive end allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabProofing/Crade slab as shown in drawing. The waterproofing membrane shall comply with 18.8 1902 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side oversips of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Foolings/Statich Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thistness: 1.2mm 2) Tensile strength filmip: 221 Mpa (ASTM D412) 3) Eknagation -4009K (ASTM D412) 4) Peel adhesion to concrete > 880N/m (ASTM D 903 Modified) 5) Puncture Resistance > 700N (as per ASTM E154) 6) Resistance to Mydrostatic pressure: > 70m (ASTM D535)		Sqm		1
D	NON DSR	WATERPROOFING WORKS WIP membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosroc Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows pound concrote to bond fully with the membrane on Raft SlabSidts SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall allows pound concrote to bond fully with the membrane on Raft SlabSidts SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is lossed-juicid on the PCC before casting of the RCC raft slab -f Foolings/Slitch Isables shown in displayed or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thickness: 1,2mm 2) Tensile strength film: > 21 Mpa (ASTM D412) 3) Elongation -400% (ASTM D412) 3) Elongation -400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Resistance to tydrostatic pressure: >70m (ASTM D535) 7) Low temperature flexibility: <-25°C, no crack (ASTM D1970)		Sqm		
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Foorce Membrane HDPE-P Standard with a film of pressure sensitive adhesive end allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabProofing/Crade slab as shown in drawing. The waterproofing membrane shall comply with 18.8 1902 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side oversips of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Foolings/Statich Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thistness: 1.2mm 2) Tensile strength filmip: 221 Mpa (ASTM D412) 3) Eknagation -4009K (ASTM D412) 4) Peel adhesion to concrete > 880N/m (ASTM D 903 Modified) 5) Puncture Resistance > 700N (as per ASTM E154) 6) Resistance to Mydrostatic pressure: > 70m (ASTM D535)		Sqm		
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterscofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17 zmm thick fully bonded Preapplied HDPE using Fosoc Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft Slab/Scita Slab/footing/Grade slab as shown in drawing. The waterproofing membrane shall comply with 85 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and ent lags using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the mamufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before ceating of the RCC raft slab / Footings/Stitch Slab/iss shown in drawings or wherever applicable etc. The membrane waterproofing system The fully bonded Preappled HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thinkness: 1,2mm 2) Tensies strength film; > 21 Mpa (ASTM D412) 3) Elengation -400% (ASTM D412) 3) Elengation -400% (ASTM D410) 6) Resistance > 100% (ASTM D410) 6) Resistance > 100% (ASTM D410) 6) Resistance > 10% (ASTM D410) 6) Resistance > 10% (ASTM D401) 7) Low temperature flexibility : <25°C, no crack (ASTM D1970) 8) Linear Dimemsional charge: 0.1% (ASTM D404) 8) Side overfaps shall be a minimum of 75 mm on the selvedge and end overfaps of minimum 75 mm.		Sqm		
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Force Membrane HDPE-P Standard with a film of pressure sensitive adhesive end allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabProofing/Crade slab as shown in drawing. The waterproofing membrane shall comply with 85 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side ovariage of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intifinate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stabic Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preappled HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thistories: 1.2mm 2) Tensile strength (film): >21 Mpa (ASTM D412) 3) Elongation: 400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D193) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Resistance to to concrete: >880N/m (ASTM D193) 5) Linear Dimensional change: 0.1% (ASTM D194) 5) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change in the selvedge and end overlaps of minimum 75 mm. 7) The item rates shall include base preparation which include wire-brushing the Concrete/Masonny surface & cleaning with air jet, treating	259	Sqm		
D	NON DSR	WATERPROOFING WORKS WIP membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and Installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Fosroc Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows pound concrete to bond fully with the membrane on Raft SlabSidts SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall allows pound concrete to bond fully with the membrane on Raft SlabSidts SlabFooling/Grade slab as shown in drawing. The waterproofing membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end leps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is lossed-juid on the PCC before casting of the RCC raft slab - Foolings/Slitch Isables shown in displosable etc. The membrane waterproofing system The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thickness: 1.2mm 2) Tensile strength film): >21 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D93 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Resistance to hydrostatic pressure: >70m (ASTM D5385) 7) Low temperature flexibitie; <>25°C, no crack (ASTM D1970) 8) Linear Dimensional change: 0.1% (ASTM D1204) Side overlaps shall be a minimum of 75 mm on the selvedge and end overlaps of minimum 75 mm. The item rate shall include base preparation which include wire-brushing the Concrete/Mascony surface & cleaning with air jet, treating all joints, cracks, honeyoombs on the RCC members as per manufactures specification and approved methodology. Item rate slaso include cost of all materials, miscellaneous	259	Sqm	TO / INA	
D	NON DSR	WATERPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE using Force Membrane HDPE-P Standard with a film of pressure sensitive adhesive end allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabProofing/Crade slab as shown in drawing. The waterproofing membrane shall comply with 85 8102 - 2009 for grades 1, 2 and 3 and Indian Standard 16471 : 2017 for Protection of structures against water from the Ground. Waterproofing membrane shall be supplied with side ovariage of 75mm provided on the self adhesive selvedge and end laps using HDPE P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacturer's instructions with and shall provide an intifinate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stabic Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing system The fully bonded Preappled HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane thistories: 1.2mm 2) Tensile strength (film): >21 Mpa (ASTM D412) 3) Elongation: 400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D193) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Resistance to to concrete: >880N/m (ASTM D193) 5) Linear Dimensional change: 0.1% (ASTM D194) 5) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change: 0.1% (ASTM D194) 7) Linear Dimensional change in the selvedge and end overlaps of minimum 75 mm. 7) The item rates shall include base preparation which include wire-brushing the Concrete/Masonny surface & cleaning with air jet, treating	259	Sqm	TO I INDIAN	
D	NON DSR	WATEPPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17mm thick fully bonded Preapplied HDPE using Foore Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabPooling/Crade slab as shown in drawing. The waterproofing membrane shall obe supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacture's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing systems The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane bitnesses: 1.2mm 2) Tensile strength films; 221 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Pendure Resistance: >700N (as per ASTM E154) 5) Linear Dimensional change : 0.1% (ASTM D1970) 8) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensiona	259	Sqm	TO INDIAN &	
D	NON DSR	WATEPPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17mm thick fully bonded Preapplied HDPE using Foore Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabPooling/Crade slab as shown in drawing. The waterproofing membrane shall obe supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacture's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing systems The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane bitnesses: 1.2mm 2) Tensile strength films; 221 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Pendure Resistance: >700N (as per ASTM E154) 5) Linear Dimensional change : 0.1% (ASTM D1970) 8) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensiona	259		के / INDIAN	*
D	NON DSR	WATEPPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17mm thick fully bonded Preapplied HDPE using Foore Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabPooling/Crade slab as shown in drawing. The waterproofing membrane shall obe supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacture's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing systems The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane bitnesses: 1.2mm 2) Tensile strength films; 221 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Pendure Resistance: >700N (as per ASTM E154) 5) Linear Dimensional change : 0.1% (ASTM D1970) 8) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensiona	259	हैं। एक परि	5 INDIAN 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
D	NON DSR	WATEPPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17mm thick fully bonded Preapplied HDPE using Foore Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabPooling/Crade slab as shown in drawing. The waterproofing membrane shall obe supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacture's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing systems The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane bitnesses: 1.2mm 2) Tensile strength films; 221 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Pendure Resistance: >700N (as per ASTM E154) 5) Linear Dimensional change : 0.1% (ASTM D1970) 8) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensiona	259		THOMAN CO.	ZX a
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D	NON DSR	WATEPPROOFING WORKS W/P membrane system-Basement Positive Side Waterproofing the Horizontal Surface Below Raft Slab Area (HDPE Membrane) Supplying and installing waterproofing treatment by using 17mm thick fully bonded Preapplied HDPE using Foore Membrane HDPE-P Standard with a film of pressure sensitive adhesive and allows poured concrete to bond fully with the membrane on Raft SlabSitch SlabPooling/Crade slab as shown in drawing. The waterproofing membrane shall obe supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be supplied with side overlaps of 75mm provided on the self adhesive selvedge and end laps using HDPE-P Sealed tape of 100mm wide. Membrane shall be installed in strict accordance with the manufacture's instructions with and shall provide an intimate bond to resist water migration. The fully bonded HDPE membrane is loosely-laid on the PCC before casting of the RCC raft slab / Footings/Stitch Slab/as shown in drawings or wherever applicable etc. The membrane waterproofing shall taken to the height of grade slab concrete in aid of shuttering sheets or block work over and above lapping with Retaining wall waterproofing systems The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties: 1) Membrane bitnesses: 1.2mm 2) Tensile strength films; 221 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412) 4) Peel adhesion to concrete: >880N/m (ASTM D 903 Modified) 5) Puncture Resistance: >700N (as per ASTM E154) 6) Pendure Resistance: >700N (as per ASTM E154) 5) Linear Dimensional change : 0.1% (ASTM D1970) 8) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensional change : 0.1% (ASTM D1970) 9) Linear Dimensiona	259	हैं। एक परि	TINDIAN TO THE PROPERTY OF THE	ZK & W

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	The item rate shall include base properation which include wire-brushing the Concrete/Mesonry surface & cleaning with air jet, treating all joints, cracks, honeycombs on the RCC members as per manufactures specification and approved methodology. Item rate also include cost of all materials, miscellaneous				
	consumables labors, transportation of material to all required locations by approved means , Curing , tools, plant and machinery, hire and fuel charges and all other incidental charges etc.,				
	Protection screed for basement waterproofing is not required and reinforcement shall be tied over the membrane after providing cover blocks and binding of rods				
	without puncturing the membrane. Any defects or puncture spots shall be suitably repaired using HDPE sealed tape before concreting. The treatment for pile reprofiling, PRP, active anchors, etc shall be executed prior to waterproofing application as per manufacturer's recommendation and at extra cost				
	The teathers to pile reprofiling, FTG, desire analysis, etc. distribution to according to according approximate as por manuscrimic of commissional and of own of contract and of contract and of own of contract and of contract and of own of contract and of contrac				
2	Retaining Wall Waterproofing Supplying and installing waterproofing treatment by using 1.2mm thick fully bonded Preapplied HDPE sheet membrane Fosroc Membrane HDPE P Standard for the				
	Retaining wall as shown in drawing. Membrane shall be installed in strict accordance with the manufacturer's instructions and shall provide an intimate bond to resist				
	water migration. The fully bonded HDPE sheet membrane shall consist of a multi layer composite film which consists of highly resilient HDPE film, self adhesive polymer layer and trafficable. The fully bonded HDPE membrane is loosely-laid before casting of the RCC Retaining wall as shown in drawings or wherever applicable				
	etc.				
	The fully bonded Preapplied HDPE sheet waterproofing membrane shall have following typical properties:				
	1) Membrane thickness: 1.2mm	325	Sgm		
	2) Tensile strength (film) : >21 Mpa (ASTM D412) 3) Elongation >400% (ASTM D412)	323	Sqiii		
	4) Peel adhesion to concrete: > 880N/m (ASTM D 903 Modified)				
	5) Puncture Resistance: >700N (as per ASTM E154) 6) Resistance to hydrostatic pressuré: >70m (ASTM D5385)				
	7) Low temperature flexibility : <-25°C, no crack (ASTM D1970)				
	8) Linear Dimensional change : 0.1% (ASTM D1204)				
	Side overlaps shall be a minimum of 75 mm on the selvedge and end overlaps of minimum 75 mm.		1		
	The item rate shall include base preparation which include wire-brushing the Concrete/Masonry surface & cleaning with air jet, treating all joints, cracks, honeycombs on the RCC members as per manufactures specification and approved methodology. Item rate also include cost of all materials, miscellaneous				
	consumables, labors, transportation of material to all required locations by approved means , Curing , tools, plant and machinery, hire and fuel charges and all other				
	incidental charges etc., all required as per specifications, drawings and as directed by EIC.		-		
3	UG Sump OHT Tank waterproofing				
	Providing and applying flexible polymer modified elastometic waterproof coating using Brushbond Ultraflex of Fosroc Chemicals at 1mm thick in 2 coats at a coverage				
	rate of 16 sqm per 25 kg bag with interval period of 6 hours over a substrate with Saturated Surface Dry condition. Termination to be done on wall extending the coating to min.300mm height above the finished floor level and sealed in the termination groove of 20mm wide and 10mm deep flushed with polymer modified mortar as per				
	vendor recommendation. Coating shall be applied to the entire surface of floor and wall. The waterproofing system shall include necessary surface preparation,				
	injection grouting of construction joints and honey combs with cementitious pressure grouting with 40 psi pump using Cebex 100 @ 225gms mixed to 50 kg bag of	185	Sqm		
	cement including joints packing using polymer modified mortar. Chamfering the floor wall junctions with cement mortar 1:4 admixed with Nitobond SBR @ 2 litres per				
	50 kg bag of cement. Down take pipe annular gaps shall be properly packed using Conbextra GP2 mixed with water in ratio 0.16.				
	The applied material of Brushbond Ultraffex should have a Tensife strength as per ASTM D633 is 1.5 N/mm², elongation >175%, Adhasion to concrete is greater than 1.0 N/mm², Herdness> 79 Shore A and crack bridging ability (ASTM C1305 Modified) ->1.5 mm, Migration test (CFR 175-300 of UD FDA) etc.				
	The second part consists of waterproofing to internal surfaces by 12mm thick in CM 1:4 for walls with waterproofing admixtures Conplast WL Xtra @ 200ml per bag of				
	cement as per manufacturer's specifications and consultants approval, curing etc. complete. Cost to include necessary grouting of porous areas, watta at the junction of floor and walls, termination at the ends etc. complete.	24	Sqm		
3.1	Grade Epoxy Coating for OHT				
	Providing, supplying and spray applying solvent free food grade epoxy resin system using Fosroc Nitocote EP 405. The vertical surface/ horizontal surface of the				
	concrete shall be taken up for thorough surface preparation with compressed air blowing and mechanical removal of debris, lattance, etc. It shall be waterproofed with a mechanical spray application to achieve a minimum DFT as specified below, of approved make, a solvent free, Food grade eco-friendly, epoxy resin system applied as				
	per manufacturer recommendation etc. complete. Providing and applying of first coat of solvent free epoxy resin at 0.1 litre /sqm for achieving 100 microns, after 8	235	Sqm		
	hours Apply a second coat of solvent free epoxy resin @ 0.1 litre /sqm and allow to cure. The product shall have volume of solids: 100%, Specific gravity / Mixed density: 1.85 g/cc, Adhesive bond strength with concrete: > 1 N/mm²				
	dollary . 1.00 good , national books and contactor . * 1 failing				
4	Roof Slab Waterproofing				
	Preparation of the concrete surface by mechanical means (mechanical grinding) to ensure a good bond between the coating and the substrate. Supplying and applying				
	High Build Elastomeric waterproofing membrane Nitoproof 600PF based on pitch free polyurethane, cold applied of spray / brush applied single component membrane which is root resistant with minimum elongation of 400% as per ASTM D 412 and the system includes final base preparation, applying Nitoproof 600 PF in two coats				
	with solid content not less than 85% applied at 2.25 kgs / sgm over the primed surface using Nitoproof WB primer on prepared concrete surface as per manufacturer's				
	specification. The required thickness of 1.2mm DFT and the mixing, composition, proposition etc shall be as per manufacturer specifications and approved by				
	consultants. The cracks / construction joints / honey combs / leaking spots in the slab shall be provided with pressure grouting using cementitious system by admixing				
	Cebex 100 - 225 grams to 50 kg bag of cement. The junctions shall be chamfered using Nitobond SBR admixed polymer mortar prior to application of waterproof				
	coating. In addition treatment for Cut-outs, pines/cables minetrations. Bore packing, sleeves, drainage etc.				
	Termination to be done above the FFL to a height of 300mm after taking U groove of 10mm wide x 10mm thick flushed with polymer modified mortar as per vendor				
	recommendation. The exposed portion of waterproof coating over integral pedestal, parapet wall shall be applied with alliphatic polyurethane coating using Deliguard				
	PU at 90 microns. The material shall comply to - ASTM C 836.Elongation (ASTM D412): 500 to 700 %, Specific gravity: 1.5, Solid content: 85%, Tensile strength (ASTM D412): 2				
	N/mm², Tear resistance (ASTM D624): 15 N, Water vapour transmission(ASTM E96): 0.6 g/m²/fir., Water permeability @ 5 bar : Nil,Crack bridging (ASTM				
	C836/ASTM C1305 modified); 2 mm, Shore A hardness (ASTM D2240); 60				
	Roof Slab	235	Sam		
	Paracet wall	96	Sum		
4.1	Protection Layer On completion of waterproofing application, providing and fix 200gsm non woven Polypropylene geo textile membrane with over lap of minimum 50mm as protective		_		
	medium before screed concrete or landscaping works				
	Roof Slab	235	Sam		
4.2	Screed Concrete				
	Fixing 3mm diameter, 75mm square weld mesh over the geo textile surface followed by providing and laying screed concrete of M20 grade of everage 75mm thickness				
	with a minimum thickness of 50mm at drain points and a slope of 1:150 or required as per the site condition at all levels by admixing necessary admixinures Complast WL Xtra @ 200ml per bag of cement of Fosroc Chemicals or approved equivalent and mixing Graded fibrillated 100% virgin poly propylene fibres in concrete at the rate				
	of 0.90 kg/cum as per manufacturers specifications. Treatment to continue along the vertical surface for 300mm height in shape of round Chamfering, curing etc. The				
	concrete shall be provided with groove cutting of 6mm x 10mm at every 5m x 5m area, the joints shall be treated with elastomenic sealants Nitoseal PU 50.				
	Roof Slab	235	Sam		
5	Wet Area Waterproofing				
5.1	Surface Preparation The cleaning and preparation of the substrate to which the waterproofing barrier applied must be carried out thoroughly to leave a sound base for the application. Any		-		
	laitance present on the surface must be removed mechanically. Release oil and other contaminants which may impair adhesion must be removed prior to the				
	application. Surface shall be maintained in dry condition before applying waterproof coating.				
5.2	Coving at Right Angle Junctions				
	All the right angle junctions between floor and wall shall be provided with coving of size 75mm x 75mm minimum 15mm thickness in cement mortar 1.4 admixed with				
	Nitobond SBR. @ 2 litres per 50 kg bag of cement after saturating the surface with water and applying a sturry primer coat with Nitobond SBR. For non sunken slabs / composite deck / precast slabs, Nitoband Corner Tapes shall be used as per manufacturer specification				
F 2			-		
5.3	Down Take Pipe Packing				
	The pipes to be fixed should be filed in order to provided a proper bond and the same to be alligned by the respective agency. The annular space around the Rain water pipe shall be packed using Conbectra GP2, a high strength free flow non shrink grout mixed water in ratio 0.16. The surface shall be suitably prepared using wire				
	brush, primed with Nitobond SBR on the core surface fixing leak free form work followed by fixing Nitoband Collars sandwiched with waterproof coating as per				
	manufacturer's specification.				
5.4	Pressure Grouting at Leaking boints				
	Water ponding for minimum 48 hours and 50mm height shall be done to observe weak points in the concrete. Providing camentificus based injection grouting at		37	INDIA	
	construction joints, leaking spots and honey combs with 40 psi pump using Cebex 100 @ 225gms mixed to 50 kg bag of cement including joints packing using polymer		100	- CANA	
	modified morter. Fixing of nozzles and chipped portions of nozzles shall be reinstated using Renderoc Plug as per manufacturer's specification		की.व	1. / C.O.	111
			<i>फि.</i> / परिसर	त्सय एवं 🗲	1
5.5	Waterproof coating		1		
<u>3.5</u>	Watergroof coeting	1.	a (titl	HIT A	
i.5	Watergroof coeting		d Premise	s Expenditure)
5.5	Watergroof coating	(Premise SE	s Expenditure)

