

पनवेल महानगरपालिका

जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंगत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंगत सजावट व इतर अनुषंगीक कामे करणे. (Electrical Vehicle Charging Stations)	१०/०८/२०२३ ते २१/०८/२०२३


Specification

SR. NO.	ITEM	REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
			NOTE- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY/ GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
	ELECTRICAL VEHICLE CHARGING STATIONS	A.1			
1	7 KW Type 2 AC Electric Vehicle Charger	1.1	Supplying, erecting, testing and commissioning of 7 KW Type 2 AC Electric Vehicle Charger (suitable for 4 wheeler)having minimum IK08 & IP54 protection suitable for single phase 220Vac +/- 10% AC 50/60Hz incoming supply and 1 no.output charger interface mennekes (type2) with of 7 kW capacity,interlocking arrangement with 5 meter charging cable , with display screen for human interface & LED light for status indication, metering for measurement of consumed energy having metering accuracy +/-1%, 15mins battery backup for communication, mushroom type emergency push stop button. User interface by mobile application/QR Code/RIFD Card/Password Login with payment options and having short circuit, over & under voltage, surge protection, earth leakage protection and enclosure made of minimum 1.2mm duly RAL7035 coated M.S,erected on iron/GI frame on provided cement concrete foundation complete with three years on site warranty, confirming to IS 17017 Series as per specification As directed by Engineer in charge Should include 2 pole circuit breakers against overcurrent, short circuit and residual current protection conforming to IS 12640 Part 2 along with mounting box. Should include mobile application and SIM card charges for 3 years. Make- Bombay Powerco/Wuerth E/Legrand/delta	12	nos

2	3.3 KW Type 2 AC Electric Vehicle Charger	1.2	Supplying, erecting, testing and commissioning of 3.3 KW Type 2 AC Electric Vehicle Charger (suitable for 2 wheeler)having minimum IK08 & IP54 protection suitable for single phase 220Vac +/- 10% AC 50/60Hz incoming supply with of 3.3 kW capacity, including 16A outdoor socket conforming to IS 1293, LED light for status indication, metering for measurement of consumed energy having metering accuracy +/-1%, 15mins battery backup for communication, mushroom type emergency push stop button. User interface by mobile application/QR Code/RIFD Card/Password Login with payment options and having short circuit, over & under voltage, surge protection, earth leakage protection and enclosure made of minimum 1.2mm dully RAL7035 coated M.S,erected on iron/GI frame on provided cement concrete foundation complete with three years on site warranty, confirming to IS 17017 Series as per specification As directed by Engineer in charge Should include 2 pole circuit breakers against overcurrent, short circuit and residual current protection conforming to IS 12640 Part 2 along with mounting box. Should include mobile application and SIM card charges for 3 years. Make- Bombay Powerco/Wuerth E/Legrand/delta	70	
3	MS, Painted Mounting structure	1.3	MS ,Painted Mounting structure for all EV charging stations	82	nos

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.
प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


 शहर अभियंता
 पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/ २३२१/प्र.क्र. ०३/२०३२/१/२०२३
 दि. ०१/८/२०२३

प्रत माहितीस्तव -

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे. (EXTERNAL ELECTRICAL WORK)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEMS	BOQ REFF. ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
			NOTE- ALL ITEM RATES SHOULD CONSIST OF DEFECT LIABILITY PERIOD (FOR ITEM NO. 1 TO 39 FIVE YEARS & FOR ITEM NO. 40 TO 76 THREE YEARS) INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
			EXTERNAL ELECTRICAL WORK		
			HT ELECTRICAL WORK		
1	RMU	1.1.1	Supplying , erecting, testing & commissioning SF 6 Insulated 33kV, 800A, 16kA/3sec, 3 way outdoor, extensible motorised SCADA compatible RMU as per electric supply company specification consisting of 2 nos. feeder with load break switch and 1 no. feeder with VCB as per specification no. SW-HTS / RMU SCADA (2LBS +1VCB) as per MSEDCL guidelines,As directed by Engineer in charge MAKE- L&T / ABB / SIEMENS/SCHNIEDER	1	EACH
2	HT METERING	1.2.1	Supplying, erecting, testing and commissioning 33KV HT metering cubical (compact type) with Solar power Bi directional net metering approved by MSEDCL / licensee fabricated with 2 mm (14SWG) M.S. sheets with supporting angle, painted with powder coating / epoxy paint of required shade, copper bus bar size 25 x 6 mm, heavy duty mechanical lock, with counter meter for measuring no. of times the opening of meter door,top side cover (CT, PT cover) interlock with meter door, epoxy casted 3 nos. CT having required ratio between 50/5A to 200/5A, VA 10 or 15, Class 0.2S, epoxy casted 3 nos. PT having ratio 33000/V3/110/V3 VA 50, Class 0.2 suitable for provided trivector meter, and provision for incoming and outgoing cables	1	EACH

			complete duly tested by licensee with necessary test certificates and erected on provided plinth/ cc foundation and calibrated by EDC/EB/Local authority etc.earthing terminals as required as approved and calibrated by EDC/EB/Local authority etc.		
3	CHECK METERING	1.2.2	Check Metering :Supplying, erecting, testing and commissioning 33KV HT metering cubical (compact type) with Solar power Bidirectional net metering approved by MSEDCL / licensee fabricated with 2 mm (14 SWG) M.S. sheets with supporting angle, painted with powder coating / epoxy paint of required shade, copper bus bar size 25 x 6 mm, heavy duty mechanical lock, with counter meter for measuring no. of times the opening of meter door,top side cover (CT, PT cover) interlock with meter door, epoxy casted 3 nos. CT having required ratio between 50/5A to 200/5A, VA 10 or 15, Class 0.2S, epoxy casted 3 nos. PT having ratio 33000/V3/110/V3 VA 50, Class 0.2 suitable for provided trivector meter, and provision for incoming and outgoing cables complete duly tested by licensee with necessary test certificates and erected on provided plinth/ cc foundation. and calibrated by EDC/EB/Local authority etc.earthing terminals as required as approved and calibrated by EDC/EB/Local authority etc.	1	EACH
4	HT PANEL	1.3.1	Supply Installation, Testing and Commissioning etc. of HT PANEL -Supplying of indoor 33KV,25KA for 3s HT Switchboard as under: 1nos 800A Incoming and 2 nos 800A VCB outgoing 33kV,25kA for 3Sec. 800A HT Vaccum Circuit Breaker with CC / TC -24V DC, Motor- 230 AC, with manual trip, anti pumping device, closing device, operation counter, Rack in & out handle, Trip Rod, Aux 6NO+6NC,Al Busbar with suitable rating,6 NO Single Phase Current transformer STC 25kA/1S Ratio: 50/1-1A , Core1: CL-0.5, 5VA for Metering, Core2-CL-5P10,5VA for protection, 3 NO-Single Phase Current transformer STC 25kA/1S Ratio: 100/1A , Core1: 0.5, 5VA for metering and Core-2-5VA, CL-5P10, 3 NO- Voltage transformer with ratio of 33kV/RT3/110V/RT3/110/RT3, Core1-CL-0.5,30VA, Core2-CL-3P,30VA, 3 NOs-HT Fuses with 33kV 3.15 curent rating,Digital MFM with class-0.2,Digital Ammeter with inbuilt selector switch,Digital Voltmeter with inbuilt selector switch 1 NO 6Window Annunciators,2 NO 12Window Annunciators 9 NOs Surge Arrestser,3 NO Numerical protection relay with ANSI 50/51/51/51N,with includes trip circuit supervision function with RS485 communication protocal,3 NO Master Trip Relay(86) VAJH13 2 NOs Aux.plug in realys Transforemer faults,LED lamp Red For L1,L2, L3 ON 110V AC (3 Nos.)3 NOs LED indicating Lamp, 24V DC, for CB ON, OFF,	1	EACH

			TRIP, TCH, Test/Service, SPRING CHARGE, Auto Trip, 3 NOs Local Remote selector switch, 3 NOs TNC switch, 2 NOs Emergency Trip push button, 3 NOs Thermostat & Spaceheater, Panel Light LED TYPE, with DLS, LT Chamber Sheetmetal, Terminals, Wires and other BOC, as per MSEDCL guidelines & As directed by Engineer in charge Make- L&T/ABB/SIEMENS/SHRI RAM SWITCHGEARS /SCHNEIDER		
5	DRY TYPE TRANSFORMER	1.4.1	Supply Installation, Testing and Commissioning of approved make 1600 kVA, 3 phase, 50 c/s, Reference Standard IS:11171 & IS 2026, VPI Dry Type Transformer , Copper wound, Dyn11 Vector Group, with delta connection on HV side & star connection on LV side with additional neutral brought out on load side, For Indoor Use Continuous Duty, Average Temp rise of Winding (at Principal Tap) 115 Deg C at Ambient Temp Max 50 Deg C & Min -5 Deg C at full load rating, Voltage rating 33/0.433 kV with Tapping (with off circuit Tap Links type tap changer) Tappings on Transformer For Off Load +5 to -5% @ 2.5% in +2/-2 Steps, HV Variation, Class of Insulation H/H, Method of cooling AN, no load Losses 1.9 KW, full load Losses 6.65 KW, with 98.87 % Efficiency at Full Load & 99.11 % at 1/2 Full Load, with 75 KV peak Full Wave Lightning Impulse withstand Voltage with Complete Enclosure having IP 21 Degree of protection, Cable Box arrangement at HV side & Busduct at LV side, with rating & Diagram Plate, Base Channel, Earthing Terminals & WTI Scanner with 3 PT-100 Sensors, etc. standard accessories complete with Test Certificate (as per IS:11171) VPI, Dry Type Transformer as per MSEDCL losses/as per MSEDCL guidelines, As directed by Engineer-in-charge. Make - ABB/SIEMENS/SCHNEIDER/KIRLOSKAR/CROMPTON GREAVES/ VOLTAMP/SHRI RAM SWITCHGEARS /SUPER POWER / INDCOIL TRANSFORMERS PVT.LTD.	2	EACH
6	SAFETY ACCESSORIES	1.7.1	Providing Round bottom fire bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/wall hook complete. As directed by Engineer in charge	12	Each
7	SAFETY ACCESSORIES	1.7.2	Providing Floor mounting stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint complete. As directed by Engineer in charge	3	Each

8	SAFETY ACCESSORIES	1.7.3	Supplying and erecting D.C.P. type Fire Extinguisher 9 kg capacity cartridge type with Gun Metal cap 150 gram CO2 gas cartridge , powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50x6 mm M.S. flat with nuts & bolts grouted in wall complete. As directed by Engineer in charge	3	Each
9	SAFETY ACCESSORIES	1.7.7	Providing pair of duly tested rubber hand gloves as per IS :47705 suitable for working up to 33 kV supply complete.. As directed by Engineer in charge	2	Each
10	Liasioning works	1.8.1	Coordinating with Supply co., equipment manufactures, metering department, CEIG, and other agencies etc.(for 2x 1600 33/.433kv kva dry type transformer)as per MSEDCL guidelines	1	job
11	DIESEL GENERATOR SET	1.1	Supply Installation, Testing and Commissioning etc. of 750 KVA Diesel Generator set with alternator Rated Voltage 415V enclosed in aacoustic enclosure with min. decible level of 75db (1 Mtr Away) with water cooled/ engine with 900 Ltrs fuel tank (Inbilt/External/To be confirmed by vendor) digital fuel gauge, and PSO601 controller compatible for AMF mode operation Suitable for the Sychronisation panel connectivity Including Alternator , AVM PADS, ACOUSTIC CANPOPY, with acoustic treating and support Factory test at manufacturing works , And BMS compatible as required.DG sets will be working in Stand Alone Mode Fuel tank shall have digital fuel gauge and remote fuel indication DG set shall be capable of running on 100% load for minimum 2 hours Complete with all necessary protection.& with exhaust pipe Suitable for 415 V, 3 phase / 4 Wire System , 50 Hz supply 1 set -LED Based Phase indicating lamps 1 set - Ammeter and Voltmeter with selectoe switch (Digital Type) with RS485 port with followings START/STOP/EME.STOP etc. and the accessories(EC2) Electronic Hooter with Accept/Reset Buttons 8 Window Annunciator for Faults/Trip signal from DG Switchgear - 1 No. - 1600A, ACB TP+ N, EDO with ,OC,UV, EF Relays 1 set -LED Based indicating lamps for ON/OFF/TRIP Status (with Rs485 shall be supplied with Microsoft windows' compatible software kits] PowerCommand digital genset control for AMF Operation control Suitable for synchronisation operation. As directed by Engineer in charge Make- CUMMINS / MAHINDRA/ PERKINS / CROMPTON / MTU/ GREAVES POWER	4	Set
12	ALLIED WORKS:	1.2.1	Transportation, loading,unloading, storing, Installation and commissioning of the above mentioned DG sets along with PSO601 Controller for AMF operation at demarkated position Rate Shall Also include the cost of first fill of the diesel for testing & commissioning of the DG sets along with Initial Battery Charging cost Cost to include obtaing the road permit from locat	1	Job

			authorities including all documentation As directed by Engineer in charge		
13	Liaison Charges	1.2.2	Liaison Charges for obtaining necessary approvals from MPCB and Fire Department, Local Electrorate, EI/CIEG, PWD etc. along with necessary coordination with other authorities. As directed by Engineer in charge		
			DG Set of 4 x 750 KVA	1	Job
14	DG SETS SYNCHRONISING PANEL	1.3.1	Supply Installation, Testing and Commissioning etc. of DG set synchronising panel with 80 KA , 4 nos, 1250 amp. Incomer EDO,ACB and 2 Nos EDO 2500 Amp. Out going ACB. & 1 no. EDO 2500 Amp. Spare ACB with all accessories Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity , Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. Or as directed etc. As directed by Engineer in charge Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	1	Each
		A.3	Supply Installation, Testing and Commissioning etc. of Accessories for 750 KVA D.G Set As directed by Engineer in charge Make- CUMMINS / MAHINDRA/ PERKINS / CROMPTON / MTU/ GREAVES POWER		
15	Exhaust Piping	1.1.1	M.S exhaust pipe with flanges, bends, etc 5 mm wall thickness. (B-Class)	20	Running Meter
16	Exhaust Piping	1.1.2	MS support for E.pipe (Angle, Channel of different size etc.) complete with fabrication ,erection & painting etc.	6,000	Kg
17	Exhaust Piping	1.1.3	50 mm thick insulation for exhaust pipe (Aluminium 24/26 SWG sheet & glass wool / rockwool for 500 mm dia	20	Running Meter
18	Exhaust Piping	1.1.4	Insulation of Residential silencer	4	Nos.
19	Fuel piping	1.2.1	1"dia M.S. 'B' class Fuel piping between Engine & Fuel Tank complete with Flanges, bends etc.	36	Running Meter
20	AVM Pads	1.2.2	AVM Pads	1	

21	BUS DUCT AND RISER MAIN (TR-1 TO LT PANEL)		Supply Installation, Testing and Commissioning etc of 2500A, 1000V, 50Hz, 50kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.1.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.1.2	Straight Length without Tap off Opening	20	Mtr
		1.1.3	Horizantal Bracket at Every 1 Mtr Inteval for Horizantal Busbar Installation	14	No.
		1.1.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.1.5	Horizantal Elbow	4	No.
		1.1.6	Vertical Elbow	4	No.
		1.1.7	Flange End only	4	No.
		1.1.8	End feed unit - direct cable termination arrangment only	1	No.
		1.1.9	End cover IP55	1	No.
		1.1.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
22	BUS DUCT AND RISER MAIN (TR-2 TO LT PANEL)		upply Installation, Testing and Commissioning etc. of 2500A, 1000V, 50Hz, 50kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical		

			agents. As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.2.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.2.2	Straight Length without Tap off Opening	20	Mtr
		1.2.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	14	No.
		1.2.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.2.5	Horizontal Elbow	4	No.
		1.2.6	Vertical Elbow	4	No.
		1.2.7	Flange End only	4	No.
		1.2.8	End feed unit - direct cable termination arrangment only	1	No.
		1.2.9	End cover IP55	1	No.
		1.2.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
23	BUS DUCT AND RISER MAIN (SYNC PANEL TO LT PANEL)		Supply Installation, Testing and Commissioning etc. of 2500A, 1000V, 50Hz, 50kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular cors-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.3.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.3.2	Straight Length without Tap off Opening	36	Mtr
		1.3.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	16	No.
		1.3.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	12	No.
		1.3.5	Horizontal Elbow	6	No.
		1.3.6	Vertical Elbow	4	No.
		1.3.7	Flange End only	4	No.
		1.3.8	End feed unit - direct cable termination arrangment only	1	No.
		1.3.9	End cover IP55	1	No.
		1.3.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.

24	BUS DUCT AND RISER MAIN (DG SYNC PANEL TO LT PANEL)		Supply Installation, Testing and Commissioning etc. of 2500A, 1000V, 50Hz, 80kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.4.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.4.2	Straight Length without Tap off Opening	36	Mtr
		1.4.3	Horizantal Bracket at Every 1 Mtr Inteval for Horizantal Busbar Installation	16	No.
		1.4.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	12	No.
		1.4.5	Horizantal Elbow	6	No.
		1.4.6	Vertical Elbow	4	No.
		1.4.7	Flange End only	4	No.
		1.4.8	End feed unit - direct cable termination arrangment only	1	No.
		1.4.9	End cover IP55	1	No.
		1.4.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
25	BUS DUCT AND RISER MAIN (DG-1 TO SYNC PANEL)		Supply Installation, Testing and Commissioning etc. of 1250A, 1000V, 50Hz, 80kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical		

			agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.5.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.5.2	Straight Length without Tap off Opening	35	Mtr
		1.5.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	25	No.
		1.5.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.5.5	Horizontal Elbow	4	No.
		1.5.6	Vertical Elbow	3	No.
		1.5.7	Flange End only	3	No.
		1.5.8	End feed unit - direct cable termination arrangment only	1	No.
		1.5.9	End cover IP55	1	No.
		1.5.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
26	BUS DUCT AND RISER MAIN (DG-2 TO SYNC PANEL)		Supply Installation, Testing and Commissioning etc. of 1250A, 1000V, 50Hz, 80kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.6.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.6.2	Straight Length without Tap off Opening	35	Mtr
		1.6.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	25	No.
		1.6.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.6.5	Horizontal Elbow	4	No.
		1.6.6	Vertical Elbow	3	No.
		1.6.7	Flange End only	3	No.
		1.6.8	End feed unit - direct cable termination arrangment only	1	No.
		1.6.9	End cover IP55	1	No.
		1.6.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.

27	BUS DUCT AND RISER MAIN (DG-3 TO SYNC PANEL)		Supply Installation, Testing and Commissioning etc. of 1250A, 1000V, 50Hz, 80kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.7.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.7.2	Straight Length without Tap off Opening	35	Mtr
		1.7.3	Horizantal Bracket at Every 1 Mtr Inteval for Horizantal Busbar Installation	25	No.
		1.7.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.7.5	Horizantal Elbow	4	No.
		1.7.6	Vertical Elbow	3	No.
		1.7.7	Flange End only	3	No.
		1.7.8	End feed unit - direct cable termination arrangment only	1	No.
		1.7.9	End cover IP55	1	No.
		1.7.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
28	BUS DUCT AND RISER MAIN (DG-4 TO SYNC PANEL)		Supply Installation, Testing and Commissioning etc. of 1250A, 1000V, 50Hz, 80kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical		

			agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.8.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.8.2	Straight Length without Tap off Opening	35	Mtr
		1.8.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	25	No.
		1.8.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	6	No.
		1.8.5	Horizontal Elbow	4	No.
		1.8.6	Vertical Elbow	3	No.
		1.8.7	Flange End only	3	No.
		1.8.8	End feed unit - direct cable termination arrangment only	1	No.
		1.8.9	End cover IP55	1	No.
		1.8.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
29	BUS DUCT AND RISER MAIN (FP-1 TO APFCR-1)		Supply Installation, Testing and Commissioning etc.of 2000A, 1000V, 50Hz, 36kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.9.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.9.2	Straight Length without Tap off Opening	22	Mtr
		1.9.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	14	No.
		1.9.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	11	No.
		1.9.5	Horizontal Elbow	5	No.
		1.9.6	Vertical Elbow	4	No.
		1.9.7	Flange End only	4	No.
		1.9.8	End feed unit - direct cable termination arrangment only	1	No.
		1.9.9	End cover IP55	1	No.
		1.9.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1.00	No.