		Providing and applying flexible polymer modified elastomeric waterproof coating using Brushbond Ultraffex of Fostoc Chemicals at 1mm thick in 2 coats at a coverage rate of 15 sym per 25 to play with interval period of 6 hours over a substrate with Saturated Surface Dry condition. Termination to be done on wall extending the coating to min 400mm height above the finished floor level and sealed in the termination groove of 20mm wide and 10mm deep fluxhed with polymer modified motrar as per vendor recommendation. The applied material of Brushbond Ultraflex should have a Tensile strength as per ASTM D538 is 1.5 N/mm², elongation >175%, Adhesion to concrete is greater than 1.01/mm², Hardness> 79 Shore A and crack bridging ability (ASTM C1305 Modified) >>1.5 mm ,Migration test (CFR 175-300 of UD FDA) etc.,(Location - Toilet, Balcony)	327	Sqm			
5.6		Sunken Filling					
		Fine sand shall be sprinkled while the coating is in tacky condition. Providing and laying plastering of 12mm thickness in CM 1.4 mixed with integral waterproofing compound Conplast WL Xtra @ 20ml per beg of cement. System include necessary preparation, curing with water, chemicals used, labour, etc as per specification complete before providing screed concrete / brick bat cobe / cinder filling.	215	Sqm			
-		Total for Waterproofing works				evinne	
6		STEEL STRUCUTURE FOR 'PUFF SHEET FOR ROOF					_
a	NON DSR	SUPPLY AND INSTALLATION	2965	KG			
b		SUPPLY AND INSTALLATION OF PUFF SHEETS FOR ROOF	1483	SFT			
С		SUPPLY AND INSTALLATION OF GUTTER)	19	RM			
		Total for steel structure puff sheet Works					1.
		Total for Structural works Super Structure	West Street	HELLER			*
NEW	1	Total for Structural works (A+B)	HPS	4	AHERS.		3/





SI. No	DSR CODE	DESCRIPTION	Qty	Unit	Rate in Figures	Amount in Figure
		STRUCTURAL WORKS				
A		SUB STRUCTURE CEMENT CONCRETE WORKS				
		Providing, machine mixing and laying Plain cement concrete (PCC) M10 grade of required thickness for foundation, rafts, plinth beams, levelling course and all locations, etc. (minimum cementitious content shall be as specified in the IS Code and as approved); including compacting, curing, required shuttering and its removal, dewatering where required and vibrating, cleaning, preparing surfaces, junctions, etc.; complete at all depths and leads as per the drawing and to entire satisfaction of the Engineer-in-charge				
	DSR 4.20.1.1	Footings, Plinth Beams & Below the Grade Slab	3.80	m ³		
-						
В		Total for Cement Concrete works				
	DSR 5.33.1.2	Providing, transporting, pumping and laying batched design mixed, controlled concrete of M30 (as specified in the Structural drawings) conforming to (is 456) with minimum cement content and maximum water cement ratio as per IS or as specified by Structural Consultant holduring using approved quality admixtures and placed either with pump/manualifit for following grades of concrete including compacting, wbratting, curing and protecting against excess etc. complete at all lead, lift & heights as per the drawing and to entire satisfaction of the Engineer-in-charge.				
		M30 Grade Concrete				
		Column Beam	2.03 8.62	m ³		
С		Total for Reinforced Concrete works - Substructure				
		Providing, fabricating, erecting form work and deshuttering at all levels and places wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant. Cost to include designing of proper form work and staging system to suit the requirements. Submission of design calculations and shop drawings for approval, sealing the joints with heavy duty brown seleave tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings / cutouts / pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double floor heights and profiles.				
	NON DSR	Column Besm	40.51 86.16	m ²		-
		Total for Formworks - SubStructure				
D		REINFORCEMENT WORKS Providing, supplying, collecting, fabricating & fixing in position reinforcement for RCC work with high yield strength ribbed cold twisted tor steel (HYSD-F650-D) bar of various diameters and grade of steel at all levels conforming to IS specification including transporting from yard, decoiling, straightening, cutting, bending, hoisting/Lifting, fabricating, and placing in position according to drawings and binding the reinforcement with CI anneated binding wire of double fold of 18 gauge and providing PVC/Concrete cover blocks, for placing the reinforcements in position and for maintaining the cover specified and/or according to relevant IS codes. The quantities including of dowels reinforcement,				
- 1	DSR 5.22.6	Grade of reinforced steel - Fe 500-D Grade Column	506.40	Kg		
	DOIX 0.22.0	Beam Pile	2,155.00 14.103.96	Ka Ka		
_						
E		Total for Reinforcement works - SubStructure				
1.00	DSR 20.3.1	Boring with hydraulic pliing rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel rainforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all comclete.	103.20	m		-
		7.16 00				
_		Total for Pile works				
F		MASONRY WORKS				
1.00	NON DSR	Providing and fixing of M15 Solid Concrete 200mm thick block work using 20mm ISS HBG stone Cement Concrete in straight or curved walls, piers and architectural features at all levels using approved solid blocks of density not less than 1,800Kgs/cum, minimum average compressive strength of 45 Nmm/2 as per IS 2185 (Part 1): 2005 in cement mortar 116 including cutting, asafolking, staging, packing the residual space between masonry & other structural members like columns, beams, slabs etc., providing openings as divided and finishing neatly around the same, the cost of all materials, labour, equipment and machinery, work at all leads and lifts, loading and unloading, transportation, and all other incidental charges etc., complete.	40.51	m³		đ
2.00		Providing and applying minimum 18mm thick double coat cement sand plaster; first coat to be 12mm thick cement sand mortar of mix ratio CM 1:5 (1 cement : 5 sand) including adding 2% by weight of cement approved waterproofing compound of approved manufacturer, second coat to be 6mm thick in cement sand mortar of mix ratio CM 1:6 (1 cement : 6 sand), finished sand face or as required to receive specified architectural external finish to correct line, plumb and level to external faces of wals, sofiis/ceiling if any, including hacking concrete surfaces then applying chemical adhesive coating and a scratch/dash coat as a positive bond, curing the same, racking outly functions of masonry and concrete, then pointing and grouting using non-shrinking compound, joints grouted by pressing square crushed stone, doing independent double legged scaffolding etc.	405.12	m²		
3.00	NON DSR	Providing and laying 18mm thick (+/-1mm) approved machine-cut, machine-honed (matt finish) granite stone flooring of specified size and shade, with all exposed edges machine-polished (honed), treads in single piece as per drawing with rounded nosing and 2 nos of 5mm x 5mm deep anti-skid grooves on top front edge; laid over a minimum 20mm thick cement morat ped (1.6 mix - 1 part cement: 6 parts M-sand), with cement sturry @ 2 kr/grom on prepared base and 4.6 kr/grom on back of stone, joints to be filled with approved colour-matched readymade grout, including curing, cleaning, and final surface polishing to matt finish, complete in all respects as per drawing and instruction at all heights (Basic price of granite Rs.120/Sft excluding GST)."	254.00	m²		
		Total for Masonry Works				
G	NON DSR	PAINTING / SUNDRISE/ ELEVATION WORKS				
	-	Providing and applying two coats of Acrylic Texture Application over one coat of Primer and Two Coats of Utima Protek Apply One				
1.00		Providing and applying two coats of Acrylic Lexiture Application over one coat of Himmer and Livio Coats of Uttima Proteit Apply One Coat of Exterior Primer + One Coat of Apex Duracast Cross Texture + Two Coats of Uttima Proteit Supply and Install Motorised MS Telescopic Gate	405.12	m ²		
2.00		CE Certified As Per European Standard H 13241-1:2003+A1.2011 Single Side - 2 Leaf Avians Std Design Surface Finish - Enamel Paint Automation System Push Button - 1 No.	1.00	Nos		٠
3.00		Supply and laying of 60mm thk paver block laid over 50mm thick M sand filling with necessary compaction to the level satisfaction to the	257.00	m ²		
-		engineer - in- charge				
4.00		Supply and Backfilling of M Sand/Dust	115.65	m ³		
		Total for Structural works External Works	PHI			
		A TINDA		l Earl		

Note: GST 18% Extra

	Name of the Work : APARTMENT -INDIAN BANK ABSTRACT ESTIMATE - PLUMBING				
SI NO	DESCRIPTION	QUANTITY	Rate U	MIT	AMOUNT
	B) INTERNAL WATER SUPPLY PIPES AND FITTINGS EXPOSED ABOVE FALSECELLING AND TERRACE FLOOR(HOT, COLD, FLUSHING)				
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes conforming to ASTM D-2848, SDR11 upto 50mm dia for above 50mm dia, having thermal stability for hot & cold water supply, including all CPVC plain & bress threaded fittings that is Tees, Elbows, Couplers, Unions, Reducers, brushings etc. including transition fittings connection between CPVC & metal pipe/GI) is. Brass Adaptors (both Male & Female threaded), including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one stop CPVC colvent cement conforming to ASTM F493 and testing of joints complete as per direction of Engineer in Charge. Rate Quoted shall be inclusive of cost of other consumables like hacksaw blade, solvent for CPVC pipe, etc.				
a b	65 mm dia.SDR 11 55 mm dia.SDR 11 40 mm dia.SDR 11	148	F	lmt lmt	
d d	40 mm dia.SDR 11 32 mm dia.SDR 11 25 mm dia.SDR 11	45	F	lmt lmt	
f	including concealed line 20 mm dia.SDR 11 EXPOSED SHAFT	790		lmt	
2 a b c d	Providing and fixing Chlorinated Polywinyl Chloride (CPVC) pipes conforming to ASTM D-2846, SDR11 upto 50mm dia for above 50mm dia, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings that is Tees, Elbows, Couplers, Unions, Reducers, brushings etc. including transition fittings connection between CPVC & metal pipe/GI) is. Brass Adaptors (both Male & Fernale threaded), including fixing the pipe with clamps et 1.00 m spacing. This includes jointing of pipes & fittings with one steps CPVC colvent cement conforming to ASTM F493 and testing of joints complete as per direction of Engineer in Charge. Rate Quoted shall be inclusive of cost of other consumables like hacksaw blade, solvent for CPVC pipe, etc.including supporting channel 50 mm dia.SDR 11 40 mm dia.SDR 11 32 mm dia.SDR 11 52 mm dia.SDR 11	120 120	F	Rmt Rmt Rmt	
3	BALL ISOLATION Valve - Providing and fixing cpvc ball valve				
a b	(BUTTER FLY VALVE)65 mm dia 50 mm dia			los los	
c d	40 mm dia 32 mm dia	15	1	los los	
e f	25 mm dia 20 mm dia	15	1	los los	
4	Providing and fixing of of approved make automatic air release valve15mm ball valve as directed by Engineer-Incharge.	QRO		los	
	Sub-Total - Part - B'. C) INTERNAL DRAINAGE (SOIL & WASTE)		ET TEST		
5	CONCEALED AND EXPOSED ABOVE FALSECELLING Providing and fixing of UPVC as per IS-13592, Type B with selfit type joints together UPVC pipes with necessary reducers if required, together uPVC pipe speciels, vent cowls, of approved make. The pipes shall be duty fixed at site, with necessary cutting & jointing of pipe with approved quality fix. The pipe shell be fixed property aligned vertical with suitable MS pipe clamps. Work to include making necessary holes in the masonary walls etc. and making good the damaged portions with morter filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified. The work shall include Providing and fixing of necessary angled channels for supports, chasing of supports and of supports, paining of supports and supports an				
a b	50 mm O.D pipe Type - B 75 mm O.D pipe Type - B			imt imt	
C	INTERNAL DRAINAGE (SOIL, WASTE & VENT)	195		lmt	
	EXPOSED IN SHAFT				
6	Providing and fixing of UPVC as per IS-13592, Type B with selfit type joints together UPVC pipes with necessary reducers if required, together uPVC pipe specials, work cowds, of approved make. The pipes shall be duly fixed at site, with necessary cutting 8 jointly of pipe with approved quality fix. The pipe shell be fixed properly aligned vertical with suitable MS pipe clamps. Work to include making necessary holes in the masonary walls etc. and making good the damaged providing and fixing with 14 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified. The work shall include Providing and fixing of necessary neglest channels for supports, chasing of walls, grouting of supports, pathing of supports dec., complete.				
a b	80 mm-vent place 75 mm O.D pipe Type - B			lmt lmt	- 16
C	110 mm O.D pipe Type - B			lmt	
	Providing & fixing in position deep seal multiway PVC floor Trap with cockroach trap and PVC extension piece of required length depth of following size to suit site conditions and multiple inlets, to suit site conditions with inlet sizes ranging from 40 mm to 75 mm. The bottom of the sump shall be dummied water tight. Wherever, sumps are shown to have water seal, the seal depth shall be minimum 40 mm. The sump shall be laid in cement concrete bed with 1:36 mix with 20 mm brick jelly bed all arround. Providing and fixing heavy class C.P. brass mosquito proof grating with frame of approved design including setting in floor with cement mortar to match with floor finish. ROOF DRAINAGE [RAIN WATER DRAINAGE]	105	7	los	1.
7	Providing and fixing of UPVC as per IS-13592, Type B with selfit type joints together UPVC pipes with necessary reducers if required, together uPVC pipe specials, vent cowls, of approved make, The pipes shall be duly fixed at site, with necessary cutting 8 joints of pipe with approved quality fix. The pipe shall be fixed properly aligned vertical with suitable MS pipe clamps. Work to include making necessary protes in the masonary walls etc., and making good the damaged portions with mortar filling with 1.4 mix. Before handing over, test test shall be carried out and any defects found shall be rectified. The work shall include Providing and fixing of necessary angles! channels for supports, chasing of supports, bening of supports and supports.				
a b	160 mm OD pipes 110 mm O.D pipe - B	95 48		lmt	-
В	Providing and fixing of Approved 'make or Equivalent make ROOF DRAIN, CI body with aluminium ring, with SS flat grate and screws including making necessary sleeve arrangement in the slab, core packings, water leak arrests, etc., chasing in the floor, fixing the grating support in the controller, fixing the grating in the support and making connection to the rain water down coming pipe without any leak, painting the grating with one coat of primer and two coats of black enamel paint. Roof drains outlet 160mm Dia			los	
	Roof drains outlet 110mm Dia Sub-Total - Part - C'.	2		los	
9	DI EXTERNAL AND BASEMENT PUMP ROOM WATER /SEWER / STORM DRAINAGE EXTERNAL AND BASEMENT DOMESTIC. FLUSHING WATER SUPPLY TO SUPLIDING Providing and hidning Chlorinated Polyviny Chloride (CPVC) pipes conforming to ASTM D-2846, SDR11 upto 50mm dia & Sch 40 for above 50mm dia, having thermal stability for hot & cold water supply, including all CPVC plan & brass threaded fittings that is Tees, Elbowe, Couplers, Unions, Reducers, brushings etc. including transition fittings connection between CPVC & metal pipe/(3) ie. Brass Adaptors (both Male & Fender threaded), including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement conforming to ASTM Fa93 and testing of joints complete as per direction of Engineer in Charge, Rate Quoted shall be inclusive of cost of other consumables like hacksay blade, solvent for CPVC pipe, etc. (MOTE:Including of				
а	EXCAVATION WORKS UPTO 400 to 600mm.) 50 mm dia (COLD AND FLUSHING .MUNICIPAL.)	70		MT	//2
0	EXTERNAL AND BASEMENT /STILT DRAINAGE - ISEWER LINE) Providing and fixing of UPVC as per IS-10124, 10 kgf/cm2 with selfit type joints together UPVC pipes with necessary reducers if required, together uPVC pipe specials, vent cowls, of approved make. The pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved unlets. The pipes shall be duly fixed at site, with necessary cutting & jointing of pipe with approved unlets, the pipe shall be fixed properly aligned vertical with suitable Me pipe chall be fixed properly of the measonary walls etc. and making good the damaged	QRO	R	MT	
	portions with morter filling with 1:4 mix. Before handing over, leak test shall be carried out and any defects found shall be rectified. The work shall include Providing and fixing of necessary angles/ channels for supports, chasing of walls, grouting of supports, painting of supports etc., complete, including excavation work upto 800mm depth				
a	160 mm O,D pipe(SEWER LINE AND RAWIN WATER.) 110 mm O,D pipe Tyre B(SEWER LINE AND RAWIN WATER.)	165 45		MT MT	-
b c	75 mm. O.D. pipe Type B	35		MT	77.
1 a	Supply, Erection, Testing and Commissioning of Cast Iron Body Butterfly Isolation Valves (PN:16) with necessary fittings and accessories like flanges, GI bolts, nuts & washers, painting etc. The Valves shall be of Lever operated valves for 150NB and below and gear operated valves for 200NB and above 65 mm. dia			os.	
b 12	50 mm dia Providing and fixing of approved make of Non return valve (screwed), suitable for both horizontal & vertical application conforming to BS 1982 tested to a	4		os	
2 a	Pressure of 15 Kg/sgcm, threaded joints) complete as required and as complete, as directed by Engineer-Incharge. 65 mm dia			os	
b 13	50 mm dia Supply, Installation, Testing and Commissioning of C.I body & cover.PN-16, SS304 strainer & carbon steel bolls & nuts Pot type Strainer.	4		os	
a b	65 mm NB. 50 mm dia	QRO 2		os os	
4	GREY AND BLACK WATER CHAMBER Construction of sewer chambers of required internal dimension of 600X600mm depth upto 0.8 Mtr depth with brick masonry in cement mortor 1:5 thickness of masonry 25 mm, 1:36 cement concrete foundation 150 mm thick over 150 mm sand bod, channelling in 1:2:4 cement concrete, plastering in 1:3 cement mortor for internal and external surface finished with floating coat of neat cement. Neco make Heavy duty ductile iron manhole cover with hinged frame C-250. fixed over 100 mm P.C.C. including painting of the frame, cover with 2 coats of anti- corrosive bitumestic paint over a coat of primer all as per specifications. The work shall include necessarily exactivation and backfilling.	9	के के का. C.O.		Į.
		(4	Premises, Expenditu & Estate Dept	a Ti	

UTILITY PURPS Supply and installation of DOMBATIC Water supply Hydre Presumatic System Pumps, of approved make Veriable flow 1 Pump system, 1 working 1 stand by Far pumping the US water from earny to Mitching and Pumps, or the Control of Pumps o	Description Nos services discovered to the service guilly trip including embedding trap in cement concrete 1.36 and soncy. 16 mm bits, plate with cement mater (4:3) on both intend and external surfaces, and surfaces, and surfaces, and surfaces are considered to the surface of the surface o
17 Supply a Fing of Young supply sufficients of Life Community Control (1997) and the Supply of Total Control (1997) and the Supply of	### Spatian Pumps. of approved make. Viriable flow 1 Pamp e patient, it working 1 I identify the foliable processory Control Viriable flow 1 Pamp e patient, it working 1 I identify the foliable processory Control Viriable flow 1 Pamp e patient, it working 1 I identify the foliable processory Control Viriable processory Control Viriable processory Control Viriable processory and the foliable processory of the foliable processory and the foliable processors and the foliable p
UNILITY PLANTS Supply and installation of DOMESTIC Water paget, Mayber Presentation Systems Plants, of agreement making wireless flow 1 plants systems, 1 working 1 of statest any 50 years presented to Water from the plant of billions are not control with the making plants of the system, foot views, e.g., 6, m3/High and less a flant of flower flowers of the system, foot views, e.g., 6, m3/High and less a flant of flants of the flant	atic System Pumps, of approved make Variable flow 1 Pump system, 1 working + 1 stand ost shall include necessary Control Valves, pressure vessel, pressure vess
by, For pumping the UD water from sump to Nithbarn area. The cost shall include necessary Correct Valves, pressure wested, pressure wested, No-Fellum (Valves, Individual) pumps and state of the Control	ost shall include necessary Control Valves, pressure vessel, pressure switch, Non-Return (Fig. not lase than draft Heads, Each Tumps shall claive of smit (P) and of that with reseal tank-100 in of women make impelier SSO04. The electrical contractor will leave the possible of the control of
9 m3/m8 definite Mead with The coast shall include recessary Control Valence, pressure of vested, Non-Relative Actionary Actionation (CDUD AND PUSINNO WATER) Supply and installation of approved make, submersible Dewaltering non clop pump (venching * 1 stand by), finality restricted height of 15 mits, with complete controllers, facility of the controllers of the controll	Valves, pressure vessel, pressure vessel
0 connections, float evide/sea, drain points, required copilings, valves, non return valves, stately parel, required cobiling between parel and motors, required pump susports and guilds Parels Pema Recommend of Collection sit. Supply, installation, realing a commissioning of Value Invelo controller for OHT & SUMP, Pump meet Convoler for with high you level singuist on Christian State of Collection and State Invelored State of Collection State Invelored Stat	non return valves, stater panel, required cabling between panel and motors, required pump nit. arf or OHT & SUMP, Pump must On/Off based on with high/low level singals on OHT, with witch, termination of sensor cable terminations, starter provision for tw+15 pump of capacity to sume. Set over make Variable flow Terrace Booster, 1 working + 1 stand by, For pumping ge pumps mounted on a common base frame, with common galvanized suction & turn valves, Control panel - Voltmeter, ammeter, Three phase greventer, with dry s Each Pumps shall deliver 5m3/hr @ head of 30 mtr with necessary starter, The with MCB or MCB. The PHC contractor shall consider the cabling from the MCB ables shall be 20 RMT. but with MCB or MCB. The PHC contractor shall consider the cabling from the MCB ables shall be 20 RMT. subth a M3/Hr submerable pumpset, supply of required materials by the firm including 2° fing and commissioning of pumpsets. The scoope of work includes surply and erection of the hypothemic in Tamilhoat including transportation from one place to another with in fing of the period of the hypothemic in Tamilhoat including transportation from one place in arothemic with in set to decrease anywhere in Tamilhoat including transportation from one place in arothemic with in set to decrease anywhere in Tamilhoat including transportation from one place in arothem with in hold using rotary rigs fuel, labour and drilling bentonite and water required for drilling at aties. MIGATION 5 POINTS) Sub-Total - Part - E. Sub-Total - Part - E.
Septy, Installation, testing & commissioning of Water level controller for CHT & SUMP, Pump must chn/Off based on with highlytic view singlat on CHT, with 1 section of the proposed commission of the commission of searce active provision for 1-vite pump of capacity 2 states	er for CHT & SUMP, Pump must On/Off based on with high/flow level singals on CHT, with with, termination of sensor cable terminations, starter provision for tw+1s pump of capacity to summ of sensor cable terminations, starter provision for tw+1s pump of capacity to summ of sensor cable terminations, starter provision for tw+1s pump of capacity to summ of sensor cable and a common base frame, with common galvanized suction & turn valves. Control panel - Voltmeter, ammeter, Three phase preventer, with dry s Each Pumps shall deliver 5m3/hr & head of 30 mtr with necessary starter, The base shall be 20 RMT. with MCB or MCB. The PHIC contractor shall consider the cabling from the MCB able shall be 20 RMT. able mechanism type, magnetically sealed totaliser retorofittable for pulse output and made on connection, with pulse wire and re-485 totalizer and ms box.NOTE:CONSIDE by MM start and the sensor of th
the water from oht to proposed campus, Hortzontal multistage pumps mounted on a common base frame, with common galvainized suiton 8 delivery amildotton valve and 2 nos of non return valves. Control panel. — Voltmeter, amilet pumps. In control provision.impeller SS304 Pressure vessel 100 first Each Pumps shall deliver Sm3 fir 8 head of 30 mft with necessary stater. The electrical contractor will leave the cable near the pump room with McD or MCCS. The PHE contractor shall consider the cable in the cable is a cable to the cable shall be 20 Mft. Agament-we vediman shy be blus water metar (p. to 20 degly. Immorable mental management of the cable shall be 20 Mft. Reparation of the cable shall be constructed united with the cable shall be 20 Mft. Reparation of the cable shall be 20 Mft. Reparation of the cable shall be called shall be accessed installation, testing right. Reparation of the cable shall be 20 Mft. Reparation of the cable sha	ge pumps mounted on a common base frame, with common galvanized suction & turn valves. Control panel - Voltmeter, ammeter, Three phase preventer, with dry s Each Pumps shall deliver 5m3/hr @ head of 30 mtr with necessary starter, The able shall be 20 RMT. with MCB or MCB. The PHE contractor shall consider the cabling from the MCB able shall be 20 RMT. able shall be 20 RMT. able mechanism type, magnetically sealed totaliser, retorofittable for pulse output and right of the contractor shall consider the cabling from the MCB able shall be 20 RMT. 50 MM 3 NOS to with 4M3/Hr aubmeralble pumpset, supply of required materials by the firm including 2 ring and commissioning of pumpsets. The scoope of work includes supply and erection of 16 act. [Plentine from pump delivery at proxy and instable. The distribution of authority and proxy and instable. The distribution of authority and proxy and instable. The distribution of authority and proxy and instable the distribution of authority and proxy and instable. The distribution of authority and proxy and instable the distribution of authority and proxy and instable all and shall be all the distribution of the proxy and instable all the p
3 conforming to iso-4084 class-b, with flanges end connections, with flangest end connection, with pulse wire and rs-485 totalizer and ms box NOTE:CONSIDE TYPICAE, IsoOR COLD &FLUSHING SUPPILY. Borewell - Digging of Pilot hole of 200 mm dia to a depth of 430 mts with 4M3/Hr authersible pumpset, supply of required materials by the firm including 2° Cl. delivery pipe and exection of pumpset including accessories, testing and commissioning of pumpset. The scoope of work includes supply and restallation of acids as PVC coarsing pipe of 150 mm dia including slotting covered with reference to the scoope of work includes supply and installation of the members pump set with necessary cables, control boards, protective devices etc. Laying of 2° dia CJ Pipeline from pump delivery at ground level to HLR - 5 meters length. Pipes required for executing of the delivery will be provided by the contractor Drilling of Borowidal anywhere in Translikation tructured gramporation from splace to another with in excessing cables, control boards, protective devices etc. Laying of 2° dia CJ Pipeline from pump delivery at ground level to HLR - 5 meters length. Pipes required in delivery will be provided by the contractor. Drilling of Borowidal anywhere in Translikation tructured in a translikation of the protein of the scoope of the	ts with 4M3/Hr aubmeraible pumpset, supply of required materials by the firm including 2' ing and commissioning of pumpsets. The scoope of work includes supply and erection of thir nyton Mesh to a length of 110 mtrs. Supply and installation of submeraible pump set with 'dia G. I) Pipeline from pump delivery at ground level to H.R 5 meters length. Pipes required 2 Borewells anywhere in TamilNadu including transportation from one place to another with in shale pennies boulders etc. By first taking a pito bere of 140mm/150mm dia and then hod using rotary rigs fuel, labour and drilling bentonite and water required for drilling at atlac-My(INCLUDING OF BORE WELL WORKS AND BORE WELL PUMPS AND PIPES AND STIGATION 5 POINTS) Sub-Total - Part - E. In the submeraise of modular panel-type FRP (Fiber Reinforced Plastic) water storage tanks, reight), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per this, food-grade, UV-stabilized FPP/GRP panels statisfale for pobles or process water storage, in, structural rigidity, and long service life. The standard tank wall thickness shall be as mm, up covery panels 4 mm to 6 mm, and comer/inferforement areas shall be strengthened using stairless stelle hardware (SS 304*16) with EPDM rubber gaskets to ensure a leak-to-eviced RCC or steel foundation, and installation shall include all necessary accessores such hole, and external support if needed. Hydrostatic testing shall be carried out after installation nust conform to relevant IS standards and industry norms Description Description Description AMOUNT AMOUNT AMOUNT AMOUNT
Borewell - Digging of Pilot hole of 200 mm dia to a depth of 130 mts with 4M3/Hr automeraible pumpset, supply of required materials by the firm including 2° G.I delivery pipe and arection of pumpset including accessories, testing and commissioning of pumpsets. The accept of the control of submerable pumpset of the control of the contr	ts with 4M3/Hr aubmersible pumpset, supply of required materials by the firm including 2° ing and commissioning of pumpsets. The scoope of work includes supply and erection of thin yolon Mesh to a length of 110 mtrs. Supply and installation of submersible pump set with "dia G.I. Pipeline from pump delivery at ground level to HLR – 5 meters length. Pipes required Borevells anywhere in TamilNadu including transportation from one place to another with in shale pennies boulders etc. By first taking a pilot bore of 140mm/150mm dia and then hold using rotary rigis fuel, labout and drilling bentonite and water required for drilling at alter-My.(INCLUDING OF BORE WELL WORKS AND BORE WELL PUMPS AND PIPES AND STIGATION 5 POINTS) Sub-Total - Part - E. No submitted to the submitted by
The work includes the supply, installation, testing, and commissioning of 3 numbers of modular panel-type FRP (Fiber Reinforced Plastic) water storage tanks, each having a dimension of 1.2 m (width) × 2.5 m (length) × 2.3 m (height), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per approved drawings. The tanks shall be constructed using high-strength, food-grade, U.V. stabilized FRP/panels suitable for potable or process water storage. The panel-based construction method shall ensure ease of installation, structural rigidity, and long service life. The standard tank wall thickness shall be astrengthened up to 10 mm or more as required. All panels shall be botted together using statistics steel hardware (SS 304/910) with EPD/number gaskets to ensure a teak-proof and corrosion-resistant seal. The tanks shall be mounted on a leveled RCC or steel foundation, and installation shall include all necessary accessories such as linet, outlet, overflow, drain, air vent, internal bracing, access manholo, and external support if needers shall be access manholo, and external support if needers shall be carried out after installation to verify performance and structural integrity. The entire installation must conform to relevant IS standards and industry norms GRAY WATER TREATMENT PLANT-5KLD a MECHANICAL EQUPIMENT bigTP -FRP TANKS-INCLUDING Description OUANTITY Rate UNIT Rate PLANT-SKLD AUTOMATIC GREY WATER TREATMENT PLANT-SKLD BigTP -FRP TANKS-INCLUDING Description Description Description Description Description Description Description SUBJECT - Standard S	ng of 3 numbers of modular panel-type FRP (Filber Reinforced Plastic) water storage tanks, neight), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per this, food-grade, UV-stabilized FRP/GRP panels suitable for potable or process water storage, on, structural rigidity, and long service life. The standard tank wall thiskness shall be as mm, top cover panels 4 mm to 6 mm, and counter/sinforcement areas shall be strengthened using stainless steel hardware (SS 304/316) with EPDM rubber gaskets to ensure a leak-leveled RCC or steel foundation, and installation shall include all necessary accessories such thole, and external support if needed. Hydrostatic testing shall be carried out after installation nust conform to relevant IS standards and industry norms Description Description QUANTITY Rate UNIT AMOUNT
The work includes the supply, installation, testing, and commissioning of 3 numbers of modular panel-type FRP (Fiber Reinforced Plastic) water storage tanks, each having a dimension of 1.2 m (width) × 2.5 m (length) × 2.3 m (height), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per approved drawings. The tanks shall be constructed using high-strength, food-grade, U.V. stabilized FRP/panels suitable for potable or process water storage. The panel-based construction method shall ensure ease of installation, structural rigidity, and long service life. The standard tank wall thickness shall be astrengthened up to 10 mm or more as required. All panels shall be botted together using statistics steel hardware (SS 304/910) with EPD/number gaskets to ensure a teak-proof and corrosion-resistant seal. The tanks shall be mounted on a leveled RCC or steel foundation, and installation shall include all necessary accessories such as linet, outlet, overflow, drain, air vent, internal bracing, access manholo, and external support if needers shall be access manholo, and external support if needers shall be carried out after installation to verify performance and structural integrity. The entire installation must conform to relevant IS standards and industry norms GRAY WATER TREATMENT PLANT-5KLD a MECHANICAL EQUPIMENT bigTP -FRP TANKS-INCLUDING Description OUANTITY Rate UNIT Rate PLANT-SKLD AUTOMATIC GREY WATER TREATMENT PLANT-SKLD BigTP -FRP TANKS-INCLUDING Description Description Description Description Description Description Description SUBJECT - Standard S	g of 3 numbers of modular panel-type FRP (Fiber Reinforced Plastic) water storage tanks, neight), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per this, food-grade, UV-stabilized FRP/GRP panels suitable for potable or process water storage, on, structural rigidity, and long service life. The standard tank wall thiskness shall be as mm, top cover panels 4 mm to 6 mm, and countrienforcement areas shall be strengthened using staniless steel hardware (SS 304/316) with EPDM rubber gaskets to ensure a leak-leveled RCC or steel foundation, and installation shall include all necessary accessories such thole, and external support if needed. Hydrostatic testing shall be carried out after installation nust conform to relevant IS standards and industry norms **Description** **Description** **QUANTITY* **Rate** **QUANTITY* **Rate** **QUANTITY* **Rate** **UNIT** **AMOUNT** **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water* **QUANTITY* **Rate** **QUANTITY* **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water* **QUANTITY* **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water*
The work includes the supply, installation, testing, and commissioning of 3 numbers of modular panel-type FRP (Fiber Reinforced Plastic) water storage tanks, each having a dimension of 1.2 m (width) × 2.5 m (length) × 2.3 m (height), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per approved drawings. The tanks shall be constructed using high-strength, food-grade, U.V. statishized FRP(PA) panels suitable for potable or process water storage. The panel-based construction method shall ensure ease of installation, structural rigidity, and long service life. The standard tank wall thickness shall be as the strengthened up to 10 mm or more as required. All panels shall be botted together using standards are steel hardware (SS 304/316) with EPDM rubber gaskets to ensure a teak-proof and corresion-resistant seal. The tanks shall be mounted on a leveled RCC or steel foundation, and installation shall include all necessary accessories such as inlet, outlet, overflow, drain, air vent, internal bracing, and external support if needed in shall be all necessary accessories such as inlet, outlet, overflow, drain, air vent, internal bracing, and external support if needed in shall be carried out after installation to verify performance and structural integrity. The entire installation must conform to relevant IS standards and industry norms GRAY WATER TREATMENT PLANT-5KLD amECHANICAL EQUIPMENT bigTP -FRP TANKS-INCLUDING Description Rate Description Rate Description Rate Description Plant is to the skid appx 3.1m L x 5m W x 1.7m Ht Note: Site fabrication only possible, since its basement Bara screen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank:	gg of 3 numbers of modular panel-type FRP (Filber Reinforced Plastic) water storage tanks, reight), with a total volume of approximately 6.9 kilolitres (KL) including freeboard, as per this, food-grade, UV-stabilized FRP/GRP panels suitable for possess water storage, in, structural rigidity, and long service life. The standard tank wall blickness shall be as mm, top cover panels 4 mm to 6 mm, and connertreinforcement areas shall be strengthened using stanless steel hardware (SS 304/316) with EPDM rubber gaskets to ensure a leak-leveled RCC or steel foundation, and installation shall include all necessary accessories such thole, and external support if needed. Hydrostatic testing shall be carried out after installation nust conform to relevant IS stendards and industry norms **Description** **Description** **QUANTITY* **Rate** **QUANTITY* **Rate** **QUANTITY* **Rate** **AMOUNT** **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water* **QUANTITY* **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water* **QUANTITY* **PR skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water*
a MECHANICAL EQUIMENT b GTP - FRP TANKS-INCLUDING AUTOMATIC GREY WATER TREATMENT PLANT-SKLD AUTOMATIC GREY WATER TREATMENT PLANT-SKLD AUTOMATIC GREY WATER TREATMENT PLANT-SKLD amECHANICAL EQUIPMENT bigtp - FRP TANKS-INCLUDING Description Description Outline of the skid spx 3.1m L x 5m W x 1.7m Ht Note: Site fabrication only possible, since its basement Bar acreen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank: FRP thickness hall be firm.	Description QUANTITY Rate UNIT AMOUNT g of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water
AUTOMATIC GREY WATER TREATMENT PLANT-SKLD aMECHANICAL EQUIMENT bigTP - FRO TANKS-INCLUDING Description Description Description QUANTITY Rate UNIT Design, Fabrication, Supplying, Installing, Testing and Commissioning of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water tank FRP thickness shall be 6mm. Overall dimension of the skid appx, 3.1m L x 5m W x 1.7m Ht Note: Site fabrication only possible, since its basement Bar screen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC: FRP Equalization Tank:	Description QUANTITY Rate UNIT AMOUNT g of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water
aMECHANICAL EQUPIMENT biGTP -FRP TANKS-INCLUDING Description Description Description Description Description Description Description Description Output Rate Description Description Output Rate Description Output Rate Description Description Output Rate Description Out	Description QUANTITY Rate UNIT AMOUNT g of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water
Description Design, Fabrication, Supplying, Installing, Testing and Commissioning of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water tank. FRP thickness shall be 6mm. Overall dimension of the skid appx 3.1m L x 5m W x 1.7m Ht Note: Site fabrication only possible, since its basement Bar screen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC: FRP Equalization Tank:	Description QUANTITY Rate UNIT AMOUNT g of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water
Design, Fabrication, Supplying, Installing, Testing and Commissioning of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water tank FRP thickness shall be 6mm. Overall dimension of the skid appx. 3.1m L x 5m W x 1.7m Ht Note : Site fabrication only possible, since its basement Bar screen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank:	ng of FRP skid consisting of Bar screen, Equalization tank, Aeration tank and Treated water
FRP thickness shall be 8mm. Overall dimension of the skid appx 3.1m L x 5m W x 1.7m Ht Note : Site fabrication only possible, since its basement Bar screen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank :	1 Skid
Note: Site fabrication only possible, since its basement Bar acreen chamber: Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank:	1 Skid
Size - 0.5m L x 0.5m W x 0.6m Ht, MOC : FRP Equalization Tank :	1 Skid
Equalization Tank:	1 Skid
Size - 1m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 2.5KL	T SKIG
Including Air grid arrangement using UPVC pipes Inlet, cutlet, Drain and over flow Nozzles to be provided	
Aeration Tank : Size - 1m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 2.5KL	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Treated water Tank: Size - 0.6m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 1,5KL	
Inlet, outlet. Drain and over flow Nozzles to be provided-ion exchange/E5 Enviro technologies	
Design, Fabrication, Supplying, Installing, Testing and Commissioning of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage water flow and prevent higher size debris from entering into the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No. degree to the horizontal with hand track etc as required. Size of the screen 500mm Length x 600mm Ht-lon exchange/E5 Enviro technologies	%E5 Enviro technologies
Supplying, Installing,Testing and Commissioning of Centrifugal, Monoblock, horizontal raw water pumps to pump grey water from equalisation tank to aeration tank suitable for handling minimum 2-5 mm solid particles having a liquid discharge rate of minimum 0.5 m3/hrs at a head of 10 meters suitable for 2 Set operation on 1 phase 240 Volt AC supply etc as required., (1 working and 1 Stand by = 2 nos) -KBL/CRI/Lubi	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No.
Supply, Transportation, installation, Testing & commissioning of diaphragm type operation Air blower including piping arrangement, ball valve, NRV for 240± 10% volts, 1 phase A/C supply etc as required. minimum 12 m3/hrs at a head of 2 meters(1 working and 1 Stand by = 2 nos) -Fujimac /Hailea 2 Set	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 No. No. No. No. No. No. No. No
Supplying, Installing, Testing and Commissioning of Centrifugal, Monoblock, horizontal Filter Feed pump having a liquid discharge rate of minimum 0.5 m3/hrs at a head of 25-30 meters suitable for operation on 1 phase 240 Volt AC supply etc as required., (1 working and 1 Stand by = 2 nos) -KBL/CRI 2 Set	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No. No. he screen 500mm Length x 600mm Ht-lon exchange/E5 Enviro technologies noblock, horizontal raw water pumps to pump grey water from equalisation tank to aeration a liquid discharge rate of minimum 0.5 m3/ms at a head of 10 meters suitable for titing and 1 Stand by = 2 nos) -KBL/CRI/Lubi hragm type operation Air blower including piping arrangement, ball valve, NRV for 240± at a head of 2 meters(1 working and 1 Stand by = 2 nos) -Fujimao /Hailea 2 Set
Supplying of Multi Grade filter of FRP construction with Fully automated multiport valves, suitable supports for mounting, pressure guage etc,complete as per the detailed specification for the efficient working of system. The maximum working Pressure shall be 2 Kg/Sqcm. H.O.S -65 inch. Diameter - 14 inch. Multiport valve - side mounted-lon exchange/Pentain/Tata	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 in screen 500mm Length x 600mm Ht-lon exchange/E5 Enviro technologies No. hoblock, horizontal raw water pumps to pump grey water from equalisation tank to aeration a liquid discharge rate of minimum 0.5 m3/hrs at a head of 10 meters suitable for triing and 1 Stand by = 2 nos) -KBL/CRI/Lubi Arragm type operation Air blower including piping arrangement, ball valve, NRV for 240± at a head of 2 meters(1 working and 1 Stand by = 2 nos) -Fujimao /Hailea Set inclock, horizontal Filter Feed pump having a liquid discharge rate of minimum 0.5 m3/hrs
Supplying of Activated carbon filter of FRP construction with Fully automated multiport valves, suitable supports for mounting, pressure guage etc,complete as	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 No. No. No. No. No. No. No. No
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por the detailed specification for the efficient working of system. The maximum working Pressure shall be 2 Kg/Sqcm. H.O.S65 inch. Diameter - 14 inch. 1 Multition valve - side mounted-on exchange/Pentair/Tata. Supplying, installation, Testing & commissioning of single phase dosing pump set having flow rates 0-6 LPH and LDPE dosing tank 100 litrs for storage 2 Set of ch-URL/E-Doseorine dosing solution as refluired. Instruments: Pressure sease - Dial size - 2.5 inch-ORG/Gaumer Supply of Auto motor control Panel with necessary saftey ancillaries connecting Grey water transfer pump, Blowers, Filter Feed pump, chlorine dosing unit 1 Lot including cabling level switch atc completeIon exchange/Aster-ion e	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 in screen 500mm Length x 600mm Ht-lon exchange/E5 Enviro technologies 1 No. No. Set No. Set No. Set No. Set No. Set No. Set No. No. No. No. No. No. No. No
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	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No. he screen 500mm Length x 600mm Ht-Ion exchange/E5 Enviro technologies 1 No. hoblock, horizontal raw water pumps to pump grey water from equalisation tank to aeration
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10% volts, 1 phase A/C supply etc as required. minimum 12 m3/hrs at a head of 2 meters(1 working and 1 Stand by = 2 nos) -Fujimac /Hailea	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No. No. he screen 500mm Length x 600mm Ht-Ion exchange/E5 Enviro technologies 1 No. noblock, horizontal raw water pumps to pump grey water from equalisation tank to seration a liquid discharge rate of minimum 0.5 m3/hrs at a head of 10 meters suitable for 2 Set
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tank suitable for handling minimum 2-5 mm solid particles having a liquid discharge rate of minimum 0.5 m3/hrs at a head of 10 meters suitable for 2 Set	ig of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage the Collection tank at the very entry point itself of the tank. Screen kept inclined at 45 1 No.
	ng of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage
water flow and prevent higher size debris from entering into the Collection tank at the very entry point itself of the tank, Screen kept inclined at 45 1 No.	%E5 Enviro technologies
Inlet, outlet, Drain and over flow Nozzles to be provided-ion exchange/E5 Enviro technologies Design, Fabrication, Supplying, Installing, Testing and Commissioning of FRP type bar screen with 10 mm normally placed gaps in screen to allow sewage	
Size - 0.6m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 1.5KL	
Inlet, cuttlet, Drain and over flow Nozzles to be provided Treated water Tank:	
Including Air grid arrangement using UPVC pipes	
Including Air grid arrangement using UPVC pipes	
Including Air grid arrangement using UPVC pipes	
Including Air grid arrangement using UPVC pipes	
Including Air gra arrangement using U-VC pipes Inleit, outlet, Drain and over flow Nozzies to provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Treated water Tank:	
Treated water Tank: Size a CRU L 41 fm W v 4 7m Ht MCC : ERP Capacity 4 5KI	
Size - 0.6m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 1.5KL	
Treated water Tank:	
Treated water Tank:	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Intels, cutlet, Drain and over flow Nozzies to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Intelligent Bright and Indignate the Indignate Bright Brig	
Including Air grid arrangement using UPVC pipes	
including Air grid arrangement using UPYC pipes Helet outlier Drain and Near flow Nozdes to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Including An grid an angent on using 6 × 6 pipps Injet, outlet Drain and over flow Nozzies to be provided	
Including Art grid arrangement using UPV-0 pipes	
Including An grid an angent on using 6 × 6 pipps Injet, outlet Drain and over flow Nozzies to be provided	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Treated water Tank:	
Teated water Tank:	
Treated water Tank:	
Treated water Tank:	
Inlet, outlet, Drain and over flow Nozzles to be provided	
Including Air grid arrangement using UPVC pipes	
Size - 1m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 2.5KL	
Size - 1m L x 1.5m W x 1.7m Ht, MOC : FRP, Capacity : 2.5KL	