30	BUS DUCT AND RISER MAIN (FP-2 TO APFCR-2)		Supply Installation, Testing and Commissioning etc. of 2000A, 1000V, 50Hz, 36kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular cross-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation. The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV. Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. As directed by Engineer in charge. Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.10.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	1	Mtr
		1.10.2	Straight Length without Tap off Opening	22	Mtr
		1.10.3	Horizontal Bracket at Every 1 Mtr Interval for Horizontal Busbar Installation	14	No.
		1.10.4	Vertical Spring Bracket at Every 1.5 Mtr Interval for Vertical Busbar Installation	11	No.
		1.10.5	Horizontal Elbow	5	No.
		1.10.6	Vertical Elbow	4	No.
		1.10.7	Flange End only	4	No.
		1.10.8	End feed unit - direct cable termination arrangement only	1	No.
		1.10.9	End cover IP55	1	No.
		1.10.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1.00	No.
	EXTERNAL LT PANEL		Note- ALL LT PANELS ARE TYPE TESTED - IP-52 RATING Breakers shall be compatible to monitored through' IBMS] The Energy multifunction meter with RS 485/RS232 port shall be provided as per SLD As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICAL/PRATIK SYSTEMS		
31	MAIN LT PANEL PART -1	1.1	MAIN LT PANEL PART -1 Supply, installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treated for rust proofing. with separate busbar chamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,	1	No.

		<p>Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity , Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. Or as directed etc.</p> <p>Main Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>DG Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs CT-2500/5A,15 VA BURDEN,CLASS- 1 WITH multifunction meter,</p> <p>Auto Transfer Switch for Solar:- 250 A, FP,ATS FOR SOLAR (PROVIDED FOR DG PROTECTION /SAFETY)</p> <p>Potential Bus/Busbar 1 set - 2500A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing : -ALL FEEDERS 50 KA , 800 KVA APFCR PANEL-1 No. -- 1600A 4P ACB,EDO,O/C,S/C.U/V,E/F , LIGHT,POWER, INDOOR AC, PANEL-1 No. -- 2000A 4P ACB,EDO,O/C,S/C.U/V,E/F ,LIFT PANEL-1 No. -- 400A 4P MCCB,MP O/C,S/C.U/V,E/F ,VEHICLE CHARGING PANEL-1 No. -- 630A 4P MCCB,MP O/C,S/C.U/V,E/F , UTILITY BUILDING DISTRIBUTION PANEL- 1 No. -- 160A 4P MCCB,TM O/C,S/C.,PUMP PANEL-2- 1 No. -- 63A 4P RCBO,O/C,S/C.,SPARE-1 No. -- 2000A 4P MCCB,MP O/C,S/C.U/V,E/F ,SPARE-1 No. -- 1600A 4P MCCB,MP O/C,S/C.U/V,E/F, SPARE-1 No. -- 630A 4P MCCB,MP O/C,S/C.U/V,E/F.</p> <p>Bus Coupler - 2500 A 4P BUS COUPLER, 50 KA</p>		
32	MAIN LT PANEL -PART 2	<p>MAIN LT PANEL -PART 2</p> <p>Supply,installation, testing & commissioning etc of LT panel Construction- Floor mounted cubicle type Panel Enclosure Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p>		

			<p>Main Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>DG Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs CT-2500/5A,15 VA BURDEN,CLASS- 1 WITH Multifunction meter,</p> <p>Potential Bus/Busbar 1 set - 2500A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :All feeder 50 KA , CHILLER PLANT-1 No. -- 1250A 4P ACB,EDO,O/C,S/C., 125 TR CHILLER ALONG WITH 620 TR CHILLER -1 No. -- 315A 4P MCCB TM,EDO,O/C,S/C.,AC VRV,VENTILATION,PL,EXT LIGHT PANEL-1 No. -- 2000A 4P ACB,EDO,O/C,S/C. ,FIRE FIGHTING PANEL-1 No. -- 500A 4P MCCB,MP O/C,S/C.,PUMP PANEL-1- 1 No. - - 63A 4P RCBO,O/C,S/C.,,800 KVA APFCR PANEL-1 No. -- 1600A 4P ACB,EDO,O/C,S/C.spare-1 No. -- 2000 A,4P ACB O/C,S/C.U/V,E/F , SPARE-1 No. -- 1250A 4P ACB, O/C,S/C.,SPARE-1 No. -- 400A 4P MCCB MP, O/C,S/C. As directed by Engineer in charge</p> <p>Make -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING</p>		
33	APFCR PANEL	1.2	<p>APFCR PANEL- AS PER SLD - IP-52 Breakers shall be compitable to monitored through' IBMS]</p> <p>Supply,installation,testing & commissioning of panel Construction- Floor mounted cubicle type panel, IP 52 Enclosure Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treted for rust proofing with separate busbarcamber & cable chambers, Front/back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply Main Control Unit/ Incomer Suitable rating ACB EDO/ MCCB, TM/MP, FP/TPN O/C,S/C,E/F,U/V and shunt coils as required Breakers shall be compitable to monitored through' IBMS], LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Potential Free Contacts for Remote Monitoring The Energy multifunction meter with RS 485/RS232 port shall be provided as per SLD,</p>	2	No.

			<p>Main Control Unit/ Incomer 1No. - 1600A ACB EDO,36kA,FP/MP O/C,S/C,E/F,U/V and LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/TRIP lamps with control RCBOs Set - Manual Operation Selector switch Potential Free Contacts for Remote Monitoring.</p> <p>Potential Bus/Busbar 1 set - 1600 A TPN +E 91E Aluminium busbar Insulated with heat shrinkable sleeves,</p> <p>FEEDER OUTGOING - (ALL FEEDER OF 36KA):-1 NO. 25A,1 NO. 32A, 1 NO. 63 A, 1 NO. 100A ,7 NO 200A, MCCB TPN,16KA with , 1 NO. 25A,1 NO. 32A, 1 NO. 63 A, 1 NO. 100A ,7 NO 200A Contactor ,with thyrister/thermister controls. with ON/OFF lamp & Start/Stop Push Button 1 NO. 10 KVAR,1 NO. 15 KVAR,1 NO. 25 KVAR , 1 NO 50 KVAR, 7 NO 100 KVAR, Capacitor panel to be provided With 7% detuned capacitors APP/MPP CAPACITOR heavy duty,with thyrister/thermister controls. [All the outgoing feeders shall have 'ON' /'OFF'/'TRIP' ,indication/Lamps. I/C's shall be mechanically & Electrically interlocked All the Lamps shall be of LED Type Only Breakers shall be compitable to monitored through' IBMS]. As directed by Engineer in charge.</p> <p>Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING/HAVELLS</p>		
34	PUMP PANEL-1	1.3	<p>PUMP PANEL-1</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 63A MCCB,10kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>OWC -1 No. -- 32A TPN RCBO</p> <p>WATER BODY-1,2 (1W+1S) -4 No. -- 40A TPN RCBO</p> <p>WATER BODY-3,4 (1W+1S) -4 No. -- 25A TPN RCBO</p> <p>BIOGAS PLANT -1 No. -- 32A TPN RCBO</p> <p>SPARE - 1 Nos - 25A TPN RCBO</p> <p>SPARE - 1 Nos - 32A TPN RCBO</p>	1	No.

			<p>SPARE - 1 Nos -40A TPN RCBO</p> <p>As directed by Engineer in charge Make -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINEERS /ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS</p>		
35	PUMP PANEL-2	1.4	<p>PUMP PANEL-2</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 63A MCCB, 10kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set -63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>WATER TRANSFER PUMP-1 No. -- 40A TPN RCBO (BMS COMPATIBLE ENERGY METER)</p> <p>RWH PLANT - 2 No -- 40A TPN RCBO</p> <p>SUMP PUMP FOR FIREFIGHTING ROOM - 2 Nos- 25 A TPN RCBO</p> <p>BASEMENT PUMP PANEL - 1 No - 40A TPN MCCB O/C,S/C, TM</p> <p>COOLING TOWER MAKE WATER TRANSFER FROM STP TREATED WATER - 1 No- 40A TPN RCBO</p> <p>SPARE- 1 Nos- 40A TPN RCBO</p> <p>SPARE- 1 Nos- 63A TPN RCBO</p> <p>SPARE- 1 Nos- 100A TPN MCCB O/C,S/C,</p> <p>As directed by Engineer in charge Make -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINEERS /ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS</p>	1	No.
36	BASEMENT PUMP PANEL	1.5	<p>BASEMENT PUMP PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p>	1	No.

			<p>Control Unit/ Incomer- 1 No. - 40A MCCB, 10kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 40A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>SUMP PUMP -6 No. -- 25A TPN RCBO</p> <p>FLOODING PUMP IN BASEMENT -4 No. -- 40A TPN RCBO</p> <p>CUTTER PUMP IN BASEMENT -4 No. --25A TPN RCBO</p> <p>SPARE - 2 Nos - 40A TPN RCBO</p> <p>SPARE - 1 Nos - 25A TPN RCBO</p> <p>As directed by Engineer in charge Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS</p>		
37	VEHICLE CHARGER PANEL	1.6	<p>VEHICLE CHARGER PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 630A MCCB, 16kA, TPN /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 630A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>CAR CHARGING POINT DB - 1 No. -- 200A TPN MCCB,TM 16kA,</p> <p>BIKE CHARGING POINT DB-1-1 No. -- 160A TPN MCCB,TM 16kA,</p> <p>BIKE CHARGING POINT DB-2-1 No. -- 160A TPN MCCB,TM 16kA,</p> <p>BIKE CHARGING POINT DB-3-1 No. -- 160A TPN MCCB,TM 16kA,</p> <p>SPARE -1 No. -- 200A TPN MCCB 16kA,</p> <p>SPARE -1 No. -- 160A TPN MCCB 16kA,</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS</p>	1	No.
38	UTILITY	1.7	UTILITY BUILDING DISTRIBUTION PANEL	1	No.

	<p>BUILDING DISTRIBUTION PANEL</p>		<p>Supply, installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treated for rust proofing. with separate busbar chamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 160A MCCB, 16kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 160A TPN+E 91E Aluminium busbar, Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing : ALL FFEDER OF 16 KA</p> <p>LIGHT DB FOR STP -1 No. --25A TPN RCBO</p> <p>STP ROOM EX FAN DB -1 No. --40A TPN RCBO</p> <p>CHILLER PLANT EX FAN DB- 1 No. --40A TPN RCBO</p> <p>WATER TRANSFER PUMP- 2 No. --63A TPN RCBO</p> <p>LANDSCAPE IRRIGATION PUMP - 2 No. --63A TPN RCBO</p> <p>STP 70 KLD- 1 No. --63A TPN RCBO</p> <p>SUMP PUMP FOR STP- 2 No. --25A TPN RCBO</p> <p>COOLING TOWER MAKEUP WATER FROM STP- 2 No. --40A TPN RCBO</p> <p>SUMP PUMP FOR STP- 2 No. --25A TPN RCBO</p> <p>LIGHT DB FOR CHILLER PLANT -1 No. --25A TPN RCBO</p> <p>CHILLER ROOM EX FAN DB -1 No. --40A TPN RCBO</p> <p>LIGHT DB FOR DG AREA -1 No. --25A TPN RCBO</p> <p>LIGHT DB FOR TRANSFORMER AREA -1 No. --25A TPN RCBO</p> <p>SUBSTATION FAN DB -1 No. --32A TPN RCBO</p> <p>SOFTNER FOR THIRD PARTY GREY WATER -1 No. --25A TPN RCBO</p> <p>LDB FOR UTILITY BLOCK TERRACE AREA- 1 No. --25A TPN RCBO</p> <p>SCADA ROOM -1 No. --40A TPN RCBO</p> <p>SPARE - 2 Nos - 25A TPN RCBO</p> <p>SPARE - 1 Nos - 32A TPN RCBO</p> <p>SPARE - 1 Nos - 40A TPN RCBO</p> <p>SPARE - 1 Nos - 63A TPN RCBO</p> <p>As directed by Engineer in charge Make -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINEERS /ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T</p>		
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			/ HAVELLS		
39	EXTERNAL LIGHT PANEL	1.8	<p>EXTERNAL LIGHT PANEL</p> <p>Supply, installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treated for rust proofing. with separate busbar chamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. -160A MCCB, 10kA, FP /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 160A TPN+E 91E Aluminium busbar, Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>DRYWAY & PARKING LIGHT DB -4 No. --25A TPN RCBO</p> <p>1ST FLOOR LANDSCAPE LDB -1 No. --25A TPN RCBO</p> <p>WATER BODY LDB - 1 No. --25A TPN RCBO</p> <p>AMPHI THEATER LDB 1 No. --25A TPN RCBO</p> <p>BUILDING FACADE & LANDSCAPE LDB-1-1 No. --40A TPN RCBO</p> <p>BUILDING FACADE & LANDSCAPE LDB-2-1 No. --40A TPN RCBO</p> <p>BUILDING FACADE & LANDSCAPE LDB-3-1 No. --40A TPN RCBO</p> <p>BUILDING FACADE & LANDSCAPE LDB-4-1 No. --40A TPN RCBO</p> <p>SPARE - 1 Nos - 40A TPN RCBO</p> <p>SPARE - 1 Nos - 40A TPN RCBO</p> <p>SPARE - 1 Nos - 25A TPN RCBO</p> <p>As directed by Engineer in charge Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINEERS / ABAC / ZENIT ENGINEERING Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS.</p>	1	No.
	EXTERNAL COMMON AREA				
	LT CABLE / LUGS /GLANDS:-				
	1.1 kV grade stranded Cu conductor, XLPE insulated, FRLSOH CABLE				

40		1.2.1	Supplying, erecting & terminating of FRLSOH armoured cable 2 core 4 sq mm copper cable As directed by Engineer in charge	35	M
41		1.2.2	Supplying, erecting & terminating of FRLSOH armoured cable 2 core 6 sq. mm. copper cable. As directed by Engineer in charge	35	M
42		1.2.3	Supplying, erecting & terminating of FRLSOH armoured cable 2 core 10 sq. mm. copper cable. As directed by Engineer in charge	35	M
43		1.2.4	Supplying, erecting & terminating of FRLSOH armoured cable 4 core 4 sq. mm. copper cable. As directed by Engineer in charge	1000	M
44		1.2.5	Supplying, erecting & terminating of FRLSOH armoured cable 4 core 6 sq. mm. copper cable. As directed by Engineer in charge	2000	M
45		1.2.6	Supplying, erecting & terminating of FRLSOH armoured cable 4 core 10 sq. mm. copper cable. As directed by Engineer in charge	1000	M
	1.1 kV grade stranded Al conductor, XLPE insulated, FRLSOH CABLE				
46		1.2.7	Supplying, erecting & terminating of FRLSOH armoured cable 4 core 16 sq. mm. aluminium cable. As directed by Engineer in charge	35	M
47		1.2.8	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 16 sq. mm. aluminium cable. As directed by Engineer in charge	50	M
48		1.2.9	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 35 sq. mm. aluminium cable. As directed by Engineer in charge	35	M
49		1.2.10	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 50 sq. mm. aluminium cable. As directed by Engineer in charge	35	M
50		1.2.11	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 70 sq. mm. aluminium cable. As directed by Engineer in charge	800	M
51		1.2.12	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 95 sq. mm. aluminium cable. As directed by Engineer in charge	35	M
52		1.2.13	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 120 sq. mm. aluminium cable. As directed by Engineer in charge	35	M
53		1.2.14	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 150 sq. mm. aluminium cable. As directed by Engineer in charge	200	M
54		1.2.15	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 185 sq. mm. aluminium cable. As directed by Engineer in charge	700	M

55		1.2.16	Supplying, erecting & terminating of FRLSOH armoured cable 1100 V. 3½ core 240 sq. mm. aluminium cable. As directed by Engineer in charge	2800	M
56		1.2.17	Supplying, erecting & terminating of FRLSOH armoured cable 3½core 300 sq. mm. aluminium cable. As directed by Engineer in charge	1000	M
	Wiring for circuit/ submain wiring along with earth wire		Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLSZH insulated copper conductor wire in surface/ recessed hot dipped GI conduit as required. As directed by Engineer in charge Make (WIRE) - RR / FINOLEX / ANCHOR / POLYCAB / HAVELS Make (CONDUIT) - BEC / VIMCO / JINDAL		
57		1.3.4	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire in 20mm gi Conduit	2200	M
58		1.3.5	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire in 20mm gi Conduit	2750	M
59		1.3.6	2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25mm gi Conduit	880	M
60	perforated type cable tray	1.4.5	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	150	M
61	perforated type cable tray	1.4.6	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	150	M
62	perforated type cable tray	1.4.7	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	150	M
63	perforated type cable tray	1.4.8	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 400 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	150	M
64	perforated type cable tray	1.4.9	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 500 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	150	M

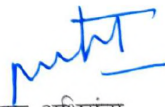
65	ladder type cable tray	1.4.10	Providing & erecting Hot dipped galvanized ladder type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 1000 mm width & 100 mm height comprising all required standard accessories.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	400	M
66	TIMER FOR LIGHT	1.5.1	Supplying installation testing and commissioning of TIMER FOR LIGHT As directed by Engineer in charge. Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	60	EACH
67	HDPE PIPE/CONDUIT	1.9.11	Supply & laying I.S.I. mark 'B' class GI Pipe for surface / under ground cable protection As directed by Engineer in charge Make - BEC / VIMCO / JINDAL		
			20 mm dia.	50	RMtr.
			25 mm dia.	50	RMtr.
	EXTERNAL LIGHT FIXTURE				
68	LED OUTDOOR LIGHTS	1.1.10	Supplying and erecting LED flood light fitting of 200W, including lamp , with PF > 0.95,class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium.As directed by Engineer in charge. Make - PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	2	Each
69	LED OUTDOOR LIGHTS	1.1.14	Supplying and erecting highbay LED fitting IP 65 with lamp 140W-150W , CRI> 80,CCT upto 3000-6000K, PF >0.95 duly connected complete with accessories as per specification no. FG-ODF/LED. As directed by Engineer in charge. Make - PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	2	Each
70	LED OUTDOOR DECORATIVE LIGHTS	1.2.2	Supplying and erecting recess mounted 20W LED wall washers, tilted 70° outwards and swivels 360° to offer best illumination on the wall with any colour with driver complete. (Including Compatible Driver).As directed by Engineer in charge. Make - PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	30	Each
71	LED OUTDOOR DECORATIVE LIGHTS	1.2.3	Supplying and erecting recess mounted 30W LED wall washers, tilted 70° outwards and swivels 360° to offer best illumination on the wall with any colour with driver complete. (Including Compatible Driver).As directed by Engineer in charge. Make - PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	15	Each
72	LED OUTDOOR DECORATIVE LIGHTS	1.2.4	Supplying & erecting 12W LED PAR (30 Lamp E-27 Base, SPOTO series) lights by making necessary arrangement/recess in wall to make it flush with surface.As directed by Engineer in charge. Make - PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	25	Each
73	LED OUTDOOR DECORATIVE LIGHTS	1.2.5	Supplying & erecting 20W LED PAR (30 Lamp E-27 Base, SPOTO series) lights by making necessary arrangement/recess in wall to make it flush with surface.As directed by Engineer in charge.	20	Each

			Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO		
74	LED OUTDOOR DECORATIVE LIGHTS	1.2.6	Supplying and erecting cylindrical shaped integral decorative with high power 12W-16W LED bollard upto 1000mm with opal acrylic diffuser and IP65 protection on provided foundation complete.As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	20	Each
75	LED OUTDOOR DECORATIVE LIGHTS	1.2.7	Supplying and erecting mushroom shaped integral 12W-16W LED decorative bollard upto 680mm with IP65 protection on provided foundation complete.As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	20	Each
76	LED OUTDOOR DECORATIVE LIGHTS	1.2.8	Supplying and erecting 40W LED post top made in cast aluminium spigot housing with decorative clear opal acrylic diffuser and IP65 protection on provided pole/ bracket. As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	20	Each