		TOTAL GR	EY WATER TREATI	MENT PLANT-5 KLD	1 1 ple
27	WATER TREATMENT PLANT-6 KLD-1000 LPH WITH SOFTNER				
	The work includes the supply, installation, testing, and commissioning of a complete skid-mounted Water Treatment Plant (WTP) with a capacity of 6 KLD (1000 Litres Per Hour), designed to deliver treated water that meets applicable quality standards and complies with Pollution Control Board (PCB) norms for potable or process use. The system shall be of lon Exchange make or equivalent, and incorporate pre-treatment, filtration, and softening units, engineered to handle input water with typical turbidity, hardness, and TDS values as per site conditions. The treatment train shall include a raw water feed pump, multi-grade filter (MSF) for unbidity and suspended solids removal, an activated carbon filter (ACF) for organic contaminants and odor removal, and a high-efficiency water softener unit for hardness reduction, all housed in FRP or MSRL pressure vessels. The softener shall use food-grade for envolval, and a high-efficiency water softener unit for hardness reduction, all housed in FRP or MSRL pressure vessels. The softener shall use food-grade by the new and accessories. The plant shall include an automatic or semi-automatic regeneration system using industrial-grade skill (NaCl), complete with brine and accessories. The plant shall include an automatic or semi-automatic regeneration system using industrial-grade skill (NaCl), complete with brine and accessories. The plant shall include an automation. Provision for backwash, rinse, and regeneration shall be incorporated with approxise drainage piping. The treated water shall comply with BIS 10500 standards for potable applications or IS 4985/10500 standards for process use, with TDS, hardness, iron, and turbidity within permissible limits. All materials used shall be corrosion-resistant and suitable for confinuous operation. After installation, the system shall be tested under live conditions and commissioned, with performance testing, OSM manual, and water quality report submitted to the Engineer-in-Charge (EC) for approval.				
	RAW WATER CHARACTERISTICS:-				
	PH : 6.5 - 8.5 Hardness : < 500 mg/l WTP TREATED WATER CHARACTERISTICS:- PH : 6.5 - 8.5				
_	Hardness: < 50 mg/i Design Basis : Flow Rate : 6.0m3/hr				
1	OBR (Operation Between Regneration): 48.0 m3 Filter Feed Pump Quantity: 2 Nos (1W+1SB) Type: Monobloc Centrifugal, Horizontal Pump	2		Nos	
	Type : worloobe Centiningal, Horizonial Pump Flow: 1000 LPH Head: 30 MWC MOC: CI Motor: 1.5 HP Make: Lub/Kridoskar/Eqvt				
2	Hypo Dosing Pump and tenk Type: Electronic Dosing Pump Capacity: -0.1PH @ 4 Bar Quantity: 1 No.	1		Nos	
3	Tank Capacity : 100 Liters Make : Vertito/NZO/Eqvt Pressure sand filter	1		Set	
	FQuantity : 1 No. Duty : To remove Suspended Solids from treated water. Flow Rate : 1000 LPM Flow Rate : 1000 LPM Size : 16° x 60° MCC : FRP Frontal Pipeline : 1 Lot - 32 NB UPVC Type of Valve : Automatic Multiport Valve - 32 NB - 1 No. Distribution Inlet : Strainer Distribution Cultet : Strainer Media : Graded Pebbles and Sand. Make : Pentalir/Tata/Fg/ty				
	Activated carbon filter Quantity :1 No. Duty :10 remove the organic traces, colour and odour from raw water Flow Rate :1000 LPH Size :16* 560* MOC :FRP Frontal Pipeline :1 Lot - 32 NB UPVC Type of Valve : Automatic Multiport Valve – 32 NB - 1 No. Distribution Intel : Strainer Distribution Outlet : Strainer Distribution Outlet : Strainer Modia : Graded Pebbles and Sand.	1		Set	
	Make : Pentair/Tata/Eqvt Softenor Filter Quantity : 1 No. Duty : To remove hardness from treated water. Flow Rate : 1000 LPH Size : 16** 60* MCC : FRP Frontal Pipeline : 1 Lot - 32 NB UPVC Type of Valve : Automatic Multiport Valve — 32 NB - 1 No. with Ejector	1		Set	
	Distribution Inlet : Strainer Distribution United : Strainer Resin Oty : 300 Ltrs Resin Make : Ion Exchange 220 Na/Eqvt Salt : 48 Kgs Capacity of Brine Tank : 200 Ltrs MOC of Brine Tank : PO OBR : 155.0 m 3 Make : Pentair/Tata/Eqvt Mod of Prine Tank : PO OBR : 155.0 m 3 Make : Pentair/Tata/Eqvt Mod of Prine Tank : PO OBR : 155.0 m 3 Make : Pentair/Tata/Eqvt Mod of Prine Tank : PO OBR : 155.0 m 3 Make : Pentair/Tata/Eqvt Mod of Prine Tank : Po OBR : 155.0 m 3 OBR : 155.0				
`	Inter Connecting Pitinia Inti Fittinia and Valves MOC : UPVC SCH 40 Make : Astral/Aashirvad/Edvt	1		Lot	
	Control Panel for Pump 1 No. Control Panel - Non compartmental - Indoor - Wall mountable - type for the following electrical drives:- a). Filter Feed Pump : 2 Nos b). Hypo Doising System : 1 No. c). Lavel Switch : 1 Nos with 5 meters cables di. Suitable in Plant Cable : 1 Lot	1		Set	
	Instrumentation's for UF System Pressure Gauge, Level Switch and Rota meter	1		Lot	
	WATER TREATMENT PLANT-6 KLD-1000 LPH WITH SOFTNER GAS PLANT		201		
	The work involves the supply, installation, testing, and commissioning of an 8-cylinder LPG gas manifold system, complete with all associated fittings, valves, and safety equipment, along with copper pipeline work extending from the ground-level cylinder bank up to a kitchen located on the 6th floor. The LPG manifold system will consist of 8 nos. LPC cylinders (4 working 4 4 standby or as required), connected via heavy-duty high-pressure rubber hoses with brass end fittings, mounted on a powder-coated MS manifold frame. A changeover valve will be included to allow automatic or manual switching between working and standby cylinders. The pipelline from the manifold to the kitchen shall be constructed using Type-L or heavy-duty ISI-marked copper pipes of appropriate diameter (typically 15im no to 25mm OD), brazed using silver brazing rods to ensure leak-proof joints. The piping will be converted along the building structure using heavy-duty saddles or clamps at regular intervals and laid with suitable slope for drainage. The installation shall include a pressure augustor (high-pressure or low pressure, depending on burner type), isolation ball valves at strategic points and at the kitchen intel, filame stores, and pressure gauges for monitoring. All works shall be done in accordance with 15 6044 and PESO norms, ensuring proper ventilation and safety clearance. Necessary wall sleeves, fire-seated penetrations, and labelling will be provided. The system shall be teak-tested with nitrogen or soap solution and commissioned in the presence of a certified gas technician. A completion report and safety certificate shall be furnished post-installation.	1		Nos	
	SULAR WATER HEATER-1900 LPD Supply and installation of the Solar Water Heater system with a capacity of 1000 Litres Per Day (LPD), including a 500-litre stainless steel (SS) storage tank (Make: Venus or equivalent), is designed for efficient and reliable domestic or commercial hot water supply. The system typically consists of either Flat Plate Collectors (FCP) made of borositive coaling or Evacuated Tube Collectors (FCP) made of borosities glass tubes, both mounted on a durable powder-coaled MS or aluminum frame with optimal till and south-facing orientation. The collector area ranges between 10 to 15 square meters depending on the type and efficiency. The system includes a 500-litre inner tank made of food-grade stainless steel (SS304/SS316) with 1.5–2 mm thickness, insulated with 50–75 mm thick high-density PUF and encased in an outer powder-coaled GI or aluminum shell, capable of withstanding pressures up to 2.5 bar in pressurized configurations. Hot water output reaches temperatures of up to 60°C under standard solar radiation. The system comes equipped with essential plumbing such as insulated piping, valves (ball valve, non-return valve, air vent, and pressure relief valve), and an optional electric backup heater of 2–3 kW with thermostat control. It is suitable for installation on RCC or metal roofs and occupies approximately 12–20 square meters of space. The system is MLDE approved, BIS certified, has a life expectancy of 15–20 years, and typically comes with a 5-year warranty on the tank and collectors.	1		Nos	
	Hot water output reaches temperatures of up to 60°C under standard solar radiation. The system comes equipped with essential plumbing such as insulated piping, valves folal valve, non-return valve, air vent, and pressure relief valve, and an optional electric backup heater of 2-3 kW with thermostatic control. It is suitable for installation on RCC or metal roofs and occupies approximately 12-20 square meters of space. The system is MIRE approved, BIS certified, has a life assertance of 31-2-20 years, and thirefully consequently a fixed presentation of the system is MIRE.				

	Name of the Work : APARTMENT -INDIAN BA ABSTRACT ESTIMATE - PLUMBING AND SANITAR				
NO	DESCRIPTION	QUANTITY	Rate	UNIT	AMOUNT
	A) SANITARY FIXTURES & FITTINGS INCLUDING (Providing and fixing)				
1	Supplying and fixing in position White / Colour Glazed Model WALL MOUNTED European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting withCl pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing low level flushing tank with a pair of Cl brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, suc as, 15mm bras connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the Cl brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works) Floor Fitting	5		Nos	
	EWC: LAS-WHT-91953BIUFSM-JAQUAR DROPLET FACEPLATE POLISHED CHROME -JCP-CHR-152415-JAQUAR			-	
	CONNECTOR ACCESSORY PACK -JAQUAR				
_	M12 RACK BOLTS FOR WH INSTALLATION -JAQUAR INSTA FLUSH MECH. JCS-WHT-2400WS-JAQUAR				
2	Supplying and fixing in position White / Colour Glazed Model WALL MOUNTED European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting withCl pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing low level flushing tank with a pair of Cl brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, suc as, 15mm bras connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the Cl brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works) Floor Fitting	20		Nos	
	EWC: ONS-WHT-10953BIUFSM-JAQUAR				-
	DROPLET FACEPLATE POLISHED CHROME -JCP-CHR-152415-JAQUAR				-
	CONNECTOR ACCESSORY PACK -JAQUAR M12 RACK BOLTS FOR WH INSTALLATION -JAQUAR				
-	INSTA FLUSH MECH. JCS-WHT-2400WS-JAQUAR				-
3	Supply & installation of JAQUAR ESSCO make Squating Pan with rubber buffers, complete with internal syphon fittings and finish, together with connection pipe to the squating pan.Including cutting & making good the walls & floors wherever required.	2		Nos	-
	SQUATING- ECS-WHT-455LEJAQUAR				
	Fixing of the above squating pan complete with supply of CPVC connectors, & necessary fasteners, fixing of the angle cock connection pipe to the pan. Providing water to the squating, together with cutting and making good the walls and floors wherever required				-
4	Supply & installation of approved make wall mounting taller type European water closet. Cistern with elbow operated knob, C.P. bolts, nuts, toilet seat and cover complete with all accessories. Including cutting & making good the walls & floors wherever required.	5		Nos	
	EWC -FLS-WHT-5353PPZ-JAQUAR CONNECTOR ACCESSORY PACK AND CONNECTING HOSE(ANGEL COCK TO EWC)				-
	Angle Stop Valve: AQT-CHR-3057P-JAQUAR				-
	Fixing of the above closet complete with supply of PVC / Brass Pan connectors, & necessary fasteners, fixing of the angle cock & CP brass connection pipe to the cistern. Providing water & Soil connections to the closet, together with cutting and making good the walls and floors wherever required.				
5	Wash Hand Basin of size with all accessories such as Cast Iron Brackets, 32mm dia CP Waste Coupling, Rubber Plug and Chain, 32mm dia 'B' Class GI Waste Pipe, 15mm dia GM Wheel Valve, 15mm dia Nylon Connection, 15mm dia Brass Nipples, 15mm CP Pitlar Tap etc	25		Nos	-
	ABOVE COUNTER WASH BASIN-JDS-WHT-25907N-JAQUAR				-
	PILLAR COAK:KUP-CHR-35441KPM-JAQUAR				-
	CONCEALED:ALD-CHR-441-JAQUAR Grid Drain With Over Flow Hole - ALD-CHR-727L130-JAQUAR				
	Standard Bottle Trap -ALD-CHR-769L300X190-JAQUAR		1		
	We will be a second of the sec				
6	Wash Hand Basin of size with all accessories such as Cast Iron Brackets, 32mm dia CP Waste Coupling, Rubber Plug and Chain, 32mm dia 'B' Class GI Waste Pipe, 15mm dia GM Wheel Valve, 15mm dia Nylon Connection, 15mm dia Brass Nipples, 15mm CP Pillar Tap etc	5		Nos	
	ABOVE COUNTER WASH BASIN-OPS-WHT-15931PM-JAQUAR				
	PILLAR COAK:FLP-CHR-5011PM- JAQUAR CONNECTING HOSE				
	Grid Drain With Over Flow Hole - ALD-CHR-727L130-JAQUAR				
	Standard Bottle Trap -ALD-CHR-769L300X190-JAQUAR Angle Stop Valve-AQT-CHR-3057P-JJAQUAR				
7	Wall Mounted -Wash Hand Basin of size with all accessories such as Cast Iron Brackets, 32mm dia CP Waste Coupling, Rubber Plug and Chain, 32mm dia 'B' Class Gl Waste Pipe, 15mm dia GM Wheel Valve, 15mm dia Nylon Connection, 15mm dia Brass Nipples, 15mm CP Pillar Tap etc	2		Nos	
	Wall MOUNTED- WASH BASIN-CNS-WHT-801-JAQUAR				
	PILLAR COAK:FLP-CHR-5011PM- JAQUAR				
	CONNECTING HOSE				
	Grid Drain With Over Flow Hole - ALD-CHR-705 -JAQUAR Standard Bottle Trap -ALD-CHR-769L300X190-JAQUAR				
	Angle Stop Valve-AQT-CHR-3057P-JJAQUAR				
8	Providing and fixing Hand Spray / with Button control (Health Faucet) with pressure including flexible hose 1m/1.2m long connection and holder for hand spray making good the same, complete of Engineer-in-charge. Polished Chrome Finish Brass 15 mm dia bore angle valve Note: Rate should be inclusive of lifting charges.	30		Nos	
	Health Faucet -ALD-CHR-573 ,HOSE-SHA-CHR-549D8-JAQUAR				
	मिर्सर, व्यय एवं संपूर्ण विभाग Premises: Exerciture & Estate Dept.				

_	Angle Stop Valve-AQT-CHR-3057P-JJAQUAR			
9	supply and fixing of shower set including mixer and round showr arm.with all necessary screw fitting to complete of Engineer-in-charge	5	Nos	
	DIVERTORALD-CHR-681N -JAQUAR-THERMOSAT			
	CP COVER-KUP-CHR-35681NKPM-JAQUAR			
	HAND SHOWER-HSH-CHR-1731 WITH HOSE-SHA-CHR-549D8			
	ANGEL HOLDER HAND SHOWER-SHA-CHR-566S-JAQUAR			- 8
	RAIN JOY-OHS-CHR-1619-JAQUAR			
	SHOWER HARM-SHA-CHR-455L600-JAQUAR			
10	supply and fixing of shower set including mixer and round showr arm.with all necessary screw fitting to complete of Engineer-in-charge	15	Nos	
	DIVERTORALD-ALD-CHR-065M-JAQUAR			-
	CP COVER-LAG-CHR-91065MK-JAQUAR			
	HAND SHOWER-HSH-CHR-1937 WITH HOSE-			
	ANGEL HOLDER HAND SHOWER-SHA-CHR-555JAQUAR			
	OUTELT TAP- SPJ-CHR-15463PM-JAQUAR			
	SHOWER HARM-SHA-CHR-479L450-JAQUAR AND ROUND -OHS-CHR-1789			
	The state of the s			
11	supply and fixing of shower set including mixer and round showr arm.with all necessary screw fitting to complete of Engineer-in-charge	5	Nos	
	DIVERTORALD-CHR-065M-JAQUAR			
	CP COVER-FLP-CHR-5065MKPM-JAQUAR			
	OUTELT TAP- SHA-CHR-477-JAQUAR			
	SHOWER HARM-SHA-CHR-4770-JAQUAR AND ROUND -OHS-CHR-1789			
12	supply and fixing 25 ltrs gyser-VRM-WHT-HD035-JAQUAR work shoud inclusive of 2 number of angel cock and connect hose and asseries with all necessary screw fitting to complete of Engineer-in-charge	5	Nos	
13	supply and fixing 25 ltrs gyser-MET-WHT-PV025-JAQUAR work should inclusive of 2 number of angel cock and connect hose and asseries with all necessary screw fitting to complete of Engineer-in-charge	20	Nos	
14	Providing and fixing of Polished Chrome Finish Brass Single Coat Hook with all necessary screw fitting to complete of Engineer-in-charge. Note: Rate should be inclusive of lifting charges: AKP-CHR-35761P	50	Nos	
15	Providing and fixing of Polished Chrome Finish Brass Single towel bar with all necessary screw fitting to complete of Engineer-in-charge. Note: Rate should be inclusive of lifting charges: AKP-CHR-35711P	25	Nos	-
	Supplying and fixing of SS Sink of size-sink MARINO 36*19*9-singel liver outlet-FLP-CHR-5179BPM,angel cock-AQT-CHR-3057P and connecting hose			
16	Providing and fixing of Approved 'make single bowl sink with drain points for connect the waste couplers, with necessary supports, brackets, bolts, nuts, at equal intervals, etc, Fixing of Double bowl sink, wall hook and angle valve, including wall chasing, making good the same, complete.of Engineer-in-charge. Note: Rate should be inclusive of lifting charges(KITCHEN AREA)	5	Nos	-
17	Providing and fixing Polished Chrome Finish Brass Wall Mounted Single Toilet Paper Holder with cover. with CP brackets fixed to wooden cleats with CP brass screws.of Engineer-in-charge. Note: Rate should be inclusive of lifting charges:ACN-CHR-1153S	30	Nos	-
18	Providing and fixing of approved make, matt finish Cockroach trap 125 x 125 mm SS floor grating with Hinge of Engineer-in-charge.Note: 7275IN-CP	98	Nos	-
	Providing and fixing of approved make, chrome finish stop cock of Engineer-in-charge. OPP-CHR-15083KPM-stope cock ALD-CHR-089FT-conceled	45	Nos	
	The state of the s			
19	supply installtion of tap-FLP-CHR-5037PM-jaquarof Engineer-in-charge.	2	Nos	
9-A	supply and instillation of shower booster pump its includeds of all the assessorsriesfittingof Engineer-in-charge.	5	Nos	_



	. Name of the work: PROPOSED RESIDENTIAL DEVELOPMENT FOR INDIAN BANK, \mathbf{M}	USURI SI	UBRAMA	NIAM SALA	I, MYLAPOI	RE		
	ELECTRICAL INSTALLATION PART-A: MEDIUM VOLTAGE INSTALLATION LIKE M.V. SWITCHBOARDS, DI	STRIBUT	TON BOA	RDS, EART	HING, ETC.			
S.No.	Description	Unit	Qty.		pply	Erec		Total
1		Nos	1	Rate	Amount	Rate	Amount	-
Ė	Supply of 3 way RMU, with configuration of Two LBS and VCB R-R-L [M+CCT2] as per TANGEDCO Specifications.(Provisional) Supply and Erection of other materials except RMU as per attached annexure.(Provisional)	Nos	1		-			
-	Charges of coordinating with TNEB MRT/O&M(Provisional) TOTAL OF PART-A(i) C/o TO SUMMARY:	Nos	1			4000		
la.	Supply, erection, testing & commissioning of floor mounting type Cubicle pattern, front operated M.V. Switchboard fabricated from 16 SWG sheet steel with adequate reinforcement, foundation bolts, 40 x 6mm. Aluminium flat earthing enamel coat paint finished with							
	Opaline green or Powder coated paint (RAL 7032) equipped with the following:							
	No. 250A TPN isolator. I Set of 300A TP cutouts including neutral link with rewirable type fuses. (sealable type).							
	1 set SMC mounted disconnectable neutral link made out of 40x6mmm tinned copper mounted on 2nos. of 25 mm dia SMC spout.							
	(The incoming outgoing switch shall have locking sualing arrangement by Electricity Board.							
	Note: Neutral wires/busbars and interconnecting wires/busbars shall be same size as phase wires/busbars. OUTGOING:-							
-	6 Nos. 63A 4P 10KA MCB. 6 Sets (6 sets of 100A rewirable cutouts (3 Nos. for each set for R,Y& B phases) with 6 sets of neutral links made out of 25 X 3 mm tinned							
	copper mounted on 2nos. 25mm dia SMC spout as control. 5 Sets (5 sets of 100A rewirable cutouts (3 Nos. for each set for R,Y& B phases) with 10 sets of neutral links made out of 12 X 3 mm.		-					
	timed copper mounted on 2nos. 25mm dia SMC spout as control. 10 Sets of 63A 4P ATS (Motor operated Auto transfer switch of Socomec/ Havels make) complete with control wiring, protection circuit,							
	indicating lamps, provision for manual operation, 2sets of seperate R,Y,B & ON LED status indication, etc.							
	The board shall have provision for KWH meter of 30 or 100A (To be supplied and sealed by Electricity Board) Rate shall be for the complete board with danger caution board, interconnections, etc.							
	The board shall be equipped with 40 X 6mm aluminium busbars duly colour sleeved by heat shrink type sleeves for phase & neutral duly supported at regular intervals not exceeding 450mm with 10mm thick SMC sheet, removable cut out fuses to match the rating of the							
	incoming/outgoing fuse switches with provision for sealing by electricity board, a KWH meter chambber with 5mm thick transparent							
	perpex sheet at the front for reading purpose with sealing provision by TNEB.							
	All incoming and outgoing cables shall have top/bottom entry. Rate shall be for the complete board with danger caution borads, feeder identification marks, rigid interconnections, cadmium plated bolts and nuts, etc.							
	Note 1: The meter board shall be economical and semi cubicle type with separate chamber for busbars, meters, MCB, etc. It shall be simple in design and as per relevant of TANGEDCO & CEIG.							
	2) The meter board to be erected from the ground with min 450-600mm clearence. To achieve this the meter board to be fabricated with single outgoing in each vertical with M.S. pedestral to obtain the required ground clearence.							
2	(Refer Mcter Panel). Same as above but switchboard meant for common services with following combinations	Set	1		→		•	
2.	INCOMER:					=		
	1 No. 160A 4P 10KA MCB. 1 Set of R. Y. B indicating lamps							
	OUTGOING: VTPN 8 way MCB DB fitted with:							
	5 Nos. 63A 10KA 4P MCB. 3 Nos. 40A 10KA 4P MCB.							
1	(Refer SB-C of schematic diagram). Same as above but with the following	Set	1		1.7			
J.	INCOMER: 1 No. 400A 4P 25KA MCCB.							
	1 Set of ON & OFF LED indicating lamps							
	1 Set of R, Y, B indicating lamps OUTGOING:							
	VTPN 10 way MCB DB fitted with 10No. 63A 4P 10KA MCB and 2Nos.							
4	(Refer SB-DG of schematic diagram). Same as above but with the following:	Set	1					
	INCOMER: 1 No. 16A TP+N 30mA RCBO.							
	OUTGOING: TPN 6 way MCB DB fitted with 3 Nos. 16A DP MCB for phase control & 18 Nos. 6-10A SP MCB (common area LDB)		-					
	(Refer LPDB-C).	Set	1		(4)		+	745
5.	Supply and installation of earth electrode as per IS-3043 with cast iron earth electrode complete with excavation of earth, blasting if recessary, re-filling with soil treating madia like charcoal, salt, etc. The earth electrode shall be of 100mm dia 6.5mm thick 3.0mtrs. long							
	complete with finnel etc. Rate shall be inclusive of brick work, cast iron or RCC heavy duty cover slab, identification mark of earth electrode, testing, furnishing test reports, etc. as per G.A. drawing.							
	,							
	26. 2. 24	Each	2		365			397
6.	Meter Panel - 2# Supply and installation of earth electrode with 3/4" dia, 10 feet long, UL listed, min 254 micron copper coating over mild steel. Each earth							
	electrode shall be supported with RoHS certified, low resistivity (\$0.2 ohm mtr) Ground Enhancement Material (min 22.6 Kg), performs in all soil condition, increases the contact area with earth electrode, A suitable clamps shall be used for termination of down conductors to							
	earth electrode. The resistance shall be $\leq 10 \Omega$. Rate shall be inclusive of brick work, cast iron or RCC heavy duty cover slab, identification mark of earth electrode, testing, furnishing test reports, etc. (The earth electrode along with other materials shall be of							
	OBO/DHEN/INDLEC make only) For Lifts: 1 (2# for lifts)	Each	2		-			- 17.1
7a.	Supply and laying of 25 x 6 mm. G.I. flat with M.S spacer clamp, etc. for body earth. (For main grid earthing from building to ground).	Mtr	100		Lec .			79
b.	Same as above but 25 x 3mm G.I. flat (For secondary earthing like meter boards, vertical riser, etc.).	Mtr	75		(*)		-	540
c. d.	No. 8 SWG G.I. wire. No. 10 SWG G.I. wire.	Mtr Mtr	75 30				1	12.
e. 8a.	No. 8 SWG copper wire for lift control panel earthing. Supply and installation of 63A TPN 10KA MCCB mounted on a suitable size cubicle type M.S.box with floor/wall mounting frame work	Mtr	100		36			79.0
b.	Complete with cable adoptor boxes, R, Y & B LED type indicating lamps, etc. (Provisional) Same as above but 32A TPN 10KA MCB.	Set Set	QRO QRO					
c.	Same as above but 63A TPN fluse switches with HRC fluses.	Set	QRO					
d.	Same as above but 32A TPN fuse switches with HRC fuses.	Set	QRO					
9.	Supply & installation of heavy duty low loss capacitor bank suitable for operation 415 volts 3 phase 4 wire system mounted above the switchboard for P.F improvement with 32A TPN contactor with control circuit, etc to trip the contactor during DG running with the							
	following							3.00
	1 Set of 5 KVAR Capacitor Bank (Provisonal item & to be installed if TANGEDCO insisted) TOTAL OF PART-A C/o TO SUMMARY:	Set	1					
	NOTE ORO - Quote rate only : This may be required or not and will be decided during execution							
	फिल प्रतिसर ब्याय एवं दि	V.	10					
	🗴 (संपद्मतिमार्ग) 🚓							
	Premises, Expenditure							
	A The state of the							