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) अनु क्रं. १ ते ३९ मधील सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी पाच वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.
- ५) अनु क्रं. ४० ते ७६ मधील सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/ 2329 /प्र.क्र. ०३/२०३२(१)/२०२३

दि. ०८/०८/२०२३

प्रत माहितीस्तव -

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे. (FIRE FIGHTING NON CSR ITEM)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	BOQ ITEM REF.	ITEM DESCRIPTION	QTY	UNIT
FIRE FIGHTING NON CSR ITEM					
1	MAIN FIRE DIESEL PUMP	1.4	<p>Supplying, installation, testing and commissioning of main fire pump (MFP /EP) suitable for water discharge of 2280 to 2850 LPM at 140 to 120 m head driven by electric motor 415 volts, 3 phase 50 Hz, AC supply of 93kW or of suitable kW capacity for manual/automatic operation and consisting of following:(MAIN DIESEL DRIVEN PUMP) MAKE- Kirloskar/ KSB / Wilo/Grundfos</p> <p>(a) Horizontal type, single/multi stage, centrifugal/split casing pump of cast iron body & bronze impeller with stainless steel shaft(SS410 grade), mechanical seal conforming to IS 1520.</p> <p>(b) Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.</p> <p>(c) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>(d) Erected on provided suitable size cement concrete foundation duly plastered with anti vibration pads with perfect aligning, proper levelling complete pump set with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003) complete, as per specification no. FF-MFP/SSC/MS/EP</p> <p>The pump shall be of the following specifications:</p> <p>Discharge - 2280 to 2850 LPM</p> <p>Head - 140 to 120 m</p>	1.00	SET

			No. of stage preferred - single/multi		
			Speed RPM - 3000		
			Material of construction		
			a) Impeller - Bronze		
			b) Casing - C.I.		
			c) Shaft & Shaft Sleeve - SS-410		
			d) Bearing - Grease Lubricated		
			e) Seal & Make - Mechanical		
			Type of pump - End suction		
			Main Fire Control Electrical Panel (With Fire Gas suppression Arrangement)- DB Electricals/VIVID Electromech/ GOEL Power/Arrow Engineers/ Zenit		
			Design, manufacture, supplying, fixing in position, testing and commissioning of the following front operated cubicle type, front access 2mm thick steel enclosed free standing, dust and vermin proof, switchboard with IP 52 protection with hinged and lockable doors complete with interconnections, tinned copper crimping lugs, bonding to earth and painting, suitable for use at 415 volts, 3 phase 4 wire 50 Hz system and suitable for a fault level of 25 MVA symmetrical at 415 volts with a suitable power capacitor to improve power factor, and Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation. Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity, Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. or as directed etc. All switchboards shall have provision for entry of cables from the top or bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be lockable in OFF position. Interlocking arrangement shall be provided such that when Main Pump starts Jockey Pump should stop and vice versa.		
		1.6	Switcgear make:- Schnieder/Legrand/Siemens/L&T		
			1.6.1 INCOMER		
			1 Nos.630 amps 4P incoming microprocessor based 4P MCCB with following accessories:		
			1.6.2 Metering		
			1 set 0-500 volts digital electronic volt meter with selector switch protected by 2 amps TP MCB's.		
			0-400 Amps digital electronic ammeter with selector switch and 400/5 amps 15 VA, CL 1 CTs .		
			1 No KWH meter with suitable CT's.		
2	FIRE CONTROL ELECTRICAL PANEL				

			Phase indicating light protected by 2 amps SP MCB's.		
		1.6.3	BUSBAR		
			630 amps TPN aluminium bus bars (36 KA for 1 sec.) with coloured heat shrinkable insulated sleeve.		
		1.6.4	OUTGOING UNITS		
			Diesel engine battery charger: - 25 Amp. TPN MCCB ,36 KA		
		1.6.5	Hydrant Main Pump		
			1 Nos 250 amps TP MCCB of 36 kA breaking capacity with 111 kW SOFT starter. These compartment shall contain CT operated digital ammeter of 0-400 amps range with selector switch, and an indicating lamp with 2A SP MCB		
		1.6.6	Hydrant Jockey Pump		
			1 Nos 63 amps TP MCCB of 36 kA breaking capacity with 11.2 kW Star delta starter . These compartment shall contain CT operated digital ammeter of 0-63 amps range with selector switch, and an indicating lamp with 2A SP MCB		
			Interlocking arrangement shall be provided such that when Main Pump starts Jockey Pump should stop and vice versa.		
		1.6.7	Sprinkler Main Pump		
			1 Nos 250 amps TP MCCB of 36 kA breaking capacity with 111 kW SOFT starter. These compartment shall contain CT operated digital ammeter of 0-400 amps range with selector switch, and an indicating lamp with 2A SP MCB		
		1.6.8	Sprinkler Jockey Pump		
			1 Nos 63 amps TP MCCB of 36 kA breaking capacity with 11.2 kW Star delta starter. These compartment shall contain CT operated digital ammeter of 0-63 amps range with selector switch, and an indicating lamp with 2A SP MCB		
		1.6.9	For charging Deisel Engine Battery		
			25 amp DP MCB 25 kA breaking capacity		
3	BOOSTER PUMP ELECTRICAL PANEL	1.7	OUTDOOR TYPE FIRE FIGHTING BOOSTER PUMP ELECTRICAL PANEL	2.00	Nos.
		1.7.1	INCOMING (FEEDER FROM COMMON AREA MAIN PANEL)		
			1 Nos. 63 amps TP incoming TM based TP MCCB with following accessories:		
			1 set 0-500 volts digital electronic volt meter with selector switch protected by 2 amps DP MCB's.		
			0-100 Amps digital electronic ammeter with selector switch and 400/5 amps 15 VA, CL 1 CTs.		
			Phase indicating light protected by 2 amps SP MCB's.		
		1.7.2	BUSBAR		
			100 amps TPN aluminium bus bars (16 KA for 1 sec.) with coloured heat shrinkable insulated sleeve.		
		1.7.3	OUTGOING UNITS		

			Booster fire Pump		
			1 Nos 63 amps TP MCCB of 16 kA breaking capacity with Star-Delta starter (type 2 co ordination chart shall be refered for starters). These compartment shall contain CT operated digital ammeter of 0-100 amps range with selector switch, and an indicating lamp with 2A SP MCB		
4	PUSH BUTTON	1.30	Providing, installation, testing, & commissioning of 63 amp. Push button station suitable for out door ,with out starter for fire fighting terrace pump by pass manual operation (start and stop) and to be located at ground floor level and terrace level complete in all respects. Local Push Button station:- DB Electricals/VIVID Electromech/ GOEL Power/Arrow Engineers/ Zenit	2.00	Set
5	Neoprene Flexible Pipe	1.31	Providing and fixing reinforced Neoprene flexible pipe connectors with all accessories on all pumps delivery.		
		1.31.1	80 mm	4.00	Each
		1.31.2	150 mm	10.00	Each
6	MOTORISED VALVE	2.8	Providing and fixing Motorised valve suitable for 240 Volts , with suitable motorised rotor and control panel , to operate gravity line from OH Fire Tank to Low Level Wet Riser Motorised valve make:-Belimo /Honeywell /Siemens/L&T	2.00	Each
7	SINLE OUTLET HYDRANT VALVE	2.23	Supplying and erecting floor mounted stainless steel single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV. Supplying fire fighting reinforced rubber lined (R.R.L.) hose pipe, 63mm dia, 15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/RRL Fire Brigade Header make- Indian Rayon/Newage/ safex	9.00	Each
8	FIXED TYPE WATER MONITER	2.24	Supply ,installation ,testing and commissioning of Fixed type Water Monitor, 50 Mtr throw,63 mm,with 2 no, Gunmetal or Stainless Steel Swivel Joints with Ball Bearing, Tiller Bar fixed on the Barrel ,threaded Locks ,for flow direction control Water Monitor MAKE- Indian Rayon/Newage/ Safex	2.00	Each
9	GUNMETAL BALL VALVE	3.14	Providing & fixing 25 mm dia gunmetal inspecting & testing assembly with ball valve (3 nos.), 25mm sight glass, by pass valve & connected to drain line. Ball Valve make:Leader /Sant/Zoloto	55.00	Each
10	UPRIGHT SPRINKLER	3.16	15 mm dia. quartzoid bulb type G. M upright sprinkler head K 5.6/80 set to operate at 68 Deg.C, UL/FM Approved and as per IS 9972. make:-Tyco / Grinnel/Newage/HD	2319.00	Each
11	SIDE WALL SPRINKLER	3.17	15 mm dia. quartzoid bulb type G. M side wall sprinkler head K 5.6/80 set to operate at 68 Deg.C, UL/FM Approved and as per IS 9972. make:-Tyco / Grinnel/Newage/HD(FOR PROVISION)	38.00	Each

12	QUICK RESPONSE PENDENT SPRINKLER 68 DEG.	3.18	15 mm dia. quartzoid bulb type G. M Quick Response Pendent sprinkler head K 8/115 set to operate at 68 Deg.C, UL/FM Approved and as per IS 9972. make:-Tyco / Grinnel/Newage/HD	253.00	Each
13	QUICK RESPONSE PENDENT SPRINKLER 93 DEG.	3.19	15 mm dia. quartzoid bulb type G. M Quick Response Pendent sprinkler head K 8/115 set to operate at 93 Deg.C, UL/FM Approved and as per IS 9972. make:-Tyco / Grinnel/Newage/HD(FOR KITCHEN AND PANTRY AREA)	46.00	Each
14	FLEXIBLE BRAIDED DROPER PIPE 1500 MM	3.20	Providing and fixing flexible braided dropper pipes upto 1500 mm length from ceiling with necessary reducer coupling (dropper length specified to deflector of sprinkler) etc complete. Flexible dropper pipe make- Indian Rayon/Newage/ safex	1600.00	Each
15	FLEXIBLE BRAIDED DROPER PIPE 1000 MM	3.21	Providing and fixing flexible braided dropper pipes upto 1000 mm length from ceiling with necessary reducer coupling (dropper length specified to deflector of sprinkler) etc complete. Flexible dropper pipe make- Indian Rayon/Newage/ safex	1200.00	Each
16	WATER FLOW DETECTOR	3.25	Supplying & erecting vane type water flow detector suitable for detecting flow of water in wet sprinkler pipe of main line or branch lines of 150 mm dia having following features 1) Visual Switch Activation 2) Rugged Switch Assembly 3) Heavy Duty Alluminium pipe Saddles 4) Durable Metal Encloser 5) Steel U Bolts For Secure Mounting 6) Two SPDT (Single Pole Double Track) Synchronised Switches 7) Serviceable Without Draining Pipes. Water Flow detector/Flow switch:Siemens / Honeywell / Johnson Control	26.00	Each
17	CONTROL VALVE	3.26	Providing, Installation, testing and commissioning of Control Valve inclusive of : (for each phase) Control/alarm valve make:-Newage/ HD Fire/ Mather & Platt/Ascoa Sprayface	1.00	Each
		3.26.1	Alarm Valve with Water Motor Gong		
		3.26.2	Glycerin filled Pressure gauge and other miscellaneous		
		3.26.3	Valves and fittings as required.		
18	DELUGE VALVE	4.9	Deluge valves of PN16 Rating with tamper Switch, accessories, Tap off Socket Arrangement as Required, Potential free contact with 2 nos. NO / NC, complete as per the technical specifications and drawings. Rates shall be inclusive of galvanised bolts, nuts and washers and gaskets. Deluge valve MAKE- Indian Rayon/Newage/ Safex		
		4.9.1	80 mm	4.00	Each
		4.9.2	100 mm	0.00	Each
19	WATER CURTAIN NOZZLE	4.11	Water Curtain Nozzle K23, with 15mm Dia end connection complete as per Technical Specifications and Drawings. Nozzle shall be of brass construction, chrome finish with orifice not less than 6mm.Nozzles shall be UL Listed / FM approved. Water Curtain nozzle MAKE:-Tyco / Grinnel/Newage/HD	165.00	Each


20	ABC POWDER TYPE EXTINGUISHER	5.1	Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 /15683 of 6 kg capacity with necessary clamp for erection on wall. Extiguisher make:-Jainax Fire / Safeguard/ Safex/ Ceasefire	93.00	Each
21	FIRE BUCKET	5.3	Providing Round bottom FIRE Bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/ wall hook. Make: Indian Rayon/Newage/ Safex	6.00	Each
22	FLOOR MOUNTING STAND FOR FIRE BUCKET	5.4	Providing Floor mounting stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint. Make: Indian Rayon/Newage/ Safex	8.00	Each
23	WALL HOOK FOR FIRE BUCKET	5.5	Supplying and erecting Wall hook 225 mm projection for keeping fire buckets made out of 15 mm dia. M.S. Rod grouted in wall to a depth of minimum 15cms. Make: Indian Rayon/Newage/ Safex	8.00	Each
24	FIRST AID BOX	5.6	Supplying standard first aid box with necessary antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage,medicated ready to use bandage (Band-aid) adhesive tape for medicinal use, scissors, antiseptic solution (Savlon or similar) etc. (All above contents shall be of standard makes) Make:-Jainax Fire / Safeguard/ Safex/ Ceasefire	9.00	Each
25	DCP TYPE FIRE EXTINGUISHER	5.7	Supplying and erecting D.C.P. type Fire Extinguisher 9 kg capacity cartridge type with Gun Metal cap 150 gram CO2 gas cartridge, powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50x6 mm M.S. flat with nuts & bolts grouted in wall complete.(1 @ each LMR room). Make:-Jainax Fire / Safeguard/ Safex/ Ceasefire	18.00	Each
26	BRATHING APPARATUS	5.8	Breathing Apparatus comprising of: a) Back plate with Demand Valve b) Silicone full face mask c) Carbon Composite cylinder with MSA valve. Make:-Newagefire/Shrijit Fire/Nishant Enter.	1.00	Set
27	LIASIONING AUTHORITY	5.9	Liasioning Work For fire fighting works of Mumbai Municipal Corporation including getting all necessary permissions & approvals from them all complete.	1.00	Lot

अटी व शर्ती:

- १) सीलबंद निविदा दि. १० / ०८ / २०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१ / ०८ / २०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.

४) सर्व वस्तुंसाठी बरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करुन दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजुर अथवा ना मंजुर करण्याचा हक्क पनवेल महानगरपालिकेने राखुन ठेवला आहे.


शहर अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/ 2321 /प्र.क्र. 03/ 2032(3)/2023

दि. ०१/०८/२०२३

प्रत माहितीस्तव -

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे. (GAS Suppression System)	१०/०८/२०२३ ते २१/०८/२०२३

Specification


SR. NO.	ITEM	REF ITEM	ITEM DESCRIPTION	QTY	UNIT
GAS SUPPRESSION SYSTEM					
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
	Gas Suppression system		Supply ,installation,testing and commssioning of Gas Suppression system :- Inert Gas System (IG - 541) Clean Agent System (300 bar) for server room (6.4 MTR X 5.4 MTRx3.0 MTR HT) Make: Johnson controls, Fire Safe technologies LLP & MSD Control		
			Filled Cylinders, including reserve cylinders (300 Bar working pressure) with valves, Inertech Pressure Controllers, Inertech Check Valves, Pressure switches, Pneumatic Actuators, Solenoid Actuators, Discharge Hoses, Actuation hoses, Discharge Pressure Swilches & Inertech Nozzles, piping,manifold, gas release panel, battery and battery charger,warning sign etc.		
		1	Fire Suppression System comprising following items	1	Lot
1	Inert Gas System (IG - 541) Gas cylinder	1.1	Inert Gas System (IG - 541) Gas cylinder c/w discharge valve, pressure gauge with Pressure Switch, Integrated solenoid & syphon tube.	2	Nos.
2	Inert Gas System (IG - 541)	1.2	Inert Gas System (IG - 541)	200	Kgs
3	Manual Pneumatic Actuator	1.3	Manual Pneumatic Actuator	2	Nos.
4	Pneumatic Actuator	1.4	Pneumatic Actuator	2	Nos.
5	Discharge Flexible Hose	1.5	Discharge Flexible Hose	2	Nos.

6	Pilot Hose	1.6	Pilot Hose	2	Nos.
7	Check valve	1.7	Check valve.	2	Nos.
8	Discharge Pressure switch	1.8	Discharge Pressure switch	1	Nos.
9	Discharge Nozzle Brass	1.9	Discharge Nozzle Brass	3	Nos.
10	Cylinder Manifold	1.10	Cylinder Manifold	2	Nos.
11	2 Way Manifold	1.11	2 Way Manifold	1	Nos
12	Cylinder Clamp & Brackets.	1.12	Cylinder Clamp & Brackets.	4	Nos
13	Gas Discharge Indicator	1.13	Gas Discharge Indicator	1	Nos
14	Seamless pipes	1.14	Seamless pipes as per ASTM A106 Gr B, Sch 40	1	Lot
15	Pipe Fittings	1.15	Pipe Fittings	1	Lot
16	Gas Release Unit	1.16	Gas Release Unit	1	Nos
17	Gas Inhibit Unit	1.17	Gas Inhibit Unit	1	Nos
18	Single Area Gas Release Panel	1.18	Single Area Gas Release Panel With Main & Standby Selector Switch and Battery backup	1	Nos
19	Horn With Flashing Lamp	1.19	Horn With Flashing Lamp	2	Nos
20	Warning sign	1.20	Warning sign (inside the room).	1	Nos.
21	Warning sign	1.21	Warning sign (outside the room).	1	Nos.
22	PVC insulated FRLS CU Cable.	1.22	2c x 1.5 sq.mm Cu conductor PVC insulated FRLS Cable.	150	Mtr
23	SITC of above items complete,	1.23	SITC of above items complete, etc as per the Engineer Incharge. Make: Johnson controls, Fire Safe technologies LLP & MSD Control	1	Lot

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


 शहर अभियंता
 पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२१ /प्र.क्र. ०३/२०३२(४)२०२३

दि. ९/८/२०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे. (IoT Based IBMS)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
BMS & IBMS					
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY/GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
			Intelligent Building Management System, Wi fi based ,IoT & CLOUD BASED , WEB EX reports , ,JOHNSON CONTROL/ SIEMENS/ HONEYWLL/SCHNEIDER/L&T/PANASONIC /75 FSMART INNOVATION/MSD CONTROL/ENLITE		
1	IoT & Cloud BASED SOFTWARE	1	Supply, installation, testing and commissioning of IoT & Cloud BASED SOFTWARE(CLOUD ENABLED),Web ex , and also providing sufficient Cloud space for all the DATA/Error codes/WEB EX reports	1	Lot
			Necessary Buliding Management System Software and Software license as required to execute the all required function, Cloud data, Cloud reports, necessary dynamic graphics and building plans, Energy Management System, IBMS Programme, alarms, trends, reports, as per specifications, as directed, complete, etc. MAKE:- JOHNSON CONTROL/ SIEMENS/ HONEYWLL/SCHNEIDER/L&T/PANASONIC /75F SMART INNOVATION/MSD CONTROL//ENLITE		

			Quantity of IO points as per IO summary enclosed (Approximately -2700 ANALOUGE/DIGITAL POINTS +11000 SOFT POINTS), THE SOFTWARE SHOULD BE ABLE TO GENERATE THE CLOUD ELIPTICAL REPORTS ,WEB EX Reports AND SHOULD HAVE LIMITED REMOTE ACCESS		
	INTEGRATION		INTEGRATION		
			Integration of standalone Systems with BMS (All hardware and software required for integration with the specific standalone system with BMS shall be supplied by respective contractor) for the below listed,		
			HVAC Systems -Chillers,pumps,cooling tower,hrw, AHUs , Fans,VFD,etc.		
			VRV System		
			ELECTRICAL FEEDERS		
			UPS/BATTERY		
			DG SET/HSD TANK/PUMPS		
			LIFTS/ESCALATOR		
			ENERGY METERS		
			VFD		
			PLUMBING PUMPS		
			OWC		
			TANK LEVELS		
			STP EQUIPMENTS		
			FIRE ALARM SYSTEM & FLOW SWITCHES		
			VAV Boxes - 250 nos.		
			Cooling tower water treatment system		
			Condensor auto tube cleaning system		
			3RD PARTY SCADA SYSTEM		
2	Work station along with furniture in existing BMS room	2	Supply, installation, testing and commissioning of Work station along with furniture in existing BMS room,as per specifications ,as directed ,complete , etc. MAKE: - HP / DELL / LENOVO / LG / SAMSUNG	1	Set
3		2.1	Client Workstation with Output to		
4		2.2	Processer type - Core i7		
5		2.3	Xeon 2.13 / 2.4 GHz Processor		
6		2.4	8 GB RAM		
7		2.5	Dual / four port NVIDIA display card		
8		2.6	1 TB HDD		
9		2.7	Built in DVD R/W drive		
10		2.8	Gigabit TCP/IP port		
11		2.9	Windows		
12		2.10	1 Nos. of 32" Network based LED monitor along with accessories for table mount		
13	CABLES	3			

14		3.1	Supply and laying Control Cables of following Armoured FRLS polyethylene insulated PVC sheathed overall the shielded twisted multistranded annealed tinned copper as per specifications ,as directed ,complete , etc., to match BMS as required at site.conductor cable CONTROL CABLE MAKE: - RR/FINOLEX/POLYCAB LV CABLES MAKE:- SYSTMIX/MOLEX/LEGRAND/D-LINK/CLIPSAL/AMP NET CONNECT		
15	FRLS Cable.	3.1.1	2C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured(0.9mmGI), FRLS Cable.	1100	RMT
16	FRLS Cable.	3.1.2	2 Core 1.5Sq.mm Communication Armoured(0.9mmGI), FRLS Cable.	11000	RMT
17	FRLS Cable.	3.1.3	4C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured(0.9mmGI), FRLS Cable	8500	RMT
18	FRLS Cable.	3.1.4	6C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured(0.9mmGI), FRLS Cable.	7500	RMT
19	FRLS Cable.	3.1.5	8C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured(0.9mmGI), FRLS Cable.	300	RMT
20	FRLS Cable.	3.1.6	2 Core 1.5Sq.mm RS485 Communication Armoured(0.9mmGI), FRLS Cable.	7500	RMT
21	DIRECT DIGITAL CONTROLLER(DDC),	6	DIRECT DIGITAL CONTROLLER(DDC),IoT & CLOUD Based as per specifications ,as directed ,complete , etc. MAKE:- JOHNSON CONTROL/ SIEMENS/ HONEYWLL/SCHNEIDER/L&T /PANASONIC/75 F SMART INNOVATION/MSD CONTROL//ENLITE		
22			DDC CONTROLLERS: Supply, Installation, Testing and Commissioning of IP Based DDC controllers. UL and BTL Automation stations / DDC Controller. The controllers shall be 32 bit microprocessor based standalone with real time clock. The DDC's shall be capable of peer to peer communication with other DDCs on the basis of master & slave topology. Also it should come up with lockable MS mounting cabinets duly powder coated connector strip, internal wiring and space to house controller & relays, connector strip current transformer, MCB, internal wiring. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point). DDCs requiring more than 2 additional Plug in type IO Module cards or expansion modules to suffix the requirement of required inputs/outputs are not acceptable. Use of AI to DI multiplexer is also not acceptable. DDCs shall be compact factory fitted with IO Points.as per specifications ,as directed ,complete , etc.		
23	HVAC SYSTEM /AIR HANDLING UNIT /FANS-Refer IO Summary	6.1	HVAC SYSTEM /AIR HANDLING UNIT /FANS-Refer IO Summary	1	Lot

24			Providing, installation, testing & commissioning of programmable controller (Imported) having latest processors RS 485/ BACNET/ MODBUS/RS232 compatible, controller shall support easy Graphical Programming and shall be able to store the programme in the controller. rather than sote it in P.C. including Lockable Mounting Cabinets/Enclosures duly powder coated,connector strip, internal wiring, Terminal blocks,MCPs as per specifications ,as directed ,complete , etc. (Contractor shall mention Qty. of controller on basis of IO Point)		
25	Electrical panels Feeders PANEL Refer IO Summary	6.2	Electrical panels Feeders PANEL Refer IO Summary	1	Lot
26			Providing, installation, testing & commissioning of programmable controller (Imported) easy Graphical Programming and shall be able to store the programme in the controller.rather than sote it in P.C. including Lockable Mounting Cabinets/Enclosures duly powder coated,connector strip, internal wiring, Terminal blocks,MCPs etc. as per specifications ,as directed ,complete , etc..(Contractor shall mention Qty. of controller on basis of IO Point)		
27	PHE System Refer IO Summary(Pumps/OWC/STP)	6.3	PHE System Refer IO Summary(Pumps/OWC/STP)	1	Lot
28			Providing, installation, testing & commissioning of programmable controller (Imported) having latest processors RS 485/ BACNET/ MODBUS/RS232,compatible, controller shall support easy Graphical Programming and shall be able to store the programme in the controller. rather than sote it in P.C. including Lockable Mounting Cabinets/Enclosures duly powder coated, connector strip, internal wiring, Terminal blocks,MCPs etc. as per specifications ,as directed ,complete , etc. (Contractor shall mention Qty. of controller on basisof IO Point)		
			Note:		
			Independent DDC should be provided for all AHUs DDC of AHUs should have Analog signal (4-20 / 2-10 V)/(0-20 / 0-10 V) for taking DPT value as required. BTU meters should be with all communications/converters etc. as required to complete the system. The items indicated above are probable and main items. The vendor to include all allied and implied items and required quantity for complete BMS system, as indicated in various areas of BOQ. 15 % spares to be added/kept for I/O's at each stage ,as per specifications ,as directed ,complete , etc		
29	INTEGRATION & ROUTER/GATEWAY	7.00	Supply, installation, testing, commissioning /INTEGRATION & ROUTER/GATEWAY ,as per specifications ,as directed ,complete , etc MAKE:- JOHNSON CONTROL/ SIEMENS/ HONEYWLL/ SCHNEIDER/L&T	1	Lot

			/PANASONIC/75 F SMART INNOVATION/MSD CONTROL//ENLITE		
30			1 NO. CHILLER PLANT MANAGER		
31			53 NOS. VRV ODU AND 78 NOS. VRV IDU UNITS		
32			3 NOS. UPS		
33			4 NOS. DG SETS		
34			16 Nos. Lifts/Escalators		
35			140 NOS. KWH Energy meters with RS-485 Ports(All meters in the system must be capable of reporting hourly, daily, monthly, and annual energy use.		
36			FIRE ALARM PANELS AND CM OF FLOW SWITCHES		
37			VAV Boxes - 250 nos.		
38			Cooling tower water treatment system		
39			Condensor auto tube cleaning system		
40			3RD Party SCADA System		
41			<p>The 3rd party Integration unit shall provide the interface between Ethernet LAN and the 3rd party field control devices or any other devices which need to be integrated. These shall also provide supervisory capability of functions over the devices connected to it. The purpose of using these units should be limited to integrate devices only, not for any DDC interface with GUI, provided by others. The Unit must provide the following hardware features as a minimum:</p> <p>a. Two No. on Board RS-485 port b. Provision to include / add additional communication card c. Two onboard Ethernet port d. 4GB memory</p> <p>The Integration unit shall provide flexibility of adding communication ports (RS485) by adding communication cards, minimum one slot, when required rather than adding additional unit itself. The Integration unit should have inbuilt memory for program storage. The Unit must communicate over TCP/IP with communication speed of 10/100MBPS.</p> <p>The Integration unit should be capable of handling multiple protocol simultaneously and should not be restricted to single protocol such as Bacnet, Modbus, M-Bus, KNX, SNMP.All integrators should be mandatorily BTL listed.</p>		
42	FILED EQUIPMENTS	8	FILED EQUIPMENTS		
43			Supply, Installation, testing & Commissioning of following Field Equipments ,as per specifications ,as directed ,complete , etc MAKE:- JOHNSON CONTROL/ SIEMENS/ HONEYWLL/SCHNEIDER/L&T /PANASONIC/75 F SMART INNOVATION/MSD CONTROL//ENLITE		
44		8.1	WATER SIDE TEMPERATURE SENSOR Immersion Temperature Sensor with SS thermowell (Pipe mounted,water side)	32	Nos.
45		8.2	OUT DOOR DATA - TEMP/HUMIDITY SENSOR	1	Nos.

46		8.3	BTU Meter (600 US GPM CAPACITY)	2	Nos.
47		8.4	BTU Meter (250 US GPM CAPACITY)	1	Nos.
48		8.5	DP SWITCH (WATER SIDE)	18	Nos
49		8.6	WATER SIDE DP SENSOR/TRANSMITTER	4	Nos.
50		8.7	MULTI LEVEL SENSOR FOR WATER TANK-FLOAT TYPE (3 LEVELS-HIGH/MEDIUM/LOW)	10	Nos
51		8.8	DP Switch (Duct mounted type) For AHU and HRW	67	Nos
52		8.9	AIR SIDE DP SWITCH FOR PRE FILTERTER	85	Nos
53		8.10	AIR SIDE DP SWITCH FOR MERV 8 FILTER	12	Nos
54		8.11	AIR SIDE DP SWITCH FOR COMBINE MERV 8 & 13 FILTER	55	Nos
55		8.12	Duct Temperature Sensor (SUPPLY SIDE TO CONTROL PICV VALVE)	43	Nos.
56		8.13	Duct Temperature /RH Sensor IN HRW - MONITORING	44	Nos.
57		8.14	CO2 SENSER FOR HRW VFD CONTROL AND MONITORING	61	Nos
58		8.15	FLAME PROOF LEVEL SENSER	9	Nos
59		8.16	FLAME PROOF LIQUID DP SWITCH	6	Nos
60	10/100/1000 Base-T Switch	10	Supply, Installation, Testing & Commissioning of 10/100/1000 Base-T Switch with IP multicast snooping and data-driven IGMP support and with 1000 baseT FO uplink ports and all related termination accessories as per vendor specific System requirement,as per specifications ,as directed ,complete , etc.(Pigtail,Sleeve, Patch Chords, termination etc.) MAKE :- NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO		
61	12 Port Switch	10.2	12 Port Switch	12	Nos

FAS SYSTEM					
1.1		FIRE ALARM SYSTEM TO BE INTEGRATED WITH IBMS SYSTEM			
1.1.1	MCGM : R2-ME-15-32-e	Intelligent Heat Detector		250.00	Each
1.1.2	MCGM : R2-ME-15-32-d	Intelligent Photoelectric Smoke Detector		935.00	Each
1.1.3	MR-LV-04	Addressable Photo electric ABOVE CELING Smoke Detector.		805.00	Each
1.1.4	MR-LV-09	Addressable Intelligent Multi Sensor Detector Make: NOTIFIER/HONEYWELL/MORLEY/SIEMENS/EDWARD/L&T		210.00	Each
1.1.5		Addressable Beam Detector		10.00	Each
1.1.6	MCGM : R2-ME-15-32-h	Addressable Manual Call Point		100.00	Each
1.1.7	MR-LV-05	LPG Gas Detector		5.00	Each
1.1.8	MCGM : R2-ME-15-32-j	Remote response indicator		805.00	Each
1.1.9	MCGM : R2-ME-15-32-1	CONTROL RELAY for GAS DETECTOR		5.00	Each
1.1.10	MCGM : R2-ME-15-32-k	Fault Isolator Module		140.00	Each

1.1.1 1	MCGM : R2-ME-15-32-i	HOOTER	100.00	Each
1.1.1 2	MCGM : R2-ME-15-32-1	Addressable Control Module for HOOTER	100.00	Each
1.1.1 3	MCGM : R2-ME-15-32-1	Addressable Relay Module for PA system integration.	15.00	Each
1.1.1 4	MCGM : R2-ME-15-32-1	Addressable Relay Module for Lift integration.	18.00	Each
1.1.1 5	MR-LV-06	MAIN FIRE PANEL : Supply, Installation, testing & Commissioning of Microprocessor based 12-loop panel ,	3.00	Each
1.1.1 6	MR-LV-07	Repeater Fire Panel : Supply, Installation, testing & Commissioning of Microprocessor based 12-loop panel ,	3.00	Each
1.1.1 7	MR-LV-08	Addressable Monitor Module	200.00	Each
1.1.1 8	MR-LV-10	CM for Flow detector/flowswitch(on Floor Sprinkler branches)	50.00	Each
		TOTAL OF FIRE ALARM SYSTEM :-		
1.2		FIRE FIGHTER TELEPHONE SYSTEM:-		
1.2.2	MCGM : R2-ME-15-32-1	Addressable Control Module for fire fighter telephone jack.	75.00	Each
1.2.3	MR-LV-10	Fire Fighter's Telephone Handset for two way communication between Remote Fire Fighter & Fire Command Center	14.00	Each

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.



शहर अभियंता

पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२१ /प्र.क्र. ०३/२०२३(५)/२०२३

दि. ९ / ८ /२०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता
२. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंर्गत सजावट व इतर अनुषंगीक कामे करणे. (RODENT REPELLENT)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO	ITEM	REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY/GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
		1.1	RODENT REPELLENT SYSTEM,MAKE:- JHONSON CONTROL/R SCAT /ANCHOR		
1	Main Rodent Panel	1.1.1	Supply, installation, testing & commissioning of Main Rodent Panel,suitable to connect 20 Satellites. MAKE:- JHONSON CONTROL/R SCAT /ANCHOR	60	Nos
2	Satellite Stations / Transducers	1.1.2	Supply, installation, testing & commissioning of Satellite Stations / Transducers covering 150sqft afc,300sqft bfc & 150sqft ffc. MAKE:- JHONSON CONTROL/R SCAT /ANCHOR	381	Nos
3	PVC CONDUIT	1.1.3	Supply & installation of PVC - 20 mm Medium Grade Conduits with following Cables, fittings ISI Marked: MAKE:-PRESISION/ANCHOR/POLYCAB	7010	Mtr
4	Cable for communication	1.1.4	Supply & installation of Cable for communication flexible wiring between panel to transducers. MAKE:RR/FINOLEX/POLYCAB	8763	Mtr

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.
प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता

पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/ २३२१ /प्र.क्र. ०३ / २०२३(६)/२०२३

दि. ९/८/२०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता
२. माहिती फलक करीता

पनवेल महानगरपालिका
जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतंर्गत सजावट व इतर अनुषंगीक कामे करणे. (LV System)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
FAS					
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
	FIRE ALARM SYSTEM	1.1	FIRE ALARM SYSTEM:- MAKE:HONEYWELL/GLOBAL/SIEMENS/ EDWARD/L&T/PANASONIC (conforming to IS 2189: 2008, 11360_1985_Reff 2020 EN 54 or UL Approved with 3 years equipment replacement warranty)		
1	Addressable multi sensor heat detector	1.1.5	Supplying, erecting testing and commissioning of Addressable multi sensor heat detector (Below ceiling and for the Electrical/LV duct) with smoke and heat combination (RoR + fix temperature) with base on back box, necessary connections complete as per specification no. FF-FAS/HD. Make: NOTIFIER/HONEYWELL/GLOBAL/MORLEY/SIEMENS/ EDWARD/L&T/PANASONIC	1145	Each
2	LPG Gas Detrctor	1.1.6	Supplying, erecting and testing LPG Gas Detrctor with necessary interface module complete on box. Makes: HONEYWELL/GLOBAL/SIEMENS/ EDWARD/L&T/PANASONIC	5	Each
3	Addressable control Relay module FOR PA SYSTEM	1.1.14	Supply, Installation, testing & commissioning of Addressable control Relay module with Operating temperature -10 to +50 deg cel. Output Relay contact rating 2A @ 30 VDC. Required accessories along with junction box, glands and terminators (For AC trip off, Access trip off, PA system, sprinkler flow switch, lift interface, sounder, fire fighter & telephone jack). (Addressable Control Module for PA SYSTEM) MAKES: -HONEYWELL/GLOBAL/SIEMENS/ EDWARD/L&T/PANASONIC	15	Each

4	MAIN FIRE PANEL	1.1.18	<p>MAIN FIRE PANEL : Supply, Installation, testing & Commissioning of Microprocessor based 12-loop panel , True Peer-to-Peer Networkable Addressable Integrated Fire Alarm Control Panel with minimum 600 characters LCD display, 10,000 event plus 1000 alarm log history events, The graphic backlit LCD display. The panel should be equipped with sufficient numbers of loops considering 20% spare capacity in each loop. The connectivity of nos. of total detectors and devices in each loop shall be as per vender design. Configuration software freely downloadable.Modbus, Fibre optic,RS422 ports available. The fire alarm panel shall inetgrated digital voice alarm controller & fire fighter's telephone system. The panel shall have inbuilt call station with sufficient number zone selection keys.The panel shall work in degrade mode in case of CPU failure. Four access levels, flash EPROM, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and 30 mins in alarm condition. Note: The fire alarm panel shall be servicable by any system integrator. interfacing with third party equipment via a MODBUS/ OPC/ L-ON interface etc. conforming to IS 15908:2021, IS 2189:2008, EN 54 & VDS / FM/ UL 864 (10th edition) with 3 years replacement warranty</p> <p>MAKES: - HONEYWELL/GLOBAL/SIEMENS/ EDWARD/L&T/PANASONIC</p>	2	Each
5	repeater panel	1.1.19	<p>Supplying, installing, testing and commissioning of repeater panel with suitable battery backup of a minimum of 24 hours in normal condition and 30 min in alarm condition, Suffiecient backlit alphanumeric LCD display with inbuilt buzzer to indicate fault/fire alarm, manual control keys for silence/mute and to reset the FACP from the repeater station. Panel conforming to EN 54 or UL approved with 3 years equipment replacement warranty</p> <p>MAKE: - NOTIFIER/HONEYWELL/GLOBAL/MORLEY/SIEMENS/ EDWARD/L&T/PANASONIC</p>	2	Each
6	BMS Integration with BACnet / Modbus protocol	1.1.20	<p>Supply, installation, testing & commissioning of BMS Integration with BACnet / Modbus protocol as per technical specification for monitoring & Control. Vendor to organize APIs/SDKs for custom integrations to other systems.</p> <p>MAKES: -NOTIFIER / CERBERUS / BOSCH</p>	1	Each
	FIRE FIGHTER TELEPHON E SYSTEM:-	1.2	<p>FIRE FIGHTER TELEPHONE SYSTEM:-MAKE: -NOTIFIER /HONEYWELL /GLOBAL/MORLEY /SIEMENS /EDWARD/L&T/PANASONIC</p>		
7	Addressable Fire Fighter's Telephone Jack	1.2.1	<p>Supply, Installation, testing & Commissioning of Addressable Fire Fighter's Telephone Jack with suitable interface module for two way communication between Remote Fire Fighter & Fire Command Center.along with addressable control module</p> <p>MAKE: -NOTIFIER /HONEYWELL /GLOBAL/MORLEY /SIEMENS /EDWARD/L&T/PANASONIC</p>	80	Each

8	Fire Fighter's Telephone Handset	1.2.2	Supply, Installation, testing & Commissioning of Fire Fighter's Telephone Handset for two way communication between Remote Fire Fighter & Fire Command Center. The suitable housing shall be provided to keep handset. MAKE:- NOTIFIER/HONEYWELL/GLOBAL/MORLEY/SIEMENS /EDWARD/L&T/PANASONIC	20	Each
9	FRLS Copper cable for telephone jack	1.2.3	Supply and installation of 2 C X 1.5 Sq mm multi stranded twisted pair amoured FRLS Copper cable. for telephone jack (ADDRESEBLE). MAKE:- FINOLEX/BELDON/POLYPLAST/POLYCAB	800	METER