with time income and the imension of the imens	pply, erection, testing and commissioning of wall/floor mounting type cubicle pattern Medium voltage switchboards/ distribution and for power and lighting comprising TPN busbars in of equal size in all phases and neutral made out of 16 SWG sheet steel, reinforced angle iron frame work with adequate rated ned copper busbars to handle full load and short time rating. The switchboard and distribution board shall be equipped with onling fuse switch / MCP / MCCB and outgoing Switch fuses or MCB as per requirement. It shall be complete with thing, feeder identification markers, inter-connections, cable identifications, danger caution boards, incoming and outgoing cable unber, mounting angles, channels, etc. IMCCB/MCB ppp. switchboards/ distribution boards shall be erected on wall with minimum projection from the wall. All oming and outgoing cables/ conduits shall be taken in surface / concealed. The condition of the complete of originally manufactured by the respective and approved supplier and local fabrication shall not be allowed. The observable board shall be of originally manufactured by the respective and approved supplier and local fabrication shall not be allowed. The other complete board including supply and fixing of all components, hardwares, etc. including all connected civil works per the following combinations at different locations. COMING: 10. 80.4 P3 30mA MCCB TIGOING: 10. 80.4 P3 30mA MCCB B fitted with 1 Nos. 63A 4P MCCB & 3 Nos. 32A 4P MCCB control individual phase and outgoing and rest in dummy plates. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Set Set	Qty.	Supply Rate Amount	Erection Rate Amount	Total
with time income and the imension of the imens	ands for power and lighting comprising TPN busbars in of equal size in all phases and neutral made out of 16 SWG sheet steel, reinforced angle iron frame work with adequate rated ned copper busbars to handle full load and short time rating. The switchboard and distribution board shall be equipped with oming fuse switch / MCB / MCCB and outgoing Switch fases or MCB as per requirement. It shall be complete with thing, feeder identification markers, inter-connections, cable identifications, danger caution boards, incoming and outgoing cables unber, mounting angles, channels, etc. IMCCB/MCB type switchboards/ distribution boards shall be taken in surface / concealed. IMCCB/MCB type switchboards/ distribution boards shall be taken in surface / concealed. The entire board shall be of originally manufactured by the respective and approved supplier and local fabrication shall not be allowed. The short shall be for the complete in all respect and shall meet the requirement of local CEIG and other relevant authorities. The rate till be for the complete board shall be supply and fixing of all components, hardwares, etc. including all connected civil works per the following combinations at different locations. COMING: 10. 80A 4P 30mA MCCB TIGOTING: 10. 80A 4P 30mA MCCB DB fitted with 1 Nos. 63A 4P MCCB & 3 Nos. 32A 4P MCCB control individual phase and outgoing and rest in dummy plates. 10. Ball have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm timed copper flat or as per the manufacturer ndard (flichude Surge Protection Devices(SPD). 10. 63A 4P 30mA RCBO TIGOTING: 10. 63A AP 30mA RCBO TIGOTING: 10. 63	Set Set	5			
with timm with timm inco eard char	th of equal size in all phases and neutral made out of 16 SWG sheet steel, reinforced angle iron frame work with adequate rated need copper busbars to handle full load and short time rating. The switchboard and distribution board shall be equipped with oming fuse switch / MCE / MCCB and outgoing Switch fuses or MCB as per requirement. It shall be complete with thing, feeder identification markers, inter-connections, cable identifications, danger caution boards, incoming and outgoing cable unber, mounting angles, channels, etc. MCCB/MCB type switchboards/ distribution boards shall be erected on wall with minimum projection from the wall. All oming and outgoing cables/ conduits shall be taken in surface / concealed. e entire board shall be of originally manufactured by the respective and approved supplier and local fabrication shall not be allowed. e board shall be complete in all respect and shall meet the requirement of local CEIG and other relevant authorities. The rate all be for the complete board including supply and fixing of all components, hardwares, etc. including all connected civil works per the following combinations at different locations. COMING: 10. 80.4 #9 30mA MCCB TIGOING: 11. Avay MCCB DB fitted with 1 Nos. 63A 4P MCCB & 3 Nos. 32A 4P MCCB control individual phase and outgoing and rest in dummy plates. 12. DB shall have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm timed copper flat or as per the manufacturer indirect (include Surge Protection Devices(SPD)). For typical PDB meant for apartments) COMING: 10. 63A 4P 30mA RCBO TIGOING: 11. R way MCCB DB fitted with 3 Nos. 63A DP MCB to control individual phase and 18 Nos. 6A 10KA SP MCB as outgoing and rest in dummy plates. 12. DB shall have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm timed copper flat or as per the manufacturer indirect (include Surge Protection Devices(SPD). 13. R way MCB DB fitted with 3 Nos. 63A DP MCB to control individual phase and 18 Nos. 6A 10KA SP MCB as outgoing a	Sea	5			
income i	oming fisse switch/ MCB/ MCCB and outgoing. Switch fisses or MCB as per requirement. It shall be complete with thing, feeder identification markers, inter-connections, cable identifications, danger caution boards, incoming and outgoing cable imber, mounting angles, channels, etc. IMCCB/MCB type switchboards/ distribution boards shall be exected on wall with minimum projection from the wall. All oming and outgoing cables/ conduits shall be taken in surface /concealed. e entire board shall be of originally manufactured by the respective and approved supplier and local fabrication shall not be allowed. e entire board shall be complete bir all respect and shall meet the requirement of local CEIG and other relevant authorities. The rate ill be for the complete board including supply and fixing of all components, hardwares, etc. including all connected civil works per the following combinations at different locations. COMING: 10. 80A 4P 30mA MCCB TIGOING: PN 4 way MCCB DB fitted with 1 Nos. 63A 4P MCCB & 3 Nos. 32A 4P MCCB control individual phase and outgoing and rest in during plates. DB shall have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm tinned copper flat or as per the manufacturer ndard (Include Surge Protection Devices(SPD). Effect typical PDB meant for apartments) COMING: 10. 63A 4P 30mA RCBO TIGOING: 10. 83 A4P 30mA RCBO TIGOING: 10. 84 way MCB DB fitted with 3 Nos. 63A DP MCB to control individual phase and 18 Nos. 6A 10KA SP MCB as outgoing and rest holumny plates. 10. 63A 4P 30mA RCBO TIGOING: 10. 63 A4P 30mA RCBO TIGOING: 10. 64 AF 30mB RCBO TIGOING: 10. 65	Sea	5			
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as p INC INC INC INC INC INC	COMING: io. 80A 4F 30mA MCCB TIGOING: PN 4 way MCCB DB fitted with 1 Nos. 63A 4P MCCB & 3 Nos. 32A 4P MCCB control individual phase and outgoing and rest h durany plates. DB shall have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm timed copper flat or as per the manufacturer ndard (Include Surge Protection Devices(SPD). effect typical PDB meant for apartments) COMING: io. 63A 4F 30mA RCBO TIGOING: N 8 way MCB DB fitted with 3 Nos. 63A DP MCB to control individual phase and 18 Nos. 6A 10KA SP MCB as outgoing and rest h durany plates. DB shall have exclusive neutral & earth bar mounted on SMC spout with 20 x 6 mm timed copper flat or as per the manufacturer ndard (Include Surge Protection Devices(SPD). feet typical IPDB meant for apartments) phy, laying and dressing of the following sizes of 1.1 KV grade PVC/KLPE insulated flat / round armoured cable with aluminium ductor or copper conductor as specified on wall/ceiling/trench/cable rack with proper clamping, cable identification tags, etc. 2C 120 summ Al Armoured. 25 Summ Al Armoured.	Set	5			
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Suppond	pply, laying and dressing of the following sizes of 1.1 KV grade PVC/XLPE insulated flat / round armoured cable with aluminium ductor or copper conductor as specified on wall/ceiling/trench/cable rack with proper clamping, cable identification tags, etc. 2.C 120 sqmm Al. Armoured. 2.S Sqmm Al. Armoured. 1.6 Sqmm Al. Armoured.		5			
3 1/2/4 4C	/2C 120 symm Al. Armoured. 25 Symm Al. Armoured. 16 Symm Al. Armoured.					
4C 4	25 Squam Al. Armoured. 16 Squam Al. Armoured.					
4C 4C 6 End be in 1 3 1/2 End be in 1 3 1/2 4C 2 4C 6 4C 6 C 6 C 6 Supply 4 rur 4 rur 4 rur 4 rur Unlock 16 Supply	16 Semin Al. Armoured.	Mtr	QRO			
4C 4		Mtr	50			
4C of End for its form of the	10 Summ Al. Armoured. (Provisional)	Mtr Mtr	250 30			
be in be in a state of the stat	6Squon Cu. Armoured.	Mtr	300			-
3 1/2 4C 2 4C 4	d termination to the above cable with single compression type cable gland and heavy duty tinned copper cable sockets. Rate shall inclusive of all sundry materials like adhesive Tapes, PVC sleeves, bolts and nuts, washers, etc. including plugging unused hole.					
4C.		L				
4C 4C 4C 6 4C 6 4C 6 Supp pipe pipe pipe pipe pipe pipe pipe p	/2C 120 summ Al. Armoured.	Each	QRO			
4C 4	25 Sqmm Al. Armoured. 16 Sqmm Al. Armoured.	Each Each	30	0	0	0
Suppipipe 4 rur 4 rur 4 rur 4 rur 4 rur 5 rur 6 rur 6 rur 6 rur 6 rur 6 rur 7 rur 7 rur 8	10 Sqnm Al. Armoured.	Each	2	0	0	0
pipe 4 pipe 6 pi	6Sqmm Cu. Armoured. pply and laying of following sizes of PVC insulated 660 volts grade multistrand copper conductor wire in a suitable size PVC conduit	Each	14	0	0	0
4 rut 4 rut 4 rut End 4 rut End 4 rut Fun	e complete with all accessories, clamps, etc.					
4 rum End 4 rum 4 rum 4 rum 4 rum 1	ans of 10 Sqmm + 2 runs 6 Sqmm in 1 run 32/38 mm dia 1.8 mm thick PVC rigid conduit pipe.	Mtr	230	0	0	0
End 4 rut 4 rut 4 rut 1NT Unlo fixta Supp Supp Supp Supp Supp Supp Supp Sup	uns of 6 Squam + 2 runs 4 Squam in 1 run 25/32 mm dia 1.8 mm thick PVC rigid conduit pipe. (For common area LDB) uns 4 Squam + 2 runs of 2.5 Squam in one run 25 mm dia 1.8 mm thick PVC rigid conduit pipe. (Provisional)	Mtr Mtr	40	0	0	0
4 rum 4 rum 1 rum	I termination to the above with suitable size PVC couplers and crimping type copper sockets	1420		•		
4 rut INT Unloo fixtu Supp Supp Supp Supp Supp Supp Supp Su	us of 10 Samm + 2 runs 6 Samm.	Each	10	0	0	0
INT Unlot Supp Supp Supp Supp Supp Supp Supp Sup	ns of 6 Squan. + 2 runs 4 Squam. ns 4 Squan. + 2 run 2.5 Squam.	Each Each	2	0	0	0
fixtue Supple Su	FERNAL & EXTERNAL AREA LIGHT FITTINGS					0
Supp Supp Supp Supp Supp Supp Supp Supp	loading, Storage, Handling and providing necessary mounting supports with accessories installation testing & commissioning of light ures complete as required as per site condition.					0
Supp Supp Supp Supp Supp Supp Supp Supp	polying Erecting connecting & commissioning of 40W LED PRIDE WEATHER PROOF FITTING, IP65 (6500K)	Nos	55			- 2
Supp Supp Supp Supp Supp Supp Supp WHI Supp	polyting Erecting, connecting & commissioning of 20W LED GLAZE TUBE LIGHT COOL WHITE	Nos	56		8	I h
Supp Supp Supp Supp Supp Supp Supp WHI Supp	physing Erecting connecting & commissioning of LED AREVA PRIME ROUND 12W CW-xc	Nos Nos	8 175	:		
Supp Supp Supp Supp Supp Supp WHI Supp Supp	plying Erecting, connecting & commissioning of LED NERO SURFACE ROUND 12W COOL WHITE	Nos	25			- 32
Supp Supp Supp Supp Supp Supp WHI Supp Supp	oplying, Erecting, connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT	Nos	40	-	5	1.5
Supp Supp Supp Supp Supp Supp WHI Supp Supp	171-12 September of the Commission of the Commis	N	40			
Supp Supp Supp Supp Supp WHI Supp Supp	plying Frecting connecting & commissioning of 6 LT CLEAR GLASS WITH BRUSHED BRASS FINISHING CHANDELIER	Nos	QRO			-
Supp Supp Supp Supp Supp WHI Supp Supp	plying, Erecting, connecting & commissioning of LED INDOOR 15W STRIP LIGHT WARM WHITE plying Erecting, connecting & commissioning of POWER SUPPLY 96W INDOOR 24V, 4A	Nos Nos	250		 	54
Supp Supp Supp WHI Supp Supp	plying Frecting connecting & commissioning of RECESS BARE PROFILE 3000X16X12MM ANODIZED FINISH	Nos	5)*
Supr Supr Supr WHI Supr	plying Erecting connecting & commissioning of LED FRIS ROUND TILTABLE 7W NW plying Erecting connecting & commissioning of OTC ERIS SURFACE ROUND 10W COB DOWNLIGHT WW	Nos Nos	45 125	-		
Supr Supr WHI Supr Supr	2. Commission & Commission Colo Eras Sold ACE ROUND TOW COD DO WILLIAM WW		123			
Supp WHI Supp Supp	plying Erecting connecting & commissioning of 2 LT OPAL GLASS WITH CHROME FINISHING WALL LAMP	Nos	25			
Supp Supp	relying. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 12W CW sc plying, Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM 36W NEUTRAL	Nos			 	-
Supp		Nos	250		<u> </u>	2.0
Supp	White Section corporation & commissionism of CTTC/ EAD CLASS WITH DELICITED DEACC HARDENING CHARLEST IED	Nos	ono			12
LED	pplying. Erecting, connecting & commissioning of 8 LT CLEAR GLASS WITH BRUSHED BRASS FINISHING CHANDELIER plying, Erecting, connecting & commissioning of 6 LT FROSTED GLASS WITH CHROME FINISHING CHANDELIER WITH	37	QRO		 	
LED	DBULB	Nos	QRO			
Supr	pplying, Erecting, connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W NEUTRAL WHITE	Nos	25	3.45		54
Supp	plying, Erecting, connecting & commissioning of HANGING RING LIGHT 36W NW DIA 600MM	Nos	3			-
	plying, Erecting, connecting & commissioning of WALL UP LIGHT plying, Erecting, connecting & commissioning of LED LUCENT SLIM DOWNLIGHT 9W CW	Nos Nos	10	100		
		Nos	-			
Supp		INOS	5	160	- I - I	
Supp	Plying. Freeting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT	Nos	5	100	·	-
Supp		Nos	65	+		- ·
	plying, Erecting, connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT plying, Erecting, connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL plying, Erecting, connecting & commissioning of WALL LIGHT	Nos	4	190		
-	plying. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT plying. Freeting. connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL	Nos	12		· ·	
Supp	plying. Freeting, connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT plying. Freeting, connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL plying. Freeting. connecting & commissioning of WALL LIGHT plying. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM plying, Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER	Nos	آ, ا	845	-	-
Supp	physing. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT physing. Erecting. connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL physing. Erecting. connecting & commissioning of WALL LIGHT physing. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM plying. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER physing. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL	27	2	7+1		
Supp	Physiag. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT Physiag. Erecting. connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of WALL LIGHT Physiag. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM Physiag. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER Physiag. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL TITE Physiag. Freeting. connecting & commissioning of EMDNA: RECESSED COB DOWNLIGHT 15W WARM WHITE	Nos		161		
Supp	phying. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT phying. Erecting. connecting & commissioning of 3 THER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL. phying. Erecting. connecting & commissioning of WALL LIGHT phying. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM phying. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER phying. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL THE	Nos	5 26			
Supp	Physiag. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT Physiag. Erecting. connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of WALL LIGHT Physiag. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM Physiag. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER Physiag. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL TITE Physiag. Freeting. connecting & commissioning of EMDNA: RECESSED COB DOWNLIGHT 15W WARM WHITE		120			
	Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of WALL LIGHT Physiag. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM Plying. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER Physiag. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL TITE Physiag. Erecting. connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE Physiag. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE Physiag. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE Physiag. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW	Nos Nos Nos		- 4	-	
	physing. Erecting. connecting & commissioning of 1 LT CLEAR GLOBE GLASS WITH ROSE GOLD FINISHING PENDANT physing. Erecting. connecting & commissioning of 3 TIER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL. physing. Erecting. connecting & commissioning of WALL LIGHT physing. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM physing. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER physing. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL ITE physing. Erecting. connecting & commissioning of EMPIA: RECESSED COB DOWNLIGHT 15W WARM WHITE physing. Erecting. connecting & commissioning of EMPIA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE physing. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW physing. Erecting. connecting & commissioning of LED BULKHEAD 10W CW	Nos Nos Nos	33		Wa.	
Supp	Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of WALL LIGHT Physiag. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM Plying. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER Physiag. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL TITE Physiag. Erecting. connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE Physiag. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE Physiag. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE Physiag. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW	Nos Nos Nos		The same	119777 - 5	
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T	Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of WALL LIGHT Plysing, Erecting, connecting & commissioning of LED RING GATE TOP 40W WW 400MM plying, Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER plying, Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL THE plying, Erecting, connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE plying, Erecting, connecting & commissioning of EMPHA: RECESSED EXTENDED COB FOCUS LIGHT 7W WARM WHITE plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Installation, Testing and commissioning of 900mm Decorative Celling fan with suspended rod bolt nut with all accessories. Etc. ply, Installation, Testing and commissioning of 900mm ceiling fan with suspended rod bolt nut with all accessories. Etc.	Nos Nos Nos Nos	33 10 25	क्रिका	10.0. E	
	Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physiag. Erecting. connecting & commissioning of WALL LIGHT Physiag. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM Plying. Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER Physiag. Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL TITE Physiag. Erecting. connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE Physiag. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB POCUS LIGHT 7W WARM WHITE Physiag. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW Physiag. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW Physiag. Erecting. connecting & commissioning of LED BULKHEAD 10W CW Physiag. Erecting. connecting & commissioning of LED BULKHEAD 10W CW Physiag. Erecting. connecting & commissioning of 1200mm Decorative Ceiling fan with suspended rod bolt mut with all accessories. Etc.	Nos Nos Nos Nos	33 10	का.का.	100	
	Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of WALL LIGHT Plysing, Erecting, connecting & commissioning of LED RING GATE TOP 40W WW 400MM plying, Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER plying, Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL THE plying, Erecting, connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE plying, Erecting, connecting & commissioning of EMPHA: RECESSED EXTENDED COB FOCUS LIGHT 7W WARM WHITE plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Installation, Testing and commissioning of 900mm Decorative Celling fan with suspended rod bolt nut with all accessories. Etc. ply, Installation, Testing and commissioning of 900mm ceiling fan with suspended rod bolt nut with all accessories. Etc.	Nos Nos Nos Nos	33 10 25	का.का. कि परिसर,	100	
	Physics. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physics. Erecting. connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physics. Erecting. connecting & commissioning of WALL LIGHT Physics. Erecting. connecting & commissioning of LED RING GATE TOP 40W WW 400MM physics. Erecting. connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER physics. Erecting. connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL THE Physics. Erecting. connecting & commissioning of EMINA-RECESSED COB DOWNLIGHT ISW WARM WHITE physics. Erecting. connecting & commissioning of EMPHA: RECESSED EXTENDED COB FOCUS LIGHT 7W WARM WHITE Physics. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW physics. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW physics. Erecting. connecting & commissioning of LED AREVA PRIME ROUND 15W CW physics. Erecting. connecting & commissioning of LED BULKHEAD 10W CW physics. Erecting. connecting & commissioning of LED BULKHEAD 10W CW physics. Erecting and commissioning of 1200mm Decorative Celling fan with suspended rod bolt nut with all accessories. Etc. phy. Installation, Testing and commissioning of 900mm celling fan with suspended rod bolt nut with all accessories. Etc. phy. Installation, Testing and commissioning of Wall Mount fan with bolt nut with all accessories. Etc.	Nos Nos Nos Nos	33 10 25	का.का.	गट.०. व्यय एवं	-
	Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of 3 TER CIRCLULAR 60 WATT CHROME WITH AS FOUR CRYSTAL Physing, Erecting, connecting & commissioning of WALL LIGHT Plysing, Erecting, connecting & commissioning of LED RING GATE TOP 40W WW 400MM plying, Erecting, connecting & commissioning of LED STREET LIGHT 45W 100LM/W 1-3WLED POTTED DRIVER plying, Erecting, connecting & commissioning of LED ALUMINIUM PROFILE LIGHT SUSPENDED 50X70MM, 36W COOL THE plying, Erecting, connecting & commissioning of EMINA: RECESSED COB DOWNLIGHT 15W WARM WHITE plying, Erecting, connecting & commissioning of EMPHA: RECESSED EXTENDED COB FOCUS LIGHT 7W WARM WHITE plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Erecting, connecting & commissioning of LED AREVA PRIME ROUND 15W CW plying, Installation, Testing and commissioning of 900mm Decorative Celling fan with suspended rod bolt nut with all accessories. Etc. ply, Installation, Testing and commissioning of 900mm ceiling fan with suspended rod bolt nut with all accessories. Etc.	Nos Nos Nos Nos	33 10 25	का.का. कि परिसर,	गट.०. व्यय एवं	•