PA

			NOTE :- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
		1.3	PUBLIC ADDRESS SYSTEM:-With 3 years equipment replacement warranty		
1	6W Ceiling Recessed Speaker	1.3.1	Supply, Installation, testing & Commissioning of 6W Ceiling Recessed Speaker with max SPL @1M/1W 88dB . Frequency response of 125Hz-16KHz. The speaker must have a metal grill & tappings at 6W/3W/1.5W. White color speaker with good aesthetics. MAKE:- BOSCH/HONEYWELL/ATIES/AHUJA	775	Each
2	Booster amplifier	1.3.3	Supply and installation of Booster amplifier 480W with all accessories. MAKE:- BOSCH/HONEYWELL/ATIES/AHUJA	12	Each
3	16 channel zone control panel/ Zone selector	1.3.4	Supply & installation of 16 channel zone control panel/ Zone selector to control the output of the amplifier. MAKE:- BOSCH/HONEYWELL/ATIES/AHUJA	10	Each
4	Dynamic Vocal & Speech Microphone.	1.3.5	Supply & installation of Unidirectional Dynamic Vocal & Speech Microphone. MAKE:- BOSCH/HONEYWELL/ATIES/AHUJA	6	Each

CCTV

			NOTE :- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
			CCTV SYSTEM :-MAKE : - HONEYWELL / SONY /BOSCH/ PANASONIC (with 3 years equipment replacement warranty)		
		1.1	CAMERAS :-		
1	IP DOME CAMERA	1.1.1	Supply, Installation,Testing & Commissioning of IP DOME CAMERA with 5 MP IP Dome fixed varifocal IR, Water and dust resistant (IP67) and vandal-resistant (IK10),1/4" PROGRESSIVE SCAN CCD/CMOS sensor, HD 1280 X 720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 2.7 to 8 mm,4X DIGITAL ZOOM, fixed focal/varifocal auto iris lens, SD –Support Max 512GB, WDR,colour 1 lux,b/w 0.5 lux (at 30 IRE),audio built in microphone,IR Range 2.7 to 13.5 mm: up to 40 m,7 to 35 mm: up to 50	350	EACH

			mcompression,colour,brightness,sharpness,contrast,white balance,explosure control,backlight compensation,having HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP,UDP,RTCP,DHCP,UPnP,QOs PROTOCOL, password protection, IP address filtering,user access log security,operating conditions of 0 to 50c, tamper resistant casing for indoor environment. MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC		
2	IP Fixed Box/ Bullet camera	1.1.2	Supply, Installation,Testing & Commissioning of IP Fixed Box/ Bullet camera with 5 MP IP Bullet fixed IR, Water and dust resistant (IP67) and vandal-resistant (IK10),1/4" PROGRESSIVE SCAN CCD/CMOS sensor,HD 1280X720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 2.7 to 8 mm,4X DIGITAL ZOOM, fixed focal/varifocal auto iris lens, SD –Support Max 512GB, WDR,colour 1 lux,b/w 0.5 lux (at 30 IRE),IR Range 2.7 to 13.5 mm: up to 60 m, 7 to 35 mm: up to 80 m,audio built in microphone, compression, colour, brightness, sharpness, contrast,white balance,explosure control,backlight compensation,having HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP,UDP,RTCP,DHCP,UPnP,QOs PROTOCOL, password protection, IP address filtering,user access log security,operating conditions of 0 to 50c,Outdoor cameras (in open sky) to include IP66 Casing. MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC	20	EACH
3	PTZ Cameras	1.1.3	Supply, Installation,Testing & Commissioning of PTZ Cameras with 4 MP IP Bullet fixed IR, 1/4" PROGRESSIVE SCAN CCD/CMOS sensor,HD 1280X720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 4X DIGITAL ZOOM,Zoom Speed Approx. 4.8 s,10Xoptical zoom, fixed focal/varifocal auto iris lens,Focal Length 5.9 mm to 188.8 mm,colour 0.5 lux,b/w 0.1 lux (at 30 IRE), having panning range 360 degrees,tilting range from 0 degree to 90 degree, audio built in microphone, compression, colour, brightness, sharpness,contrast,white balance,explosure control,backlight compensation,auto tracking, pre-set tour setting, having HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP,UDP,RTCP,DHCP,UPnP,QOs PROTOCOL, password protection, IP address filtering,user access log security,operating conditions of 0 to 50c, tamper resistant Casing for indoor environment. MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC	12	EACH
4	Hot dipped galvanised, round shape steel pole for installation of PTZ Camera	1.1.4	Supply, Installation, Testing & commissioning of Hot dipped galvanised, round shape steel pole for installation of PTZ Camera and Outdoor Dome Camera, length 6 meters, diameter 4 inches (Nominal bore) Medium class, ISIS marked to IS:1239 with latest amdts and with atleast 1 Meter below ground with grouting. MAKE:-TATA STEEL / JINDAL / BAJAJ / EQUI.	12	EACH

		1.2	RECORDER AND WIRELESS SYSTEM :-		
5	Point to Point Wireless Radios along with Mounting Brackets & PoE Injectors	1.2.1	Supply, Installation, Testing & Commissioning of Point to Point Wireless Radios along with Mounting Brackets & PoE Injectors (LIFT) MAKE: -HONEYWELL / SONY / BOSCH/TP LINK/PANASONIC	12	EACH
6	Adapters & Spike guard	1.2.2	Supply, Installation, Testing & Commissioning of Adapters & Spike guard for powering up the TX RX unit (POE INJECTOR) ISI APPROVED MAKE:-HONEYWELL / SONY/ BOSCH/ANCHOR	12	EACH
7	modular 64 channel 1080P NVR,	1.2.3	Design, Supply, testing, installation and commissioning of modular 64 channel 1080P NVR , Recording: 1920X1080P, 15 FPS, 30 days recording, 24 hours/day; Real time monitoring with 25 FPS. Hard disc : 8 SATA III Ports, Each 6TB, up to 48TB, 1 eSATA port, Disk array: Support RAID 0/1/5/6/10, Two no's of RJ -45 10/100/1000 Mbps self adaptive Ethernet interface, RS 232, RS 485, keyboard interfaces, VGA/HDMI compatible, 2nos front USB 2.0 & 1 no at rear USB 2.0 compatible & 16 TB hard disc and as per storage configuration contractor shall consider the separate hard discs. MAKE : - HONEYWELL / SONY / BOSCH / PANASONIC	9	EACH
8	Servillance harddisk 6TB Storage	1.2.4	Supply, Installation, Testing & Commissioning of Servillance harddisk 6TB Storage (HDD) MAKE:- SEAGATE / WD	30	EACH
9	NAS back up storage device	1.2.5	Supply, Installation, Testing & Commissioning of Additional NAS back up storage device ,220 TB to keep 30 days backup recording. MAKE : - HONEYWELL / SONY / BOSCH / PANASONIC	1	Ecah
10	42inches LED monitor, Full HD Resolution	1.2.6	Supply, Installation, Testing & commissioning of 42inches LED monitor, Full HD Resolution , Backlight LED, Brightness : 400 NITS min., Contrast : 1200 : 1 or better., Power supply : 230 ±10%, 50 Hz. MAKE:- LG/SAMSUNG /ONIDA /SONY	15	EACH
11	Video Splitter	1.2.10	Supply, Installation, Testing & Commissioning of 1IN/4OUT Video Splitter for additional viewing. MAKE:- MX / LCOM / TIZUM	5	EACH
		1.4	FIBER OPTIC CABLE & SYSTEM :-		
12	Single Mode Fiber Optic Connector	1.4.3	Supply, Installation, Testing & Commissioning of Single Mode Fiber Optic Connector MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	20	EACH
13	Single Mode Fiber Optic Patch Chord	1.4.4	Supply, Installation, Testing & Commissioning of Single Mode Fiber Optic Patch Chord MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	20	EACH
14	Light Interface Unit (LIU)	1.4.5	Supply, Installation, Testing & Commissioning of Light Interface Unit (LIU) MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	5	EACH

		1.5	POE SWITCH & RACKS :-		
15	12 port Fiber optic patch panel	1.5.2	Supplying and fixing 12 port Fiber optic patch panel with tool-less keystone jacks in provided U Rack complete as per specification MAKES: - EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	EACH
16	12-ports fiber optic switches.	1.5.7	Supplying, fixing, and configuring 12-ports fiber optic switches. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	EACH
17	4-ports managed gigabit switches	1.5.10	Supplying, fixing, and configuring 4-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	9	EACH
18	12-ports managed gigabit switches	1.5.11	Supplying, fixing, and configuring 12-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	2	EACH
19	16-ports managed gigabit switches	1.5.12	Supplying, fixing, and configuring 16-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	EACH
20	32 U floor MOVABLE SERVER Rack	1.5.21	Supplying and fixing 32 U floor MOVABLE SERVER Rack (Dimension-DxWxH - 800X1000x1620 mm) MAKES: - EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL	2	EACH
21	42 U floor MOVABLE SERVER Rack	1.5.22	Supplying and fixing 42 U floor MOVABLE SERVER Rack (Dimension-DxW - 800x1000 x2070mm) as per specification No. WG-NAS/RAK MAKES: - EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL	2	EACH

CCTV WITH MIC					
			NOTE :- ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
			CCTV SYSTEM :-MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC		
		1.1	CAMERAS :-		
1	IP DOME CAMERA WITH INBUILD MIC	1.1.1	Supply, Installation,Testing & Commissioning of IP DOME CAMERA WITH INBUILD MIC with 5 MP IP Dome fixed varifocal IR, 1/4" PROGRESSIVE SCAN CCD/CMOS sensor, HD 1280 X 720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 2.7 to 8 mm,4X DIGITAL ZOOM, fixed focal/varifocal auto iris lens, SD – Support Max 512GB, WDR,colour 1 lux,b/w 0.5 lux (at 30 IRE),audio built in microphone, compression, colour , brightness, sharpness,contrast,white balance,exposure control,backlight compensation,having HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP,UDP,RTCP,DHCP,UPnP,QOs PROTOCOL, password protection, IP address filtering,user access log security,operating conditions of 0 to 50c, tamper resistant casing for indoor environment. MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC	15	EACH
		1.2	RECORDER AND WIRELESS SYSTEM :-		
2	NVR	1.2.1	Design, Supply, testing, installation and commissioning of modular 4 channel 1080P NVR , Recording: 1920X1080P, 15 FPS, 30 days recording , 24 hours/day; Real time monitoring with 25 FPS. Hard disc : 8 SATA III Ports, 1 eSATA port, Disk array: Support RAID 0/1/5/6/10, Two no's of RJ -45 10/100/1000 Mbps self adaptive Ethernet interface, RS 232, RS 485, keyboard interfaces, VGA/HDMI compatible, 2nos front USB 2.0 & 1 no at rear USB 2.0 compatible & required capacity hard disc and as per storage configuration contractor shall consider the separate hard discs. MAKE : -MAKE : - HONEYWELL / SONY / BOSCH/PANASONIC/ESSL	15	EACH
3	4TB Storage (HDD)	1.2.2	Supply, Installation,Testing & Commissioning of 4TB Storage (HDD) MAKE:- SEAGATE / WD	15	EACH
4	NAS back up storage device	1.2.3	Supply, Installation,Testing & Commissioning of Additional NAS back up storage device 75 TB to keep 30 days backup recording.MAKE : - HONEYWELL / SONY / BOSCH / PANASONIC	1	EACH
5	HDMI extender	1.2.4	Supplying & erecting HDMI extender over RJ45 Ethernet Cable Cat5e/6/7 10M 200ft complete. MAKE:-MX / LCOM / TIZUM	15	EACH

ACCESS BOQ					
			NOTE: - ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
	ACCESS CONTROL SYSTEM		ACCESS CONTROL SYSTEM		
1	2 Door Controller	1.1	Supply, Installation, Testing & commissioning of 2 Door Controller. MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH	50	NOS.
2	OSDP Multi Card Reader	1.2	Supply, Installation, Testing & commissioning of OSDP Multi Card Reader MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH	50	NOS.
3	Emlock with feedback - 600 LBS	1.3	Supply, Installation, Testing & commissioning of Emlock with feedback - 600 LBS MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	50	NOS.
4	12VDC Buzzer for Door open alarm	1.4	Supply, Installation, Testing & commissioning of 12VDC Buzzer for Door open alarm MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	50	NOS.
5	2 Exit Switch	1.5	Supply, Installation, Testing & Commissioning of 2 Exit Switch MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	50	NOS.
6	Manager Access Control & Time & Attendance Software	1.6	Supply , Installation, Testing & commissioning of Manager Access Control & Time & Attendance Software MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	1	NOS.
7	Wired Door Contact sensor	1.7	Supply, Installation, Testing & commissioning of Wired Door Contact sensor MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	50	NOS.
	BIOMETRIC ACCESS CONTROL SYSTEM		BIOMETRIC ACCESS CONTROL SYSTEM		
8	Palm and Face Recognition Performance Reader	2.1	Supply , Installation, Testing & commissioning of Unrivaled Palm and Face Recognition Performance Reader, OSDP, AES-128 encryption standards, IP 66, POE Power enabled, Multi card Support, metal enclosure with a tempered glass panel MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	30	NOS.
9	Emlock with feedback - 600 LBS	2.2	Supply, Installation, Testing & commissioning of Emlock with feedback - 600 LBS MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	30	NOS.
10	12VDC Buzzer for Door open	2.3	Supply, Installation, Testing & commissioning of 12VDC Buzzer for Door open alarm MAKE:-	30	NOS.


	alarm		ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION		
11	2 Exit Switch	2.4	Supply, Installation, Testing & Commissioning of 2 Exit Switch MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	30	NOS.
12	Manager Access Control & Time & Attendance Software	2.5	Supply , Installation, Testing & commissioning of Manager Access Control & Time & Attendance Software MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	1	Lot
13	Wired Door Contact sensor	2.6	Supply, Installation, Testing & commissioning of Wired Door Contact sensor MAKE:- ARGUS/ESS/HONEYWELL/SIEMENS/HID/O RYGGITECH/HIKVISION	30	NOS.
	ACCESS CONTROL SYSTEM		ACCESS CONTROL SYSTEM		
14	12-ports managed gigabit switches	3.1	Supplying, fixing, and configuring 12-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	2	EACH
15	4-ports managed gigabit switches	3.3	Supplying, fixing, and configuring 4-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	18	NOS
16	12 port Fiber optic patch panel	3.7	Supplying and fixing 12 port Fiber optic patch panel with tool-less keystone jacks in provided U Rack complete as per specification MAKES: - EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	EACH
17	12-ports fiber optic switches.	3.8	Supplying, fixing, and configuring 12-ports fiber optic switches. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	EACH
18	C-windows 11 os, 1 TB HDD, 64bit,16 GB ram, 2 nos USB keyboard	4.1	Supply, Installation, Testing & commissioning of PC-windows 11 os, 1 TB HDD, 64bit,16 GB ram, 2 nos USB keyboard	1	NOS
19	32 inch LED monitor with wall mount bracket	4.2	Supply, Installation, Testing & commissioning of 32 inch LED monitor with wall mount bracket	1	Each
20	access card	4.3	Supply, Installation, Testing & commissioning of access card	100	Each

WIFI ACCESS POINT					
			NOTE: - ALL ITEM RATES SHOULD CONSIST OF THREE YEAR DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
			WIFI ACCESS POINT		
1	WIFI ACCESS POINT	1.1	Supply, Installation, Testing & commissioning of WIFI ACCESS POINT MAKES:- Tp-Link/NetGear/CISCO/ASUS/Zyxel	180	NOS.
2	4-ports managed gigabit switches	1.5	Supplying, fixing, and configuring 4-ports managed gigabit switches layer-2, 10/100/1000 base-T PoE smart switch plus 2 SFP (Fiber optic Uplink Port, enable the switch to connect to all fiber in cables) only complete. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	7	NOS.
3	12 port Fiber optic patch panel	1.6	Supplying and fixing 12 port Fiber optic patch panel with tool-less keystone jacks in provided U Rack complete as per specification MAKES: - EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	NOS.
4	12-ports fiber optic switches.	1.7	Supplying, fixing, and configuring 12-ports fiber optic switches. Make:- EMS / VALRACK / DIGISOL / CISCO / LEGRAND / RITTAL/D LINK	1	NOS.

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २९/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


 शहर अभियंता
 पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२९ /प्र.क्र. ०३/२०२३(७)/२०२३

दि. ९/८/२०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे. (PLUMBING)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	BOQ ITEM REF.	ITEM DESCRIPTION	QTY	UNIT
TOILET INTERNAL					
1	INTERNAL WATER SUPPLY	2.8	Supplying and erecting midget type 5.0 litres instant type water heater of rustproof & shockproof ABS plastic body, high grade SS inner tank & 4.5-5.5 kW heating element with corrosion & hard water protection, with minimum 3 safety protections (i.e. thermostat & thermal cut-out, function valve) complete with 6.5 bar pressure withstanding capacity 230/250V, 50Hz, A.C. supply with inlet and outlet, with 3 core PVC flexible copper wire leads duly tested and marking sr. no. and date of erection complete. Make :-Racold ,Crompton,Bajaj,Havells		
2	INTERNAL WATER SUPPLY	3.8	Providing and fixing in position tested CPVC pipes conforming to ASTM F441 CPVC Schedule 80 with all fittings like bends, tees, reducers, elbows, unions et conforming to ASTM F438 Schedule 80 including supporting on walls complete including scaffolding and hydraulic testing after laying of pipes as specified and including making holes in the walls or floors as required and redoing the same etc.complete as directed by Engineer in charge. Make - Ashirwad/ Supreme/ Astral		
		A	65 mm nominal bore	4.00	RMT
		B	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	4.00	RMT
3	PVC NAHANI TRAP WITH SS GRATING	4.6	Providing and fixing 10cm PVC Nahani Trap including S.S. grating bend and piece of C.I. pipe upto the outside face of the wall complete. Make - Ashirwad/ Supreme/ Astral	180.00	

4	INTERNAL SOIL/ WASTE	4.7	Providing and fixing Multi floor trap of 110x110mm with jali 50 mm minimum seal suitable for kitchen all complete, as directed by Engineer in charge. Make - Ashirwad/ Supreme/ Astral	50.00	Number
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INTERNAL BUILDING					
1	BLDG INTERNAL WATER SUPPLY		Providing and fixing in position tested uPVC easy fit pipes conforming to ASTM D-1785 Schedule 80 with all fittings like bends, tees, reducers, elbows, unions Schedule 80 including supporting on walls complete including scaffolding and hydraulic testing after laying of pipes as specified and including making holes in the walls or floors as required and redoing the same (For pump outlet to OH Tank, Terrace looping, Downcomer of domestic & flushing water supply pipes) etc.complete as directed by Engineer in charge. Make:- Ashirvad/Prince / Supreme/ Astral		
		1.1.7	65 mm nominal bore	58.00	Running Metre
2	Gun Metal Valve	1.2	Providing and fixing Supplying and erecting gun metal gate valve complete with PN16 pressure rating, of approved make with material and labour etc all complete as per drawings, specifications complete as directed by Engineer in charge. Make:- Leader /Sant/Zoloto		
		1.2.3	32mm	58	Number
		1.2.4	40mm	14	Number
3	Pressure Reducing Valve	1.3	Providing and fixing Pressure Reducing valves PN 16 of approved make as indicated including provision of 3 nos. of ball valves/Butterfly valves, for bypass arrangement etc. complete as directed by engineer-in-charge. Contractor to set pressure as per instructions from consultant during execution. (1 no. PRV + 3 Nos. Ball valve/Butterfly valve) Make:- Honywell/ Leader/Zoloto		
		1.3.1	25 mm dia	2.00	Number
		1.3.2	32 mm dia	13.00	Number
		1.3.3	40 mm dia	15.00	Number
		1.3.4	50 mm dia	6.00	Number
		1.3.5	65 mm dia	4.00	Number
4	Air Release Cock	1.4	Supplying and erecting gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV. Make:- Honywell/ Leader/Zoloto		
		1.4.1	15 mm dia.	4	Number

5	Solenoid Valve	1.5	Providing and fixing spring return motorised Solenoid valve PN 10 suitable for 240 Volts , with suitable motorised rotor 3 nos of float type sensors and control panel , to shut and close valve when water level is low / high in water tanks complete as directed by Engineer in charge. Make- Leader /Sant / Zooloto		
		1.5.1	25 mm dia	2	Each
		1.5.2	50 mm dia	2	Each
		1.5.3	80 mm dia	2	Each
6	GI Puddle Flanges	1.6	Supplying & fixing in position galvanised iron puddle flanges of approx. 60 cm length with flange on one end (Table E) and welded to mild steel plate (8mm thick) in the centre etc. complete as directed by engineer-in-charge. Make - Tata / Zenith / Jindal		
		1.6.1	250 mm dia Both Sides Flange with 60cm length	3.00	Number
		1.6.2	200 mm dia One Side Flange with 60cm length	3.00	Number
		1.6.3	150 mm dia Both Flange with 60cm length	11.00	Number
		1.6.4	150 mm dia single Side Flange with 60cm length	1.00	Number
		1.6.5	100 mm dia Both Side Flange with 60cm length	8.00	Number
		1.6.6	100 mm dia Single Side Flange with 60cm length	1.00	Number
		1.6.7	80 mm dia Double Side Flange with 60cm length	1.00	Number
		1.6.8	80 mm dia Single Side Flange with 60cm length	6.00	Number
		1.6.9	80 mm dia No Flange/Plain Ends with 60cm length	5.00	Number
		1.6.10	50 mm dia No Flange/Plain Ends with 60cm length	1.00	Number
7	PVC Vent	1.7	Providing and fixing PVC Vents of following sizes in O.H.T./ U.G.R. over delivery pipes along with provision of inverted U bend & mosquito proof jalli at the end etc. complete as directed by engineer-in-charge. Make - Ashirvad/ Supreme/ Astral		
		1.7.1	50mm dia	10	Number
8	BLDG INTERNAL DRAINAG, RAIN WATER DRAIN	1.8	Providing, fixing and testing Silent fit UPVC pressure pipes for soil waste and Rain pipes (IS:4985-81) 10 KG/CM2 including all fittings at 6-10KG/CM2 pressure rating such as bends, junctions, inspection doors, offsets, cowls, access pieces/plugs, brass floor cleanouts etc. clamps/ structural steel supports,haunching etc. as required/directed at site, jointing with SOLVENT joints including cutting holes in walls and making good the same. Silentfit Low Noise SWR Piping Systems are three layered pipes of which, outer and inner layers are made up of UPVC material and intermediate layer of specially formulated PVC material which serves as a noise insulator, providing silent operation when water flows through the system, etc. complete as directed by Engineer in charge. Make - Ashirvad/ Supreme/ Astral		

		1.8.1	75mm nominal bore.	498.00	Running Metre
		1.8.2	100mm nominal bore.	210.00	Running Metre
		1.8.3	160mm nominal bore.	2085.00	Running Metre
		1.8.4	200mm nominal bore.	322.00	Running Metre
		1.8.5	250mm nominal bore.	79.00	Running Metre
9	Double Angle Bracket	1.9	Providing & fixing M.S. fabricated double angle bracket of required size in 50 x 50 x 5 mm of required length with all necessary fabrication & fixing the same and grouting in wall / R.C.C wall using anchor fasteners of required size and clamping of pipe with G.I. 'U' clamp with nut & bolts including applying primer & 2 coats of enamel paint of approved color to brackets etc. complete as per directions of engineer-in-charge. Make - Tata / Zenith / Jindal	250	Kg
10	PVC Cowl	1.10	Supply,Providing and fixing PVC Cowl for the following pipes including making all solvent joints with material & labour etc. all complete as per direction of the engineer-in-charge. Make - Ashirvad/ Supreme/ Astral		
		1.10.1	75 mm dia	4	EACH
		1.10.2	110 mm dia	6	EACH
		1.10.3	160 mm dia	8	EACH
11	SS Clean Out Plugs	1.11	Providing and fixing SS Clean out plugs of following sizes for maintenance and cleaning purpose etc. complete as per directions of engineer-in-charge. Make - Ashirvad/ Supreme/ Astral		
		1.11.1	150 mm dia.	25	Nos
12	Grease Trap for Pantry Area	1.12	Providing and fixing Oil Grease trap seperator LW 400, NS 1.5, Class II, B with above ground lifting station and minilift etc.complete as per direction of engineer-in-charge.Make-Kessel /Aco	15	Set
13	Grease Trap for Kitchen Area	1.13	Providing and fixing Oil Grease trap seperator EasyClean free, Article No.: NS 7 93007.21/D Sludge trap capacity: 700 liter, Total separator capacity: 1350 liter, Grease storage capacity: 280 liter, Inlet / Outlet: OD 160 mm, Dimensions: Length: 1880 mm ; Width: 940 mm; Height: 1653 mm, Inlet height h2: 1250 mm ; Outlet height h1: 1185 mm, Set up dimensions: Length: 2147 mm ; Width: 970 mm ; Height: 1653 mm etc. complete as per direction of engineer-in-charge. (FOR GROUND FLOOR KITCHEN)Make-Kessel /Aco	1	Set

PUMPS					
			The scope of Contractor work shall include basic design, construction detailed design, supply installation, testing and commissioning and handling over the entire system along with Shop drawings, As-built drawings and O&M manual.		
1	VERTICAL SUBMERSIBLE SUMP PUMP		Sump Pump: - Providing & fixing & commissioning of Vertical Submersible Sump pump having built in overload protector.Pump outer casing to be of cast iron, Motor housing, suction plate, bottom screen & all screws to be of stainless steel. Motor cover & pump housing to be of corrosion proof cast iron. Pump will have cast iron impeller & double mechanical seals in oil chambers.include one no.sheet steel clade wall mounting control panel for control of 2 nos. phase water pumps having suitable rated incoming isolating switch, branch MCBs, incoming voltmeter with selector switch & fuses DOL starter with hand reset overlaod relay, OFF/AUTO/MANUAL selector switch, ammeters,approved make level control switch for automatic control of pumps, with 1 nos.Low level and 1 nos.float senser in sump tank, and control wiring to stop the pump in case of full tank sensing from both the float sensors & electonic toggle relay for automatic alternating of pupms. Make - Grundfos/Ebara/Xylem/Wilo		
			Note:- All Sump Pumps. 1) All Sump Pumps should be with set of Butterfly Valve, Non return Valves & Control Panel for Auto control operation. 2) Should have indication/ alarm panel to show High, medium& low level with indication/alarm.		
		1	a) Pump for Sump		
2	VERTICAL SUMP PUMP	A	Each Set comprising 2 nos. pumps (1W+1S) Vertical sump Pump 250 lpm @ 20 m Head average discharge pressure(INCLUDING COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION) PANEL - 2 EBS 2.2 T DL Pump Housing - Cast Iron Impeller - Ductile Cast Iron Motor - Cast Iron EN-GJL-250 Rated Power - 2.2kW Rated Speed - 2850rpm	6	Set
3	FLODING SUMP PUMP	B	Each set comprising 2 nos. pumps (1W+1S) Flooding sump Pump 1000 lpm @ 20 m Head average discharge pressure (INCLUDING COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION) PANEL - 2 EBS 5.5 T DL Pump Housing - Cast Iron Impeller - Ductile Cast Iron Motor - Cast Iron EN-GJL-250 Rated Power - 5.5kW	2	Set

			Rated Speed - 2850rpm		
4	CUTTER SUMP PUMP	C	Each Set comprising 2 nos. pumps (1W+1S) Vertical Cutter sump Pump 200 lpm @ 25 m Head average discharge pressure (INCLUDING COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION)	2	Set
			PANEL - 2 EBS 3.7 T DL		
			Pump Housing - Cast Iron		
			Impeller - Cast Iron		
			Motor - Cast Iron EN-GJL-250		
			Rated Power - 3.2kW		
		2	WATER TRANSFER SYSTEM FOR FLUSHING AND DOMESTIC		
5	HYDROPN EUMATIC PUMPING SYSTEM FOR DOMESTIC AND FLUSHING		Providing, fixing, testing & commissioning of Multi-stage centrifugal pump with VFD for HYDROPNEUMATIC PUMPING purpose having built in overload protector.Pump outer casing to be of cast iron, Bronze impeller, SS shaft, Motor houshing, suction plate, bottom screen & all screws to be of stainless steel.Motor cover & pump housing to be of corrosion proof cast iron. Each Pump will have Bronze impeller & double mechanical seals in oil chambers.include one no.sheet steel clade wall mounting control panel for control of water pumps having suitable rated incoming isolating switch, branch MCBs, incoming voltmeter with selector switch & fuses Stardelta/DOL starters with hand reset overlaod relay, OFF/AUTO/MANUAL selector switch, ammeters,approved make pressure switch for automatic control of pumps, AIR VESSEL ,Differential pressure sensor , control wiring & electronic toggle relay for automatic start/stop of pupms. Make - Grundfos/Ebara/Xylem/Wilo		
			Note:- Water transfer Pumps. 1) All Pumps should be with set of Butterfly Valve, Non return Valves & Control Panel for Auto control operation.		
		2.1	DOMESTIC WATER HYN SYSTEM		
6	DOMESTIC WATER HYN SYSTEM	A	HYN set comprising 2 nos. pumps (1W+1S) each pump capacity 300 lpm & Head 80 m (INCLUDING,AIR VESSEL ,DIFFERENTIAL PRESSURE SENSOR, COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION)	1	Set
			Base - Cast Iron EN 1561 EN-GJL-200 ASTM A48-25B		
			Impeller - Stainless Steel EN 1.4301 AISI 304		
			Maxi.Operating Presssure - 1600 KPa		
			Motor Standard - IES		
			Rated Power - 7.5kW		
			Rated Speed - 2920-2940rpm		
		2.2	FLUSHING WATER HYN SYSTEM		
7	FLUSHING WATER HYN SYSTEM	A	HYN Set comprising 2 nos. pumps (1W+1S) Capacity each pump 400 lpm & Head 80 m (INCLUDING,AIR VESSEL ,DIFFERENTIAL PRESSURE SENSOR, COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION)	1	Set
			Base - Cast Iron EN 1561		

			EN-GJL-200 ASTM A48-25B		
			Impeller - Stainless Steel EN 1.4301 AISI 304		
			Maxi.Operating Presssure - 1600 KPa		
			Motor Standard - IES		
			Rated Power - 7.5kW		
			Rated Speed - 2910-2920rpm		
8	WATER TRANSFER SYSTEM FOR COOLING WATER	3	Providing, fixing, testing & commissioning of Multi-stage centrifugal pump FOR PUMPING purpose having built in overload protector.Pump outer casing to be of cast iron, Bronze impeller, SS shaft, Motor houshing, suction plate, bottom screen & all screws to be of stainless steel.Motor cover & pump housing to be of corrosion proof cast iron. Each Pump will have Bronze impeller & double mechanical seals in oil chambers.include one no.sheet steel clade wall mounting control panel for control of water pumps having suitable rated incoming isolating switch, branch MCBs, incoming voltmeter with selector switch & fuses Stardelta/DOL starters with hand reset overlaod relay, OFF/AUTO/MANUAL selector switch, ammeters,approved make pressure switch for automatic control of pumps,to operate on signal from Low level , medium level and high level float senser in OH tank,Solenoid valve and control wiring to stop the pump in case of full tank sensing from both the float sensors & electronic toggle relay for automatic start/stop of pupms. Make - Grundfos/Ebara/Xylem/Wilo		
			Note:- Water transfer Pumps. 1) All Pumps should be with set of Butterfly Valve, Non return Valves & Control Panel for Auto control operation as per below details		
9	FRESH WATER TRANSFER PUMP FOR MAKE UP WATER	3.1	FRESH COOLING WATER TRANSFER PUMP TO COOLING TOWER MAKEUP WATER TANK		
		A	Each set comprising 2 nos. pumps (1W+1S) capacity 150 lpm & Head 50 m (INCLUDING COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION) PANEL - 2 EBS 2.2 T DL	1	Set
			Base - Cast Iron EN 1561 EN-GJL-200 ASTM A48-25A		
			Impeller - Stainless Steel EN 1.4301 AISI 304		
			Maxi.Operating Presssure -1000 KPa		
			Motor Standard - IES		
			Rated Power - 3.0kW		
			Rated Speed - 2900-2920rpm		
10	TREATED WATER TRANSFER PUMP FOR MAKE UP WATER	3.2	STP TREATED WATER TRANSFER PUMP TO COOLING TOWER MAKEUP WATER TANK		
		A	Each set comprising 2 nos. pumps (1W+1S) 150 lpm & Head 50 m (INCLUDING COMMON PUMPS PANEL WITH INTERLOCKING AND AUTOMATION) PANEL - 2 EBS 2.2 T DL	1	Set
			Base - Cast Iron EN 1561 EN-GJL-200 ASTM A48-25B		

			Impeller - Stainless Steel EN 1.4301 AISI 304		
			Maxi.Operating Presssure -1600 KPa		
			Motor Standard - IES		
			Rated Power - 2.2kW		
			Rated Speed - 2890-2910rpm		
11	Y-Strainer	15	Supplying and installing 65 mm dia end line strainer for +ve suction as per specification No. FF-VL/ELS. Make:-Kirloskar/ C & R / Sant / Leader	2	Each
12	Dual Check NRV	18	Supplying and installing Dual Check NRV of size 65 mm dia as per specification No. FF-VL/NRV. Make:-Leader / Sant/Zoloto	20	Each
13	PRV	21	Supplying & erecting Pressure regulating valves for controlling pressure at filling of multitanks with all accseries. Make:-Honywell/ Leader/Zoloto		
		21.1	65MM	2	Each
14	Solenoid Valve	27	Supplying and erecting 65mm Motorised solenoid valve in Soft water and cooling tower water tank. Make - Sant/ Rotex / Avcon	2	Each

GEBERIT SYPHONIC				UNIT	
1	GEBERIT SYPHONIC ROOF DRAINAGE SYSTEM	1	Providing, fixing and testing Geberit HDPE range of pipes as per following sizes. the system is the ideal system to meet the requirements of the Pluvia roof drainage system. Due to its outstanding material characteristics Geberit HDPE is especially suitable for prefabrication. The Geberit Pluvia roof drainage system includes roof outlets, pipes and fittings made of Geberit HDPE. Unlike conventional roof drainage methods, the Geberit Pluvia system functions as a syphonic system. The pipeline fills completely as rapidly as possible and creating a negative pressure. The water is drawn away by suction and not allowed to drain away constantly. This also ensures an improved self-cleaning function, etc. complete as directed by Engineer in charge. ARTICLE NO.365.000.16.0, 367.000.16.0, 369.000.16.0,30.000.16.0. Make:- Geberit		
	GEBERIT HDPE PIPES	1.1	PIPE PE -HD d75x3 L500	20.00	Running Metre
		1.2	PIPE PE -HD d110x4.3 L500	125.00	Running Metre
		1.3	PIPE PE -HD d160x6.2 L500	1005.00	Running Metre
		1.4	PIPE PE -HD d200x6.2 L500	145.00	Running Metre

2	GEBERIT SYPHONIC ROOF DRAINAGE SYSTEM	2	Providing, fixing and testing the Geberit Pluvia outlets are developed for all types of roof structures. Due to the different discharge rates of the outlets (12 l/s or 25 l/s) an economical layout of the roof drainage system can be reached. The wide range of contact sheets and accessories allows to connect with every roof material. The Geberit Pluvia outlets can also be transformed into emergency outlets with an additional installation kit, etc. complete as directed by Engineer in charge. ARTICLE NO.359.108.00.1, 359.099.00.1, 359.117.00.1. Make:- Geberit		
	GEBERIT PLUVIA OUTLETS	2.1	PLU RO w/contsht d56 12l/s	14	PC
		2.2	PLU RO w/contsht d90 25l/s	4	PC
		2.3	PLU roof outer DAF d56 9l/s horiz	10	PC

EXTERNAL BUILDING					
BLDG EXTERNAL WATER SUPPLY					
1	UPVC PIPES	1	Providing and fixing in position tested uPVC easy fit pipes conforming to ASTM D-1785 Schedule 80 with all fittings like bends, tees, reducers, elbows, unions Schedule 80 including supporting on walls complete including scaffolding and hydraulic testing after laying of pipes as specified and including making holes in the walls or floors as required and redoing the same (For pump outlet to OH Tank, Terrace looping, Downcomer of domestic & flushing water supply pipes) etc.complete as directed by Engineer in charge. MAKE- Ashirwad/ Supreme/ Astral		
		1.1	80 mm nominal bore	615.00	Running Metre
		1.2	100 mm nominal bore	72.00	Running Metre
2	GI PIPES	6	Providing and fixing on walls/ ceiling/ floors, 150 mm dia.heavy grade having embossed as ISI Mark galvanised iron pipes weight of 14.74 Kg/meter with necessary fittings. and remaking good the demolished portion and applying primer of anti-corrosive oil paint 2 coats Including necessary scaffolding and removing existing pipe line if necessary and conveying and stacking the same in PWD chowky etc. complete as directed by Engineer in charge.(MUNICIPAL WATER SUPPLY LINE) Make:-Tata / Zenith / Jindal	102.00	Running Metre
3	WATER METER FLOW RATE 300LPM	11	Providing and fixing 150mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Meter for Munciple line Make:-Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Munciple water line		
			FLOW RATE - 300 LPM		

4	WATER METER FLOW RATE 250LPM	12	Providing and fixing 150mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Domestic water line		
			FLOW RATE - 250 LPM		
5	WATER METER FLOW RATE 310LPM	13	Providing and fixing 150mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Flushing water line		
			FLOW RATE - 310 LPM		
6	WATER METER FLOW RATE 150LPM	14	Providing and fixing 100mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Irrigation water line		
			FLOW RATE - 150 LPM		
7	WATER METER FLOW RATE 150LPM	15	Providing and fixing 100mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for rain water treated water line		
			FLOW RATE - 150 LPM		
8	WATER METER FLOW RATE 150LPM	16	Providing and fixing 100mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for COOLING TOWER MAKE WATER TRANSFER FROM STP TREATED WATER		
			FLOW RATE - 150 LPM		
9	WATER METER FLOW RATE 150LPM	17	Providing and fixing 100mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:- Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for COOLING TOWER MAKE WATER TRANSFER FROM FRESH WATER		
			FLOW RATE - 150 LPM		

10	WATER METER FLOW RATE 80LPM	18	Providing and fixing 80mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:-Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Centrifugal Self priming for STP		
			FLOW RATE - 80 LPM		
11	WATER METER FLOW RATE 80LPM	19	Providing and fixing 80mm diameter water meter with non-return valve including strainer, sockets/ union nut and including water meter box making locking arrangements and lock etc.complete as directed by Engineer in charge. [Without chamber]. Make:-Woltman/Kranti / Sant / Kapstan	1.00	Number
			Meter for Filter feed cum backwash pumps for STP		
			FLOW RATE - 80 LPM		
12	PVC VENT	21	Providing and fixing PVC Vents of following sizes in O.H.T./ U.G.R. over delivery pipes along with provision of inverted U bend & mosquito proof jalli at the end etc. complete as directed by engineer-in-charge. MAKE - Ashirwad/ Supreme/ Astral	8.00	Number
		21.1	50mm dia		
13	DI MANHOLE		'Providing and fixing Circular type Ductile Iron Manhole Covers with frame of approved make of 525 mm dia and 75 kg human weight for OHT including all necessary supports, grouting of the frame in RCC, etc. complete as directed by engineer-in-charge.MAKE - Thermodrain / Supreme / Everlast	4.00	Each
			BLDG EXTERNAL DRAINAGE, RAIN WATER DRAIN		
14	DOUBLE ANGLE BRACKET	23	Providing & fixing M.S. fabricated double angle bracket of required size in 50 x 50 x 5 mm of required length with all necessary fabrication & fixing the same and grouting in wall / R.C.C wall using anchor fasteners of required size and clamping of pipe with G.I. 'U' clamp with nut & bolts including applying primer & 2 coats of enamel paint of approved color to brackets etc. complete as per directions of engineer-in-charge. Make:-Tata / Zenith / Jindal	80.00	Kg
15	UPVC COWL	24	Supply,Providing and fixing UPVC Cowl for the following pipes including making all solvent joints with material & labour etc. all complete as per direction of the engineer-in-charge. Make - Ashirvad/ Supreme/ Astral		
		24.1	75 mm dia	4.00	EACH
		24.2	110 mm dia	6.00	EACH
		24.3	160 mm dia	8.00	EACH