	Supply and laying 3 1/2 C120 Sqmm 1.1 KV grade XLPE insulated armoured cable with aluminium conductor for incoming of			1 10/	metar / CO	17.1		
No.	Description of work INCOMING EB & DG INCOMING CABLE & RELATED WORKS:	Jill		Refe	TALLINAU.	Rate	Amount	Total
-		Unit	Qty.	S	opply	Fe	ection	
	PART-C:- ADDITIONAL ELECTRICAL INSTALLATION RELATING TO OTHER SEF INSTALLATION NOT RELATED WITH APARTMENT ELEC				11 NING, ETC.			
	NOTE: QRO - Quote rate only: This may be required or not and will be decided during execution.	DAVECTO	LIVE ***	DC IIC	PENTAGO POR			
	TOTAL OF PART-B C'6 TO SUMMARY	,	4,100		32 LK()			
ė	20-63A 4P MCB 40KA Surge Suppressor (TVSS) with 1 set of 20A 4P MCB complete with interconnection, earthing, etc.	Set Set	1 QRO					
	10-20A SP MCB 10-20A DP MCB	Set Set	1		- 1			
	6-10A SP MCB	Set	1		. 31		*	
	63A 4P RCBO 32-63A DP RCBO	Set Set	1		1			
	63A 4P MCB isolator	Set	7		4	7	-	
	Supply and laying of 2 core 0.5 mm. Copper flexible for lift work. Supply, installation, testing & commissioning of the following rated MCB / ELCB wherever required. (Provisional)	MIL	ŲKO.					
	Rate shall be inclusive of all materials, wiring, light fitting, DB, etc.	Mtr	QRO					
7	Sets of bulk head light fiting 5 Sets of 6A switched socket with 1no. 6A SP switch to control bulk head light in M.S box with wiring from the above MCB with 3runs of 1.5Sqmm PVC copper wire in concealed PVC conduit pipe with all accessories.	Set	1		9			
٦	1 No. 16A concealed / surface mounted plug & socket controlled by 1 No. 16A SP switch with wiring by 3 runs of 2.5 Sqmm in a suitable size ERW conduit pipe/ concealed PVC conduit pipe with all accessories.							
⊐	1 No. 10A DP MCB for lift car light.							
	1 No. 20A DF MCB for lift pit power. 1 No. 10A DF MCB for lift pit light control.				-			
	OUTGOING: 2 No. 32A TFN MCB to control lift.							
	1 set R.Y & B LED Type indicating lump connected through series resistor and sur e suppressors.							
	INCOMER: 1 No. 40A TPN (MCB).							
	Supply & installation of lift control and wiring system with the following:							
	LIFT:							
	Supply and laying of PVC insulated FRLS unsheathed multistranded copper conductor wire with 3 runs of 4sq.mm (P,N) and 1 run of 2.5Sq.mm(E) complete with wiring terminations etc as per standards. The rate shall include supply of wires, termination etc., for ups db	Mtr	2200		81			
	Incoming: 1No 63 A, 4P MCB Outgoing: 8Nos 10-32 A, TP MCB	Nos	6		1,9			
$\overline{}$	Fabrication, Supply, Installation, Testing and Commissioning of ETPN 4 WAY TP & N MCB Distribution Board and double door, dust & vermin proof and copper bus bar comprising of the following:							
	shall be of 12V DC with a minimum of Suitable ampere hour and as per specification. 120 Minutes ETPN DB (UPS)							
	Supply and Erection of 2 KVA UPS Systems with Single-phase input and Single phase output. Maintanance free batteles suitable for backup system should have Half an hour continous rating. The scope includes providing necessary battery stand, inter connecting cables from UPS battery. The scope also includes providing necessary by-pass arrangement and all other requirements. The capacity of the battery	Nos	6					
	Supply & installation of 75mm X 75mm X 40-50mm depth M.S. Junction boxes (as empty junction boxes) for Telephone, TV outlets, etc. covered with plain powder coated posspex cover plate.	Each	2					
_	300mm x 150 to 300mm x 25-65 mm depth M.S. boxes. 150mm x150mm x 25-65mm depth M.S. boxes.	Each Each	2 2		363			
4	Take snail to the custive of all sunkny materials coits and nuis, two costs of painting over base primer, etc., or following sizes. 450mm x 250 to 450 mmx25-65mm depth M.S.boxes.	Each	2		545			
	Same as above but 150 mm. width tray (25 x 25 x 6 mm runners and rugs of 25x25x3mm). Supply and installation of M.S. junction boxes made out of 16 SWG M.S. sheet Steel with adequate knock-outs on all sides, openable cover plate, etc., for looping the PVC conduit pipes. It should be fixed on the cable tray, ceiling, wall, etc., with adequate supports. The rate shall be inclusive of all sundry materials bolts and nuts, two costs of painting over base primer, etc., of following sizes.	Mtr	10					
	ceiling) with rawl bolt and mut, etc. The rack system to be painted with enamel paint, etc. The width of the rack shall be 450mm.	Mtr	10		241			
	Supply & installation of ladder type cable tray made out of 50mm x 50mm x 50mm M.S. angles as main runners and 2 Nos. of 25 x 25x 6 mm. M.S. Angles welded close to each other with 6mm gap as rugs, complete with suspension arrangement (maximum upto 800mm from	3.6	4.0					
	Supply and installation of TV jack plug in a suitable size M.S. box concealed to wall.	Set	. 10		14.5		-	
	Supply and laying of PVC insulated 0.51mm dia twisted 1 Pair Telephone cable in the above conduit pipe. Supply and Installation of Data point in a suitable size M.S. box concealed to wall.	Mtr Set	200 10		-			
	Same as above but 32mm 1.8mm dia PVC pipe (For Misc. at car park)	Mtr	25		3.45			
	etc.(For Telephone) Same as above but 25mm dia 1.8mm PVC pipe (For T.V)	Mtr	250		-			
	16A/20A outlets and MCB & wiring, if required, in future, complete with all accessories. Supply and laying of 20mm dia 1.6mm thick PVC conduit pipe for Telephones and T.V. outlets concealed to wall/ceiling/column,	Mtr	250		390			
	& socket shall be at 2400mm/as per Architect near to A.C. (For AIR Conditioner points, etc.) Same as above but only empty conduit pipe and empty M.S. Box conceald to wall (without outlets & wiring) suitable for mounting the	Set Set	28 QRO					
	Supply & fixing of 20A DP switch (modular cover plate type) mounted in a suitable size M.S. box concealed/ surface mounted to wall/ column, etc. Rate shall be inclusive of wiring with 2 runs of 4 sqmm. multistrand copper conductor wire with single run of 1.5 sqmm. multistrand copper conductor wire for power outlets in a suitable size concealed 20/25 mm. 1.8mm. thick rigid PVC conduit pipe complete with all accessories, all connected civil works, etc. (For A.C points the control switches shall be of 20A DP at bed side level	<u> २</u> ध	00					
	wire with single run of 1.5 Sqmm. multistranded copper conductor wire as earth from DB to the 16A Power socket in a suitable size concealed 20/25 mm. 1.8/1.6mm. thick rigid PVC conduit pipe complete with all accessories, all connected civil works, etc.(For geyser points the control swiches shall be of 16A DP at switch box level & socket shall be at 2400mm/as per Architect near to geyser. 16A DP switch shall be with builtin indicating LED lamp). For other power points in kitchen, wash area, etc it shall be with DP indicating type switch mounted along with socket outlets.	Set	60					
	Supply & fixing of 6/16 Amps 6 pin combined DP switch and socket with indicating lamp mounted in a suitable size M.S. Box concealed to wall /partition, etc. Rate shall be inclusive of wiring to the above with 2 runs of 2.5 Sqmm. multistrand copper conductor							
	Three to Four lights controlled by one MCB. Five to Eight Eight Sentrolled by one MCB.	Set Set	5 2		-		-	
	One to Two lights controlled by one MCB.	Set	5		-		-	
	Wiring to common areas (like parking, staircase, etc) without local control switches. Group control of lights shall be controlled directly from the MCB in DB. (MCB & MCB DB covered separately)							
	Same as above but 2 way light points inside the apartment with 2 way switches, etc. (4# each in apartments)	Pt	20					
	6A switched socket (on board 6A) counted as half point. Same as above but wiring for Bell point with 1.0 squma instead of 1.5 sqmm as circuit mains.	Pt Pt	25 5		385		-	
	for Lobby, mise works, etc. Fan points with fan hook junction box, modular step type fan regulator.	Pt	52		-			
	Light points, 6A plug points away from switch boxes, exhaust fan points, etc. (20+148+81+83+1+14+20+5+15) + 23 Nos provisional 6A	Pt	410) • (
	bends, M.S. junction boxes, switch boxes, concealed type fan hooks, 1.0 sqmm. multistranded PVC insulated copper conductor (green colour) as earth continuity wire separately for each. Wiring shall be carried out from distribution boards to various points, etc. The rate shall be for the complete work including all civil works connected with the installation. (Note: No. circuit mains primary and secondary points, staircase point, etc. shall be counted separately and the rate quoted shall be inclusive of all per point).							
- 11	with chase cutting and rough plastering. The rates shall be inclusive of all materials like switches, wires, pipes and accessories like							

	Community Let 2000 To DC CALL	1 34	1 01					
b.	Same as above but 240Sqmm. (For DG Cable) Same as above 4C 25Sqmm. (Provisional)	Mtr	25				-	
d.	Same as above 4C 2.5 Summ copper (Provisional For Misc works)	Mtr	50					- :
2.	End termination to the above cable with single compression type cable gland and crimping type aluminium sockets.							
a.	3 1/2 C 120 Sqmm.	Each	2					
b.	3 1/2 C 240 S ₁ mm.	Each	2					-
C.	4C 25 Sqmm.	Each	2		(2)		-	
d.	4C 2.5 Summ Cu. EB FEEDEER PILLAR	Each	6		+		-	-
3.	Supply & Installation of 300A 4 way floor mounting weather proof type feeder pillar with 300A rewirable cutouts, sealing type door							
	tinned copper busbars for phases & neutral, cadmium plated bolts & nuts with spring washers, etc. as per TANGEDCO norms.	1						
_	THE CONTROL OF THE CO	Each	1					
п	TOTAL OF SECTION I C/6 TO SUMMARY BMS RELATED WORKS:							
9.	Towards labour charges for concerete chipping of BMS conduit pipes in the floor.	Mtr	30					
10a.	Supply and laying of 20mm dia 1.6mm thick. PVC conduit pipe for BMS concealed to floor/shaft, etc.	Mtr	225		7.1			<u> </u>
b.	Same as above but 25mm dia PVC pipe.	Mtr	30		12		-	
C.	Same as above but 32mm dia PVC pipe.	Mtr	10				-	
Ш	PUMP DB'S & RELATED WORKS:	A 1674-0				1000	N 20	
11.	Supply and installation of DB as described in Part-B but with the following:	1						
	INCOMER:							
	1 No. 40A 4P 10KA MCB. 1 set R, Y & B LED Type indicating lamps	-						
	OUTGOING:							
	VTPN 12 way MCB DB fitted with 12 Nos. 10-20A TPN MCB.	Set	1					-
	(Refer PDB-PUMP).							
12.	Supply, laying and dressing of the following sizes of 1.1 KV grade PVC/XLPE insulated flat / round armoured cable with aluminium conductor or copper conductor as specified on wall/ceiling/trench/cable rack with proper clamping, cable identification tags, etc.	1						
	conductor of copper conductor as specified on want centing treatenessore rack with proper champing, cante deciding tags, etc.							
a.	4C 16 Summ Al. Armoured.	Mtr	30				-	
b.	4C 6Squun Al. Armoured.	Mtr	280		-			
13.	End termination to the above cable with single compression type cable gland and crimping type aluminium sockets. 4C 16 Squam Al. Armoured.	Da-L	1					
a. b.	4C 6S unin Al. Armoured.	Each Each	12					-
14a.	Supply and laying of 25 x 3 mm. G.I. flat with M.S spacer clamp, etc. for body earth. (From main grid earthing to pump DB).							
		Mtr	30				74	
b.	No. 10 SWG G.I. wire for body earth. (For pumps).	Mtr	500				-	-
IV	TOTAL OF SECTION III C/6 TO SUMMARY YARD AND STREET LIGHTING:	20 - 20	100				*	THE RESERVE
15.	Supply and laying of 3 core 2.5sqmm. PVC (1 core for earth) insulated armoured cable with aluminium conductor for periphery and						-	
	gate lights.	Mtr	150					
16.	End termination to the above cable with single compression type cable gland and crimping type sockets.	Each	10		-			
17a.	Labour charges for installation of 3 to 3.5 Mrs high 80mm. dia MS powder coated ground mounted street lights (Poles will be supplied by the client. The rate shall be inclusive of suitable foundation, coil type(8SWG GI 200dia 0f 115 turns) earth, wiring from connector block							
	to fitting with 3C 1.5 Sqmm insulated PVC sheathed wire, etc)	Set	10					_
b.	Same as above but 1 to 1.5 mtrs light poles for Post Top lanterns, Landscape lights, etc.	Set	QRO					
18.	Supply and Installation of G.I. Bracket of suitable size for post top lantern on compound wall, in and out gates, etc.	Each	QRO					
19.	Towards Labour charges for fixing of the following light fittings supplied by the client. Rate shall be inclusive of mounting accessories							
a.	likes, bolts & nuts /screws, etc. 20 to 40 watts LED Street light fittings.	Each	10					
b.	10 to 25 watts LED Post top lanterns, Landscape lights, etc.	Each	QRO					
C.	Ornamental Bulk head Ground mounted Landscpare lights Compound wall lights, etc.	Each	14				*	263
20	Labour charges only for installation only of 10 to 25 watts LED GateLights.	Each	4					
V)	TOTAL OF SECTION IV C/6 TO SUMMARY %3 LIGHTNING INSTALLATION:	DIE.			A	200		
21.	Supply installation, testing & commissioning of the following lightning protection system. The lightning protection system shall be of				_		-	
	conventional type as per the latest NBC & norms. Material selection shall be according to this conventional system. Shop drawing to be							
	prepared & components to be shown with respect to locations, mounting system, etc. All components, screws, bolts & muts to be included							
_	wherever required to make all the items as complete.		_					
a.	3 Mtr Vertical Air terminal with accessories. Providing air terminal as per standard & 16mm rod tapered to 10mm aluminium rod or without tappering.	Nos	,					
b.	Fixing clamp for air terminal, Tested as per Standard: EN 62561. This device is meant for erecting Air terminal to the building & looping	Nos					-	-
	the horizontal conductors.(Air terminal of 8mm aluminium rod conductor covered seperately)	Nos	1					
C.	Aluminum Round Conductor (Ø 8mm), Tested as per Standard: EN 62561. This is 8mm conductor being used to loop all vertical Air							
d.	terminations, horizantol & down conductors upto bottom of the building. Round Conductor and Down conductor holder made out stainless steel (appx at every 1 mtr interval) for 8 mm aluminium round	Mtr	135		-		-	527
u.	conductor laid at parapet wall. The conductor holder shall have all accessories like screws, bolts & mus, etc.							
		Nos	175					
€.	Universal Clamp Tested as per Standard: EN 62561. This device is meant for cross connection, T connection etc.	Nos	25					360
f.	GI Strip for Down Conductor (25x6 mm). (This conductor will be connecting the 8mm conductor and link to the earth electrode)							
g.	Earth Electrode: Earth electrode shall be 3/4" dia, 10 feet long, UL listed, min 254 micron copper coating over mild steel, -Each earth	Mtr	100		· ·			
ъ.	electrode shall be supported with RoHS certified, low resistivity (≤0.2 ohm mtr) Ground Enhancement Material (min 22.6 Kg), performs in							
	all soil condition, increases the contact area with earth electrode, A suitable clamps shall be used for termination of down conductors to							
	earth electrode. The resistance shall be $\leq 10 \Omega$.	Nos	4		-		-	345
h.	GI Strip (25x6 mm), for interconnecting earth pits. Test Joint for earthpit for disconections & connections,	Mtr	50				-	
	TOTAL OF SECTION V Cio TO SUMMARY PAST PAST PAST	Tytre					US 1451	
VI)	MISCELLANEOUS INSTALLATION:	- 1						
22a	Supply and laying of 50mm dia 2mm thick PVC conduit pipe from ground floor telephone tag block to the upper floors		<u>,.</u>					
	concealed to wall. Rate shall also be inclusive of chase cutting of wall, rough plastering, etc., for intercom.	Mtr	25		· ·		-	a
b.	Supply and laying of the following Finolex, Havels, Polycab make telephone cable. Telephone cables shall be of 0.51mm dia twisted,							
	sheathed PVC insulated cable.							
_	i) 5 pair Telephone cable.	Mtr	QRO					
	ii) 10 pair -do- iii) 50 pair -do-	Mtr Mtr	QRO QRO					
C.	Supply and Installation Krone or equivalent make of 100 pair telephone tag block in ground floor in a suitable size concealed		9.10					
	lockable type M.S. box.	Each	QRO					
d. e.	Same as above but of 50 pair telephone tag block. Same as above but 25 pair telephone tag block.	Each	QRO					
23	Supply and fixing of heavy that ball and socket (2Nos) for suspension of fluorescent fittings.	Each Set	QRO		7.85		-	
24	Supply and Installation of 19 mm. 16 gauge ERW conduit as down rod to fittings wherever required including two coats of approved	201	71.0		- ""			
	colour paint.	Mtr	QRO					
25	Towards labour charges for installtion of TNEB KWH Meter in all meter panels with necessary inter connection as per EB requirement.	P						
26	Supply and laying of the following sizes PVC pipe inserts for incoming power cable. Rate shall be inclusive of all miscellaneous items	Each	6					
	like bends, couplers, etc.							
a.	100mm diameter heavy duty PVC pipe.	Mtr	35					-
b.	75 mm. diameter heavy duty PVC pipe.	Mtr	35		54		-	-
c. 27	50 mm. diameter heavy duty PVC pipe. Excavation of earth & laying cable in outdoor upto 750mm from the finished ground level, three side brick covering, sand cushioning /	Mtr	35		590		-	
	quarry dust covering, back filling, ramming, consolidation of the earth, etc., including identification markers, etc.	Mtr	75		L			_
	Note: (This is a common trench for group/multiple runs of power cables/street light cables/controls cables to be laid in this trench)		-/-					
					NO LIN	2		
28	Toward charges for providing RCC Access manhole with heavy duty RCC top conver. The size of the manhole shall be 600mm wide x				वैक IIN	Law.		
	600mm length with a depth of 750mm. It shall be placed at regular intervals (not exceeding 20mtrs) and to be used for pulling the cable. The route to be decided to suit site conditions.	Each	6	(A)		0.	1 00	
29	Supply and installation of weather proof M.S. box made out of 16 SWG sheet steel with hinged door equipped with the following:	Dacil	9	The least	परिसर व्य	Ud 15	-	
				1.7	+ A)A		W	
	1.3			10	The state of	43		
	The second secon			131	Premises, Expe		Ü	
	2 C 20 20 C C C			Bil	& Estate De	1		
				1	A / Royage	Harry Ch.		
					Koyape			