16	160MM SN8 PVC PIPE	25	Providing, laying & fixing, jointing 160 mm SN 8 PVC underground pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete as per directions of engineer-in-charge. MAKE - Ashirwad/ Supreme/ Astral	1002.00	Running Metre
17	200MM SN8 PVC PIPE	26	Providing, laying & fixing, jointing 200 mm SN 8 PVC underground pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete as per directions of engineer-in-charge. MAKE - Ashirwad/ Supreme/ Astral	290.00	Running Metre
18	250MM SN8 PVC PIPE	27	Providing, laying & fixing, jointing 250 mm SN 8 PVC underground pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete as per directions of engineer-in-charge. MAKE - Ashirwad/ Supreme/ Astral	79.00	Running Metre
19	315MM SN8 PVC PIPE	28	Providing, laying & fixing, jointing 315 mm SN 8 PVC underground pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete as per directions of engineer-in-charge. MAKE - Ashirwad/ Supreme/ Astral	2.00	Running Metre
20	BRICK MANSORY GULLY TRAP	29	Constructing 300x300 internal size brick masonry gully trap chamber including (waste pipe)	15.00	Number
		29.1	i. 115 thick brick walls in C.M. 1:5		
		29.2	ii. 100 thick CC bed in M-15		
		29.3	iii. Installing in it glazed stoneware gully trap 150x100 size		
		29.4	iv. Connecting C.I. waste pipes on top of gully trap with cover		
		29.5	v. Filling space between gully trap and chamber with C.C. M 10		
		29.6	vi. Plastering inside the chamber with C.M. 1:3 to form a hopper		
		29.7	vii. Fixing hinged D.I. frame cover ,HEAVY DUTY ,40 TON in C.C. M 15 and finished smooth on top etc. complete as per directions of engineer-in-charge. (NECO Make for cover)		

21	POLYMER CONCRET DRAIN CHANNEL	32	Supply, Installation, Testing & Commissioning of Polymer concrete drain channel with edge protection, width 130 mm,height varies from 150-250mm, with Ductile iron Grating D*400 Load Class, and conform to the EN 1433, etc. complete as per directions of engineer-in-charge.(for STP overflow drain & in pump room & basement drain) MAKE - Kessel/ACO	230.00	Metre
		32.1	A Drain Connecting element for Drain Channel	12.00	Nos
		32.2	A closed End cap Withoutlet connector Ø 100 mm	8.00	Nos
		32.3	Closed End cap suitable for for channel start/end	8.00	Nos
22	POLYMER CONCRET DRAIN CHANNEL	33	Supply, Installation, Testing & Commissioning of Polymer concrete drain channel with edge protection, width 240 mm,height varies from 280-380mm, with Ductile iron Grating D*400 Load Class, and conform to the EN 1433, etc. complete as per directions of engineer-in-charge MAKE - Kessel/ACO	196.00	Metre
		33.1	A Drain Connecting element for Drain Channel	12.00	Nos
		33.2	A closed End cap Withoutlet connector Ø 160 mm	8.00	Nos
		33.3	Closed End cap suitable for for channel start/end	8.00	Nos

STP					
1	STP MBBR TECHNOLY	1	Supply, Installation, Testing and Commissioning of 70 Cu.mtr/day STP consisting of the following items ,MAKE- Thermax/ION Exchange /Pentair		
		1.1	Manually inclined bar screen in MOC - SS 304 ,230 mm Thick with 8 mm perforation,with frame. No as required with a minimum retention time	1	Set
		1.2	Equalized sewage transfer pumps- (1 working & 1 standby). Capacity - 3.5cu.mtr/hr. Discharge head - 10 mtr.	2	Set
		1.3	Agitator in Pre-anoxic de-nitrifying tank- Qty 1 no. MOC - SS , Type of agitator - slow speed and motor hp suitable.	1	Each
		1.4	Anoxic system sludge recirculation pump from lamella zone to Anoxic tank (1 working & 1 standby). Capacity - 20.0 cu.mtr/hr. Discharge head - 10 mtr.	2	Each
		1.5	COARSE BUBBLE air diffuser for Equalization tank to diffuse air. MOC - EPDM for membrane of diffusers. Type - Tubular or Disc type	1	Lot
		1.6	FINE BUBBLE air diffuser for MBBR tank to diffuse air. MOC - SILLICON for membrane of diffusers. Type - Disc membrane type	1	Lot
		1.7	Floating MBBR media in bio reactor - Qty as required. Type - Cylindrical, floating type, MBBR media. MOC - PP	1	Lot
		1.8	Air blower (for aeration tank / Effluent collection tank / Equalization tank / sludge holding tank) - 2 nos (1 working & 1 standby). MOC - C.I, Discharge capactiy - 120 cu.mtr/hr, pressure - at required mm wg, Twin lobe rotary type, Noise level - max 95 dba at 3 mtr distance.	2	Set

		1.9	Sewage Recycle pumps for - MOC - CI, 2 nos (1 working & 1 standby),Capacity - 3.5 cu.mtr / hour, Head - 10mtr, Type - Horizontal Centrifugal Self priming.	2	Nos
		1.10	Clarifier/Tube settler media for Inclined Tube Secondary Clarifier- MOC - PVC, Type - Inclined tube,	1	M3
		1.11	Centrifuge feed pump MOC - CI, Type - Horizontal Centrifugal Self priming,capacity - 3.5 cu.mtr/hour, head - 10mtr, 2 nos (1 working & 1 standby)	2	Set
		1.12	NAOCL (Hypochlorite) dosing with dosing tank and dosing pump. Tank capacity - 100 ltrs with electronic metering facility including meter , 0 to 6 LPH	1	Each
		1.13	Filter feed cum backwash pumps- MOC - CI, capacity - 3.5 cu.mtr.hr, Head - 30 mtr, Type - Horizontal centrifugal self priming, (1 working & 1 standby)	2	Set
		1.14	Multi Graded Sand Filter- MOC -MSEP- Dia 500mm x 1500 mm HOS ht with interconnecting piping ,valves and media	1	Each
		1.15	Activated Carbon Filter- MOC -MSEP- Dia 500mm x 1500 HOS mm ht with interconnecting piping ,valves and media	1	Each
		1.16	SOFTENER - MOC -MSEP- Dia 800mm x 1500 HOS mm ht with interconnecting piping ,valves and RESIN	1	Each
		1.17	UV STERLIZER with UV Doage of 600 JM2@ 80% UVT- , FLOW : 3.5 m3/hr	1	Lot
		1.18	Sludge dewatering unit - 1 lot, MOC - MS / PP, Capacity - 50 ltrs wet cake holding capacity, Type - Basket centrifuge	1	Lot
2	ELECTRICAL CONTROL PANEL FOR STP	2	Electrical works including main electrical panel-self standing floor mounted, compartmentalized panel, along with copper flat / round armounted cabling from panel to all equipments inside the ETP/STP. Cable shall be proerly clamped on the ceiling or on GI perforated cable tray while dropping down. (Only incoming power input cable will be provided by other agency.) Complete electrical works including copper earthing with 8 swg wire is inside the scope of STP vendor. Busbar inside the panel shall be with copper with a current carrying density of maximum 1.2 amps / sq.mm. Panel Incomer shall be suitably sized 4 pole MCCB with 96 x 96 size digital meter for voltage, ampere and kwh provided with BMS interface facility. Outgoings shall be suitably sized MCBs or MCCBs,All equipments starters should have sufficient NO/NC ,potential free contacts ,relay contacts to integrate/monitor with IBMS system.	1	Each
3	SOFTNER FOR COOLING TOWER MAKE UP	3	SOFTNER FOR COOLING TOWER MAKE UP WATER (RECEIVED FROM 3RD PARTY SOURCE 94 KLD)(Design Softner for 400 ppm Hardness)		
		3.1	NAOCL (Hypochlorite) dosing with dosing tank and dosing pump. Tank capacity - 150 ltrs with electronic metering facility including meter , 0 to 10 LPH	1	Each

		3.2	Filter feed cum backwash pumps- MOC - CI, capacity - 5 cu.mtr.hr, Head - 35 mtr, Type - Horizontal centrifugal self priming, (1 working & 1 standby)	1	Each
		3.3	Multi Graded Sand Filter- MOC -MSEP- Dia 750mm HOS ht with interconnecting piping ,valves and media	1	Each
		3.4	Activated Carbon Filter- MOC -MSEP- Dia750 mm HOS mm ht with interconnecting piping ,valves and media	1	Each
		3.5	SOFTENER - MOC -MSEP- Dia 925mm x 1800 HOS mm ht with interconnecting piping ,valves and RESIN- Dia 1000mm x 1875 HOS mm & RESIN 590 LITS FOR 94 KLD STP SYSTEM	1	Each
		3.6	UV STERLIZER with UV Doage of JM2@ 80% UVT- , FLOW : 5 m3/hr	1	Each
4	ULTRAFILTRATION PLANT	4	ULTRA FILTRATION COMMON FOR FOR FLUSHING (STP RECYCLED WATER 60 KLD) AND COOLING TOWER MAKE UP WATER (RECEIVED FROM 3RD PARTY SOURCE 94 KLD)= 154 KLD		
		4.1	ULTRAFILTRATION PLANT , PERMEATE FLOW : 8 m3/hr , for 20hr working	1	Each
		4.2	Ozonisation sytem for treated water tank 1 (230 CUM STP TREATED WATER TANK)	1	Set
5	INSTRUMENTATION	5	INSTRUMENTATION		
		5.1	Hi / lo Level switches - 3 sets , CAPACITANCE TYPE		
		5.2	Glycerine filled 100 mm dia pressure guage with siphone connection -		
		5.3	Rotameter - 2 nos		
		5.4	Interconnecting piping - GI C CLASS FOR AIR PIPING - UPVC SCH 40 FOR SEWAGE LINE	1	Each
		5.5	VALVES -SS 304 FOR AIR LINE -PP FOR SEWAGE LINE		
		5.6	All equipments should have intergatable with IBMS system, and should have sufficient NO/NC, Potential free and relay contacts.		
		5.7	TECHNICAL SUPPORT AND DOCUMENTATION FOR MPCB & LOCAL AUTHORITY LIASONING		
6	Market Rate	6	SUPPLY , INSTALLATION ,TESTING AND COMMISSIONING OF ONLINE STP PARAMETERS MONITORING SYSTEM ,AND ALSO MONITOR/INTEGRATE IN IBMS SYSTEM MAKE- ION Exchange /Thermax/Pentair/Pratham enviro/Kesari Infrabuild.	1	Set
		6.1	STP online monitoring system with data transfer system to MPCB Comprise of online transferring data of Ph , BOD,COD,TSS and flow to MPCB and also monitoring in IBMS system with communication port		


BIO GAS & OWC					
			MISCELLANEOUS ITEMS-WATER COOLER, BIO GAS, OWC, MAKE- LAHS green india pvt. Ltd./Urja Bio System Pune/Super clean/Pratham enviro		
1	BIO GAS PLANT	1	Supply, installation, testing and commissioning of Bio-gas plant. Comprising of following items:	1	Each
		1.1	Civil construction of Biogas Plant Units-		
			Waste Unloading and Crushing Shed 1 No/2.5m x 3m x 3m/ MS Fabrication		
			Slurry preparation tank 1 no./250 lit/MS/PVC		
			Biogas digester 1 nos./12cum/ RCC,		
			Digested slurry tank 1 no./6 cum / brick work		
			Biogas Balloon sheds room 1 no /MS Fabrication – 3m x3m x3m		
			GRT and Blower platform 1 No /PCC		
			MS Gas Holder 1 No/MS		
		1.2	Electro- Mechanical Items :		
			Food Waste Crusher 1 no / 3 HP		
			Biogas Balloon with accessories -1 No./ 5 cum / PVC rubber balloon with guide pipes, moisture traps, inlet and out let connections , Biogas auto pressure maintaining system, pressure switch, pressure gauge, Gas receiving tank. etc.complete as directed by Engineer in charge.		
		1.3	Biogas pressure regulation system		
			Biogas Culture Loading 10 tons		
			Waste Collection Bins 30-40kg – Wheel Arrangements – 4 nos		
			Biogas stoves 25 CFT , 1 Nos.		
			Control panel for Biogas blower, Crusher. 1 set std.		
	Piping & Cabling. UPVC – 1.5 & 1 “,@ 150 ft				
	Installation, Erection & commissioning . For 100 kg/day /10 cum Biogas plant. MAKE-LAHS green india pvt. Ltd./Urja Bio System Pune/Super clean/Pratham enviro				
2	ORGANIC WASTE DISPOSAL	2	Organic Waste Disposal System	1	Each
		2.1	Fully automatic Micro-organism based natural composting system with PLC based control ,Stainless Steel (SS304) shaft & mixing blade to convert organic waste like kitchen waste , canteen waste etc. to organic manure etc.complete as directed by Engineer in charge.		
		2.2	Capacity 60 Kg /day ,with Waste Collection Bins 30-40kg – Wheel Arrangements – 3nos. MAKE- LAHS green india pvt. Ltd./Urja Bio System Pune/Super clean/Pratham enviro		

RWT					
			RAIN WATER TREATMENT PLANT - 150LPM /9 M3/HR ,Make - ION Exchange /Thermax/Pentair/Pratham enviro/Kesari Infrabuild.		
1	RAIN WATER TREATMENT PLANT	1	Water Treatment Plant of cap. 150 LPM/9.0 cum/hr incld all interconnecting piping valves & other accessories incld necessary internal cabling, termination support stays, clamps, inlet & outlet connections fdn works etc. comprising of the following :-		
	MULTI GRADE FILTER	1.1	(a) Supply & erection commissioning of Multi Grade filter , vertical cylindrical type, MS fabricated vessel of suitable size as per IS-2062, incld pipeline 80mm dia, butterfly valve of suitable size incld 2 nos. pressure gauge, sampling cocks filled with Sand & under bed media. The shell thickness shall be of 4mm and dished end having 4mm with MS Header and PVC lateral collecting system . Multi Grade Filter should have Red Oxide paint from out side and Epoxy paint from inside .The shell shall also be provided with adequate size of air vent line with valve etc.complete as directed by Engineer in charge.	1	EACH
	ACTIVATED CARBON FILTER	1.2	(b) Supply & erection commissioning of Activated Carbon Filter , vertical cylindrical type, MS fabricated vessel of suitable size as per IS-2062, incld pipeline 80mm dia, butterfly valve of suitable size incld 2 nos. pressure gauge, sampling cocks filled with activated carbon media with iodine value 1000. The shell thickness shall be of 4mm and dished end having 5mm and bed plate under drain collecting system will be strainer on bed plate. Activated Carbon filter should have Epoxy paint from inside and outside red oxide paint .The shell shall also be provided with adequate size of air vent line with valve etc.complete as directed by Engineer in charge. Note : Test certificate for Iodine Value for Activated Carbon.	1	EACH
	CHEMICAL DOSING SYSTEM	1.3	(c) Chemical Dosing System (CDS-2 without High Speed Agitator) for Sodium Hypo-chlorite at raw water collection tank with electromagnetic metering pump run on 220V AC for 100% accurate dosing with all accessories with 200 ltrs PVC tank.	1	EACH
	FILTER FEED PUMP	1.4	(d) Supply & erection commissioning of Filter Feed Pump (1W+1S) to Multi Grade filter - Activated Carbon Filter , flow rate - 9m3/hr (1W+1S)	1	SET
	UV SYSTEM	1.5	(e) Supply & erection commissioning of UV System-01no.	1	EACH
			NOTE :- (i) Minimum working pressure of the plant - 2 Kgs/Sqcm. Maximum working pressure of the plant - 3.5Kgs/Sqcm.		
			(ii) Backwashing shall be 30 minutes at an interval of 8 hrs.		
			(iii) Turbidity contents permissible limit < 5 NTU after outlet of MGF and ACF .		

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२१ /प्र.क्र. ०३/२९३२(१)/२०२३

दि. ९ / ८ / २०२३

प्रत माहितीस्तव -

१. प्रसिध्दीकरीता
२. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबीकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे. (Internal Electrical Work)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	BOQ REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
INTERNAL ELE BOQ					
			NOTE- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
A.1	INTERNAL BUSDUCT				
1	BUS DUCT AND RISER MAIN WING A LIGHT & POWER	1.1			
			Supply Installation, Testing and Commissioning etc of 250A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.1.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr

		1.1.2	Straight Length without Tap off Opening	63	Mtr
		1.1.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.1.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.1.5	Horizontal Elbow	3	No.
		1.1.6	Vertical Elbow	2	No.
		1.1.7	Flange End only	1	No.
		1.1.8	End feed unit - direct cable termination arrangment only	1	No.
		1.1.9	End cover IP55	1	No.
		1.1.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.1.11	T- Joint	1	Nos
		1.1.12	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	9	No.
		1.1.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	3	No.
2	BUS DUCT AND RISER MAIN WING B LIGHT & POWER	1.2			
			Supply Installation, Testing and Commissioning etc of 400A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvenized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.2.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.2.2	Straight Length without Tap off Opening	69	Mtr
		1.2.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	28	No.
		1.2.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.2.5	Horizontal Elbow	3	No.
		1.2.6	Vertical Elbow	2	No.
		1.2.7	Flange End only	1	No.
		1.2.8	End feed unit - direct cable termination arrangment only	1	No.
		1.2.9	End cover IP55	1	No.
		1.2.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.

		1.2.11	T- Joint	1	Nos
		1.2.12	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	9	No.
		1.2.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	5	No.
3	BUS DUCT AND RISER MAIN WING C LIGHT & POWER	1.3			
			Supply Installation, Testing and Commissioning etc of 250A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.3.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.3.2	Straight Length without Tap off Opening	35	Mtr
		1.3.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.3.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.3.5	Horizontanl Elbow	4	No.
		1.3.6	Vertical Elbow	3	No.
		1.3.7	Flange End only	1	No.
		1.3.8	End feed unit - direct cable termination arrangment only	1	No.
		1.3.9	End cover IP55	1	No.
		1.3.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.3.11	T- Joint	1	Nos
		1.3.12	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	11	No.
		1.3.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	3	No.
4	BUS DUCT AND RISER MAIN WING D LIGHT & POWER	1.4			

			Supply Installation, Testing and Commissioning etc of 400A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.4.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.4.2	Straight Length without Tap off Opening	35	Mtr
		1.4.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.4.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.4.5	Horizontal Elbow	3	No.
		1.4.6	Vertical Elbow	2	No.
		1.4.7	Flange End only	1	No.
		1.4.8	End feed unit - direct cable termination arrangment only	1	No.
		1.4.9	End cover IP55	1	No.
		1.4.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.4.11	T- Joint	1	Nos
		1.4.12	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	9	No.
		1.4.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	5	No.
5	BUS DUCT AND RISER MAIN WING AB UPS	1.5	Supply Installation, Testing and Commissioning etc of 400A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded		

			corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.5.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.5.2	Straight Length without Tap off Opening	37	Mtr
		1.5.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.5.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.5.5	Horizontal Elbow	4	No.
		1.5.6	Vertical Elbow	3	No.
		1.5.7	Flange End only	1	No.
		1.5.8	End feed unit - direct cable termination arrangment only	1	No.
		1.5.9	End cover IP55	1	No.
		1.5.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.5.11	T- Joint	1	Nos
		1.5.12	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	3	No.
		1.5.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	3	No.
		1.5.14	125 Amp Empty Tap off Box with 125A 36kA FP MCCB	1	No.
6	BUS DUCT AND RISER MAIN WING CD UPS	1.6			
			Supply Installation, Testing and Commissioning etc of 400A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.6.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.6.2	Straight Length without Tap off Opening	87	Mtr
		1.6.3	Horizontal Bracket at Every 1 Mtr Inteval for	45	No.