	a) 1 No. DOL starter suitable for 2 to 5 HP motor.	_	-	T	_	1	-	T
	b) 63A TPN MCB load break isolator.				 	-		
	c) RY & B LED type indicating lamp. Rate shall be inclusive of all connected civil works, M.S. angle iron frame work suitable for wall/floor mounting, cable adopter boxes, etc.	Set	QRO					
30	Supply and installation of M.S. sheet steel fabrication boxes meant for junction boxes for DB, junction boxes for floor crossing, etc. complete with all hardwares, paint, etc. The thickness of sheet steel, type of cover, etc., will be decided to suit site condition.	>						
	complete with an instruments, paint, etc. The backness of sheet steed, type of cover, etc., will be decided to shift she condition	Kg	. 35				199	
31	Supply and installation of M.S. angle iron frame work for cable rack, cable supporting clamps, etc. It shall be manufactured from M.S.							
	angles/flats or channels as per site requirement complete with grouting, painting, etc. (For cable supports in Electrical duct)	Ke	300		191		950	
	Supply, installation, testing & commissioning of the following rated DOL starters (with Solinoid Coils)	FAE	300		-			
	DOL starter suitable for 1 to 3HP three phase motor. DOL starter suitable for 1 to 3HP single phase motor.	Each	QRO					
	4 to 7.5HP suitable for three phase motor.	Each Each	QRO			-		
	TOTAL OF PART-C:- C/s TO SUMMARY							
VII)	HUME PIPES Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement		-					
	mortar 1:2 (1 cement : 2 fine sand) including trenching							
33.00	and refilling etc. as required.							
a	150mm dia	Mtr	55		0	-	0	
	200mm dia	Mtr	QRO				-	
С	300nm dia	Mtr	QRO		-			
	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming		_		_			
2.01	to IS 14930, Part II complete with fitting and cutting, jointing etcdirect in ground including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.							
a	100 mm dia (OD-160 mm & ID-135 mm nominal)	Mtr	40		0		0	
	160 mm dia (OD-160 mm & ID-135 mm nominal)	Mtr	50		0		0	
-								
3 00	Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of size not exceeding 25 sq. mm. direct							
3.02	in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.		3.104					
	TOTAL OF PART-C:- C/o TO SUMMARY	Mtr	60		0.0		0	
	CABLE TRAY				-			
	Supply, erection of following sizes GI ladder / Perforated type cable rack system made out of sheet steel folded to required shape with							
	adequate number of supports. (Cable tray support price is included in this Items) The cable rack shall have runners rugs of suitable size for Ladder Tray, horizontal elbow, vertical elbow 90 Deg. Up vertical elbow 90		-					
	Deg. Down, re-deep, coupler plates for both Ladder, Perforated Cable Tray. The cable racks shall be suspended from ceiling							
	supported from side walls in columns etc. with adequate size of Thread rods, supporting angles / channels with fastners, welding, anchor bolts, nuts etc. The rack shall have suitable cable clamping arrangements etc.							
	150mm x 50mm Perforated Tray without cover	Mtr	30				+	
	300mm x 50mm Perforated Tray without cover	Mtr	50					
	450mm x 50mm Perforated Tray without cover TOTAL OF PART-C - C/o TO SUMMARY	Mtr	45		27.11.500		-	
(I)	LIASIONING TNEB APPROVALS							
	TNEB Preparation of drawings and submission to the statutory authorities such as obtaining approval from TNEB authorities including energizing the Installation for Electrical Installation and for commissioning the system.	Job	1					
	and the strength of the streng							
	The necessary statutory fees/charges will be paid by the client against demand advice. AS BUILD DRAWING	Job						
	Preparation of AS BUILT Drawings -3 SET		1					
	TOTAL OF PART-C:- C/6 TO SUMMARY				E39II EII		2	18 JUL 1
	NOTE: QRO - Quote rate only: This may be required or not and will be decided during execution. ELECTRICAL WORKS - DG							
I.No.	DETAILS OF WORK			F	late	Amo	unt	Total
		Unit	Qty	Supply	Erection	Supply	Erection	
	Sub Head No ; 1 - DG WORKS	Unit	Qty	Supply	Erection	Supply	Erection	
I	DG SET WITH EXHAUST PIPE, STACK AND CONNECTED WORKS	Unit	Qty	Supply	Erection	Supply	Erection	
.01 v		Set	Qny	Supply	Erection	Supply	Erection	
S S S S S S S S S S S S S S S S S S S	DG SET WITH EXHAUST PIPE, STACK AND CONNECTED WORKS Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel angine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, 3 phase, 50 Hz, AC supply and driven with diesel engine complete with all accessories such as Base frame, inbuild diesel tank, residential silencer, radiator, alternator capable of delivering 415 Volts, 50Hz, 3 phase, Pf 0.8, 250 KVA load, coupling arrangement of alternator with engine, coupling guard, anti-vibration mounts suitable for 125 kVA DG set, full filter, of filter, air filter, exhaust flexible piping, suitable batteries for starting / charging purpose, battery charging alternator, engine control panel, etc. (the anti-vibration mounting quantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled tiesel generator with all accessories fabricated with 16 SWG CRC sheet steel, mineral wool insulation of high density with perforated GI	Set	1	Supply	Erection	Supply	Erection	
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S S S S S S S S S S S S S S S S S S S	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel engine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, phase, 50 Hz, AC supply and driven with diesel engine complete with all accessories such as Base frame, binabilid diesel tank, residential illancer, radiator, alternator capable of delivering 415 Volts, 50 Hz, 2 phase, PO 8, 250 KVA load, coupling including a fitternator with engine, coupling guard, anti-vibration mounts suitable for 125 kVA DG set, field filter, oil filter, air filter, exchants flexible piping, suitable batteries for starting / charging purpose, battery charging alternator, engine control panel, etc. (the anti-vibration mounting quantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled liesel generator with all accessories fabricated with 16 SWG CRCA sheet steel, mineral wool insulation of high density with perforated GI fisheet covering, ventilation system complete & Civil foundation for DG set. (This enclosure should be as per CPCB norms.). Vendor/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the unitability/fassibility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set before starting execution and designs. This exercise is to be completed before quoting/accepting order. Note: The DG Set foundation civil work included in the cost. Description ROOFTOP SOLAR POWER PLANT Ingineering, Procurement & Commissioning (EPC) Turnkey basis, preparation of detail BOQ, Design, Engineering, manufacturing, testing tworks, delivery to site of installation, storage and handling including unloading and shifting as required; cleaning and assembly as equired, Installation inclusive of all kind of Civil, Electrical and structural works	Set Unit	Qty	Rate	Amount	Rate	Amount	TOTAL
No I F E E a a F I I I I I I I I I I I I I I I I I	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel argine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, 50 phase, 50 Hz, AC supply and driven with diesel engine complete with all accessories such as Base fame, binulad dised tank, residential illencer, radiator, alternator capable of delivering 415 Volts, 50 Hz, AV DG set, fuel filter, oil filter, air filter, exhaust flexible piping, accepting guard, anti-vibration mounts suitable for 125 kVA DG set, fuel filter, oil filter, air filter, exhaust flexible piping, attaible batteries for starting / charging purpose, battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the transition of the charging purpose), and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled liesel generator with all accessories fabricated with 16 SWG CRCA sheet steel, mineral wool insulation of high density with perforated GI these covering, ventilation system completes & Civil foundation for DG set. (This enclosure should be as per CPCB norms.) Vendor/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the unitability/feasibility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set effore starting execution and designs. This exercise is to be completed before quoting/accepting order. Note: The DG Set foundation civil work included in the cost. Total for Sub Head Not 1 Grand Total ELECTRICAL WORKS Description ROOFTOP SOLAR POWER PLANT Tangineering, Procurement & Commissioning (EPC) Turnkey basis, preparation of detail BOQ, Design, E	Set Unit -	Qty 1	Rate	Amount	Rate	Amount	TOTAL
S S S S S S S S S S S S S S S S S S S	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel engine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, phase, 50 Hz, AC supply and driven with diesel engine complete with all accessories such as Base frame, in build diesel tank, residential illaecer, radiator, alternator capable of delivering 415 Volts, 50Hz, 3 phase, PG 8, 250 KVA load, coupling incompanies of charging purpose, but every charging alternator, engine control panel, etc. (the anti-vibration mounting quantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled liesel generator with all accessories fabricated with 16 SWG CRCA sheet steel, mineral wool insulation of high density with perforated GI theset covering, ventilation system complete & Civil foundation for DG set. (This enclosure should be as per CPCB norms.) Vendor/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the mitability/facisibility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set Poundation for DG Set foundation civil work included in the cost. Description Description Description Description Description ELECTRICAL WORKS Description Description Description stallation inclusive of all kind of Civil, Electrical and structural works, Testing, Commissioning, Synchronizing, Operation and daintenance of Roof top Solar PV Systems for approximate capacity of minimum 380 KVP (Generation capacity) shall be decided by the CONTRACTOR as per roof top layout area), which incluides solar panels, structures, cables, string monitoring cum junction boxes inverters, panels, Circuit breakers, other required instrunents, safety systems etc., Equipments required for interfacing with grid abultation, material storage and other a	Set Unit -	Qty	Rate	Amount	Rate	Amount	TOTAL
No I F F F F F F F F F F F F F F F F F F	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel angine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 41.5 Volts, 1500ppm, 5 plases, 50 Hz, AC supply and driven with diesel engine complete with all accessories such as Base frame, inbuild diesel tank, residential illencer, radiator, alternator capable of delivering 415 Volts, 50Hz, 2 plases, PF 0.8, 250 KVA load, coupling arrangement of alternator with engine, coupling guard, anti-vibration mounts suitable for 125 kVA DG set, fuel filter, air filter, exhaust flexible piping, suitable batteries for starting / charging purpose, battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the charging purpose), battery charging alternator, engine control panel, etc. (the tradiction of the charging alternator) and provided account of the charging and the charging alternator, engine control panel, etc. (the charging alternator) and panel	Set Unit -	Qty 1	Rate	Amount	Rate	Amount	TOTAL
1	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel engine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, planes, OH, R. AC supply and driven with diesel engine complete with all accessories such as Base fame, inbuild diesel tank, residential illencer, radiator, alternator capable of delivering 415 Volts, 50Hz, 3 phase, PF 0.8, 250 KVA load, coupling arrangement of alternator with engine, coupling guard, auti-vibration mounts suitable for 125 kVA DG set, flue filter, oil filter, air filter, echaust flexible piping, autiable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the antivation mounts suitable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the arthration mounting juantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled finesel generator with all accessories fabricated with 16 SWG CKCA sheet steel, mineral wool insulation of high deray the perforated GI sheet covering, ventilation system complete & Civil foundation for DG set. (This enclosure should be as per CPCB norms.). Vendow/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the unitability/fassibility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set selecters that the performance of the	Set Unit -	Qty 1	Rate	Amount	Rate	Amount	TOTAL
1	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel angine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, planes, OH, A. CS upply and driven with diesel engine complete with all accessories such as Base fame, inbuild diesel tank, residential illencer, radiator, alternator capable of delivering 415 Volts, 50Hz, 3 phase, PF 0.8, 250 KVA load, coupling arrangement of alternator with engine, coupling guard, anti-vibration mounts suitable for 125 kVA DG set, flue filter, oil filter, air filter, echaust flexible piping, autuable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the antivation mounts is putable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the arthration mounting juantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled finesel generator with all accessories fabricated with 16 SWG CKCA sheet steel, mineral wool insulation of high derivation mounting insulation system complete & Civil foundation for DG set. (This enclosure should be as per CPCB norms.). Vendow/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the nutability/fass/bility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set foundation civil work included in the cost. Description ROOFTOP SOLAR POWER PLANT interest and the start of the start	Set Unit -	Qty 1	Rate	Amount	Rate	Amount	TOTAL
1	Supply, Installation, Testing and Commissioning of factory assembled and factory tested, radiator cooled, turbo charged after cooled diesel engine alternator set capable of generating full load of 200 KVA capacity at 50° C, power factor not less than 0.8 lag, 415 Volts, 1500rpm, planes, OH, R. AC supply and driven with diesel engine complete with all accessories such as Base fame, inbuild diesel tank, residential illencer, radiator, alternator capable of delivering 415 Volts, 50Hz, 3 phase, PF 0.8, 250 KVA load, coupling arrangement of alternator with engine, coupling guard, auti-vibration mounts suitable for 125 kVA DG set, flue filter, oil filter, air filter, echaust flexible piping, autiable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the antivation mounts suitable batteries for starting / charging purpose, battery charging alternator, capine control panel, etc. (the arthration mounting juantity as per the manufacturer's recommendation) and powder coated acoustic enclosure suitable for 1 No.250 KVA radiator cooled finesel generator with all accessories fabricated with 16 SWG CKCA sheet steel, mineral wool insulation of high deray the perforated GI sheet covering, ventilation system complete & Civil foundation for DG set. (This enclosure should be as per CPCB norms.). Vendow/Contractor to study drawings & visit site to check space/site/height constraints and ensure/confirm in writing the unitability/fassibility of shifting the DG Set inside and installation in the spaces provided, check with authority for location of DG Set selecters that the performance of the	Set Unit -	Qty 1	Rate	Amount	Rate	Amount	TOTAL

& Estate Dept.

Royapetral

	Name of the work:PROPOSED RESIDENTIAL DEVEL	LV SYSTE	M - ESTIN	MATE		-				
SNO		ACTUAL QUANTITY								
	BEGORIF HON	UNITS	QTY	UNIT RATE		AMO	TNUC	MAKE		
_				SUPPLY	ERECTION	SUPPLY	ERECTION			
1_	CCTV SYSTEM									
_										
_										
		-		-						
_	Supply, Installation, Testing & commissioning of 25 mm PVC Conduit with							-		
9	necessary junctin boxes, bends, clamps, etc., for both concealed or open	MTR	845				-	Precision/Jave		
_	laying.									
_	SUB TUTAL					*	-			
2	WIFI SYSTEM									
	Supply, Installation, Testing & commissioning of 25 mm PVC Conduit with									
4	necessary junctin boxes, bends, clamps, etc., for both concealed or open	MTR	450			-	-	Precision/Javer		
	la ving. SUB TOTAL							-		
_	SUB TOTAL									
3	INTERCOM SYSTEM	_								
	SUB TOTAL									
-										
4	TV DISH SYSTEM									
	Supply, Installation, Testing & commissioning of 25 mm PVC Conduit with	_								
	necessary junctin boxes, bends, clamps, etc., for both concealed or open	MTR	900							
.	laying.	WITH	300			-	-	Precision/VIP		
	SUB TOTAL							r recision/VIP		