			Horizontal Busbar Installation		
		1.6.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.6.5	Horizontal Elbow	3	No.
		1.6.6	Vertical Elbow	2	No.
		1.6.7	Flange End only	1	No.
		1.6.8	End feed unit - direct cable termination arrangment only	1	No.
		1.6.9	End cover IP55	1	No.
		1.6.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.6.11	T- Joint	1	Nos
		1.6.12	80 Amp Empty Tap off Box with 80A 36kA FP MCCB	1	No.
		1.6.13	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	6	No.
7	BUS DUCT AND RISER MAIN WING AB AC/VENTI	1.7			
			Supply Installation, Testing and Commissioning etc of 630A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.7.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.7.2	Straight Length without Tap off Opening	35	Mtr
		1.7.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.7.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.7.5	Horizontal Elbow	3	No.
		1.7.6	Vertical Elbow	2	No.
		1.7.7	Flange End only	1	No.
		1.7.8	End feed unit - direct cable termination arrangment only	1	No.
		1.7.9	End cover IP55	1	No.
		1.7.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.7.11	T- Joint	1	Nos
		1.7.12	25 Amp Empty Tap off Box with 25A 36kA FP MCCB	6	No.

		1.7.13	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	1	No.
		1.7.14	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	3	No.
		1.7.15	100 Amp Empty Tap off Box with 100A 36kA FP MCCB	1	No.
		1.7.16	250 Amp Empty Tap off Box with 250A 36kA FP MCCB	1	No.
8	BUS DUCT AND RISER MAIN WING CD AC/VENTI	1.8			
			Supply Installation, Testing and Commissioning etc of 630A, 1000V, 50Hz, 16kA for 1 Sec 3P+N-100%+PE- internal earth Sandwich type Aluminium Busbar Trunking system with earth fault protection & impulse withstand voltage of 8KV as per IEC 61439-1/2. Outer casing of system consists of four C-ribbed section bars, bordered and riveted with excellent mechanical, electrical and heat loss efficiency. The sheetmetal is made of electro-galvanized steel 1.6mm thick with epoxy coating having degree of protection IP55. The busbar conductor have a rectangular corss-section with rounded corner, Aluminium alloy with Tin Plating at joint to avoid oxidation.The Insulation between the bars shall be Class F. The junction contact is ensured for each phase, insulated with red class F thermosetting plastic material with breakdown voltage of minimum 6KV.Enclosure is painted with RAL7035 resins with a high resistance to chemical agents. (130X130mm), As directed by Engineer in charge Make - LEGRAND/ SIEMENS / SCHNEIDER / L & T		
		1.8.1	Straight Length with Tap off Opening at every 1 Mtr. Interval	35	Mtr
		1.8.2	Straight Length without Tap off Opening	72	Mtr
		1.8.3	Horizontal Bracket at Every 1 Mtr Inteval for Horizontal Busbar Installation	45	No.
		1.8.4	Vertical Spring Bracket at Every 1.5 Mtr Inteval for Vertical Busbar Installation	27	No.
		1.8.5	Horizontal Elbow	3	No.
		1.8.6	Vertical Elbow	2	No.
		1.8.7	Flange End only	1	No.
		1.8.8	End feed unit - direct cable termination arrangement only	1	No.
		1.8.9	End cover IP55	1	No.
		1.8.10	Copper Flexible Braid Connection Length [mm] 300-450 RYBN set	1	No.
		1.8.11	T- Joint	1	Nos
		1.8.12	25 Amp Empty Tap off Box with 25A 36kA FP MCCB	5	No.
		1.8.13	32 Amp Empty Tap off Box with 32A 36kA FP MCCB	3	No.
		1.8.14	63 Amp Empty Tap off Box with 63A 36kA FP MCCB	2	No.
		1.8.15	100 Amp Empty Tap off Box with 100A 36kA FP MCCB	2	No.

A.2		A.2	INTERNAL LT PANEL		
			<p>Note- ALL LT PANELS ARE TYPE TESTED - IP-52 RATING Breakers shall be compatible to monitored through' IBMS] The Energy multifunction meter with RS 485/RS232 port shall be provided as per SLD</p> <p>PANEL BUILDER Make - SCHNIEDER/SEIMENS/L&T/LEGRAND/ DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING /PRATIK SYSTEMS</p> <p>SMART DB FOR DATA IN CLOUD Make - SCHNEIDER / POWEREASY/LEGRAND/L&T</p>		
	WING-A BUS DUCT				
1	2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.1	<p>2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,10kA,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO,1 NOS. (WAITING ROOM AHU)</p> <p>32A TPN RCBO, 1 NOS. (AUDITORIUM + STAGE AHU)</p> <p>32A TPN RCBO, 1 NOS. (GREEN ROOM AHU)</p> <p>25A TPN RCBO, 1NOS. (RAW POWER DB-1)</p> <p>32A TPN RCBO, 2 NOS.(SPARE)</p> <p>25A TPN RCBO, 1 NOS.(SPARE)</p>		
2	2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.2	<p>2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,10kA,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (WAITING AREA + COMMON AREA LDB)</p> <p>16A TPN RCBO, 1 NOS. (AUDITORIUM + STAGE +GREENROOM LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
3	3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.3	<p>3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO,1 NOS. (PDB-2)</p> <p>40A TPN RCBO,1 NOS.(SPARE)</p> <p>25A TPN RCBO,2 NOS.(SPARE)</p>		
4	3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.4	<p>3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,10kA,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
5	4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.5	<p>4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB,,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO,1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO,2 NOS.(SPARE)</p>		
6	4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.6	<p>4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,,FP/TM, O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
7	5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.7	<p>5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
8	5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.8	<p>5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 3 NOS. (LDB -1)</p> <p>25A TPN RCBO, 1 NOS. (LDB-4)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
9	6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.9	<p>6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
10.00	6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.10	<p>6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO,3 NOS. (LDB -1)</p> <p>16A TPN RCBO,3 NOS.(SPARE)</p>		
11	6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.11	<p>6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relay-er-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO,2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>32A TPN RCBO,1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
12	6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.12	<p>6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 3 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
	WING-B BUS DUCT				
13	2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.1	<p>2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2NOS. (RAW POWER DB-1)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
14	2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.2	<p>2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 2NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
15	3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.3	<p>3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
16	3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.4	<p>3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
17	4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.5	<p>4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
18	4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.6	<p>4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM, O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
19	5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.7	<p>5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 2 NOS. (PDB)</p> <p>40A TPN RCBO, 2 NOS.(SPARE)</p> <p>25A TPN RCBO, 1 NOS.(SPARE)</p>		
20	5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.8	<p>5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB,,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 2 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
21	6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.9	<p>6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relay-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
22.00	6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.10	<p>6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
23	6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.11	<p>6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
24.00	6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.12	<p>6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 3 NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
25	TERRACE FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.13	<p>TERRACE FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB)</p> <p>25A TPN RCBO, 3 NOS.(SPARE)</p>		
26.00	TERRACE FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.14	<p>TERRACE FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (TERRACE FLOOR MESEUM LDB)</p> <p>16A TPN RCBO, 1 NOS. (TERRACE FLOOR EXTERNAL LDB)</p> <p>40A TPN RCBO, 2 NOS.(SPARE)</p> <p>16A TPN RCBO, 1 NOS.(SPARE)</p>		
	WING-C BUS DUCT				
27	1ST FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.1	<p>1ST FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 4 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2NOS. (RAW POWER DB-1)</p> <p>32A TPN RCBO, 2 NOS.(SPARE)</p> <p>25A TPN RCBO, 1 NOS.(SPARE)</p>		
28	1ST FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.2	<p>1ST FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 4NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
29	2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.3	<p>2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2NOS. (RAW POWER DB-1)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
30	2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.4	<p>2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 2NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
31	3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.5	<p>3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
32	3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.6	<p>3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
33	4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.7	<p>4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
34	4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.8	<p>4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM, O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
35	5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.9	<p>5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
36	5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.10	<p>5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 2 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
37	6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.11	<p>6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
38.00	6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.12	<p>6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 3 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
39	6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.13	<p>6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
40.00	6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.14	<p>6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 3 NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
	WING-D BUS DUCT				
41	2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.1	<p>2ND FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 2NOS. (RAW POWER DB-1)</p> <p>40A TPN RCBO, 2 NOS.(SPARE)</p> <p>25A TPN RCBO, 1 NOS.(SPARE)</p>		
42	2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.2	<p>2ND FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 4NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
43	3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.3	<p>3RD FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
44	3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.4	<p>3RD FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
45	4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.5	<p>4TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 1 NOS. (PDB-1)</p> <p>25A TPN RCBO, 1 NOS. (PDB-2)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
46	4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.6	<p>4TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM, O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 1 NOS. (LDB -1)</p> <p>16A TPN RCBO, 1 NOS. (LDB-2)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
47	5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.7	<p>5TH FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interuptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSEBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2 NOS. (PDB)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
48	5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.8	<p>5TH FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p>		
			16A TPN RCBO, 2 NOS. (LDB -1)		
			16A TPN RCBO, 3 NOS.(SPARE)		
49	6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.9	<p>6TH LOWER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 2 NOS. (AHU)</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 2 NOS. (PDB)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 2 NOS.(SPARE)</p>		
50.00	6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.10	<p>6TH LOWER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 4 NOS. (LDB -1)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
51	6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.11	<p>6TH UPPER FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 3NOS. (AHU)</p> <p>40A TPN RCBO, 1 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS. (PDB)</p> <p>40A TPN RCBO, 1 NOS.(SPARE)</p> <p>32A TPN RCBO, 1 NOS.(SPARE)</p> <p>25A TPN RCBO, 1 NOS.(SPARE)</p>		
52.00	6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.12	<p>6TH UPPER FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>16A TPN RCBO, 4 NOS. (LDB)</p> <p>16A TPN RCBO, 3 NOS.(SPARE)</p>		
53	TERRACE FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD	1.13	<p>TERRACE FLOOR RAW POWER & AC SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>40A TPN RCBO, 2 NOS. (AHU)</p> <p>25A TPN RCBO, 3 NOS.(SPARE)</p>		
54.00	TERRACE FLOOR LIGHT SMART DB FOR DATA IN CLOUD	1.14	<p>TERRACE FLOOR LIGHT SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1.00	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO, 1 NOS. (TERRACE MESEUM AREA LDB)</p> <p>16A TPN RCBO, 1 NOS. (TERRACE EXTERNAL AREA LDB)</p> <p>32A TPN RCBO, 2 NOS.(SPARE)</p> <p>16A TPN RCBO, 1 NOS.(SPARE)</p>		
	WING-AB UPS BUS DUCT				
55	2ND FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.1	<p>2ND FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 4NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
56	3RD FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.2	<p>3RD FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
57	4TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.3	<p>4TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
58	5TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.4	<p>5TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -125A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -125A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 4NOS. (UPS POWER)</p> <p>63A TPN RCBO,10KA - 2NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 2 NOS.(SPARE)</p> <p>63A TPN RCBO, 10KA - 1 NOS.(SPARE)</p>		
59	6TH LOWER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.5	<p>6TH LOWER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 4NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
60	6TH UPPER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.6	<p>6TH UPPER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge, current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
61	TERRACE FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.7	<p>TERRACE FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -32A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -32A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 2NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
	WING-CD UPS BUS DUCT				
62	1ST FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.1	<p>1ST FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relay-Relay-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>32A TPN RCBO,10KA - 1NOS. (UPS POWER)</p> <p>25A TPN RCBO,10KA - 2NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 2 NOS.(SPARE)</p> <p>32A TPN RCBO, 10KA - 1 NOS.(SPARE)</p>		
63	2ND FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.2	<p>2ND FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
64	3RD FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.3	<p>3RD FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
65	4TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.4	<p>4TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 5NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
66	5TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.5	<p>5TH FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
67	6TH LOWER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.6	<p>6TH LOWER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -80A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -80A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 6NOS. (UPS POWER)</p> <p>32A TPN RCBO,10KA - 2NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 2 NOS.(SPARE)</p> <p>32A TPN RCBO, 10KA - 1 NOS.(SPARE)</p>		
68	6TH UPPER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1.7	<p>6TH UPPER FLOOR (AB WING) UPS POWER DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 7NOS. (UPS POWER)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
	INVERTER DISTRIBUTION PANEL				
69	INVERTER LIGHT DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD	1	<p>INVERTER LIGHT DISTRIBUTION PANEL SMART DB FOR DATA IN CLOUD- Supply, installation,testing & commissioning Type Of Construction Floor mounted cubicle type panel Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treated for rust proofing.with separate busbar chamber & cable chambers Front & Back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply</p> <p>Main Control Unit/ Incomer WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>1 No. -63A MCCB, ,FP/TM , O/C,S/C,E/F,U/V and Shunt coils , Phase reversal relay etc.,WITH SMART IoT LINK TO GET DATA IN CLOUD</p> <p>Basic Event Summary and Pass/Fail Reports for IEEE 519 for Volatge and current Harmonics, 50160 Power Frequency, supply voltage indication, Supply Volatge Dips, Short and Long interruptions, Temporary Over Voltages, Voltage Unbalance and Harmonic Voltage. THD on Voltage and current harmonics with custom alarming, Individual Harmonics upto 63rd for current and Voltage, High Resolution waveform capture and directly from meter via FTP. Distrurbance Direction Detection, Sag/swell on any volatge , current channel.</p> <p>Visual Indication 1-LED Based Phase indicating lamps, control RCBOs , CTs, etc.</p> <p>Visual Indication 2-Set - ON/OFF/ TRIP lamps with control RCBOs</p> <p>Additional Controller-Set - Manual Operation Selector switch</p> <p>Signal Relayer-Potential Free Contacts for Remote Monitoring</p> <p>Potential Bus/Busbar: set -63A TPN,Aluminum BUSBAR</p> <p>OUTGOING WITH SMART IoT LINK TO GET DATA IN CLOUD</p>	1	No.

			<p>RCBOs shall be suitable for field-fittable Protection auxiliaries (viz. Over-voltage release, Under-voltage release, Shunt trip) and Indication Auxiliaries (like Auxiliary Contact, Trip alarm contact).The circuit breakers shall be communication ready to indicate the status of the device (On/Off/Trip), Number of On/Off cycles and Number of Tripping over universally open Modbus and Ethernet (TCP IP) protocol so as to have seamless connectivity with any Energy and Building Management System. In addition the circuit breaker should be able to communicate through GSM module the status of the device (On/Off/Trip) through mobile phone.</p> <p>25A TPN RCBO,10KA - 8NOS. (EMERGENCY LIGHT DB)</p> <p>25A TPN RCBO, 10KA - 3 NOS.(SPARE)</p>		
70	LIGHT,POWER, INDOOR AC, PANEL	1.3	<p>LIGHT,POWER, INDOOR AC, PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 2000A ACB, 25KA , FP /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 2000A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>WING A BUSDUCT -1 No. -- 250A TPN MCCB 25kA, TPN /TM with O/C,S/C,E/F,</p> <p>WING B BUSDUCT -1 No. -- 400A TPN MCCB 25kA, TPN /MP with O/C,S/C,E/F</p> <p>WING C BUSDUCT -1 No. -- 250A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>WING D BUSDUCT -1 No. -- 400A TPN MCCB 25kA, TPN / MP with O/C,S/C,E/F</p> <p>BASEMENT FLOOR LIGHT PANEL -1 No. -- 32A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>GROUND FLOOR LIGHT PANEL -1 No. -- 25A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>BASEMENT FLOOR ,POWER,INDOOR AC, PANEL -1 No. -- 32A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>GROUND FLOOR ,POWER,INDOOR AC, PANEL -1 No. -- 125A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>30 KVA INVERTER LIGHT DB -1 No. -- 63A TPN MCCB 25kA, TPN / TM with O/C,S/C,E/F</p> <p>UPS INCOMING PANEL -1 No. -- 800A TPN ACB 25kA, TPN / MP with O/C,S/C,E/F</p> <p>SPARE - 1 Nos - 200A TPN MCCB 25KA TPN / TM with O/C,S/C,E/F</p>	1	No.

			SPARE - 1 Nos - 400A TPN MCCB 25KA TPN / MP with O/C,S/C,E/F		
			SPARE - 1 Nos - 630A TPN MCCB 25KA TPN / MP with O/C,S/C,E/F		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
71	BASEMENT FLOOR LIGHT PANEL	1.4	<p>BASEMENT FLOOR LIGHT PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 32A MCCB, 16kA, TPN /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>BASEMENT FLOOR LDB-1-1 No. -- 16A TPN RCBO 16kA,</p> <p>BASEMENT FLOOR LDB-2-1 No. -- 16A TPN RCBO 16kA,</p> <p>SPARE -3 No. -- 16A TPN RCBO 16kA,</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
72	GROUND FLOOR LIGHT PANEL	1.5	<p>GROUND FLOOR LIGHT PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 32A MCCB, 16kA, TPN /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>GROUND FLOOR LIGHT DB A WING-1 No. -- 16A TPN RCBO 16kA,</p> <p>GROUND FLOOR LIGHT DB B WING -1 No. -- 16A TPN RCBO 16kA,</p>	1	No.

			<p>GROUND FLOOR LIGHT DB 3 CAFETERIA -1 No. -- 16A TPN RCBO 16kA,</p> <p>GROUND FLOOR LIGHT DB 4 C WING -1 No. -- 16A TPN RCBO 16kA,</p> <p>GROUND FLOOR LIGHT DB 5 RECREATION & LIBRARY -1 No. -- 16A TPN RCBO 16kA,</p> <p>GROUND FLOOR LIGHT DB 4 D WING -1 No. -- 16A TPN RCBO 16kA,</p> <p>SPARE -3 No. -- 16A TPN RCBO 16kA,</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
73	BASEMENT FLOOR ,POWER, INDOOR AC, PANEL	1.6	<p>BASEMENT FLOOR ,POWER, INDOOR AC, PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A MCCB, 16kA, TPN /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>BASEMENT FLOOR PDB-1-1 No. -- 16A TPN RCBO 16kA,</p> <p>BASEMENT FLOOR PDB-2-1 No. -- 16A TPN RCBO 16kA,</p> <p>SPARE -3 No. -- 16A TPN RCBO 16kA,</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
74	GROUND FLOOR ,POWER, INDOOR AC, PANEL	1.7	<p>GROUND FLOOR ,POWER, INDOOR AC, PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 125A MCCB, 16kA, TPN /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER)</p> <p>Potential Bus/Busbar 1 set - 125A TPN+E 91E Aluminium busbar,Insulated with heat</p>	1	No.

			shrinkable sleeves		
			Feeder section/Outgoing :		
			GROUND FLOOR PDB-1 A WING-1 No. -- 25A TPN RCBO 16kA,		
			GROUND FLOOR PDB-1 B WING-1 No. -- 25A TPN RCBO 16kA,		
			GROUND FLOOR PDB-1 C WING-1 No. -- 25A TPN RCBO 16kA,		
			GROUND FLOOR PDB-1 D WING-1 No. -- 25A TPN RCBO 16kA,		
			CAFETERIA PDB -1 No. --25A TPN RCBO 16kA,		
			KITCHEN PDB -1 No. -- 100A TPN MCCB 16kA,		
			RECREATION AREA PDB-1 No. --16A TPN RCBO 16kA,		
			SPARE -2 No. -- 25A TPN RCBO 16kA,		
			SPARE -1 No. -- 16A TPN RCBO 16kA,		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
75	UPS INCOMING PANEL	1.8	UPS INCOMING PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		
			Control Unit/ Incomer- 1 No. - 800A ACB, 16kA,TPN /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,		
			Potential Bus/Busbar 1 set - 800A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			160KVA UPS -1 - 1 No. -- 250A TPN MCCB 16kA, TPN/TM with O/C,S/C		
			160KVA UPS- 2 - 1 No. -- 250A TPN MCCB 16kA, TPN /TM with O/C,S/C		
			160KVA UPS- 3 - 1 No. -- 250A TPN MCCB 16kA, TPN /TM with O/C,S/C		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
76	UPS POWER DISTRIBUTION PANEL	1.9	UPS POWER DISTRIBUTION PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		

			<p>Control Unit/ Incomer- 3 No. - 250A MCCB, 16kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 800A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>WING A-B UPS BUSDUCT - 1 No. -- 400A TPN MCCB 16kA, TPN /MP with O/C,S/C</p> <p>WING C-D UPS BUSDUCT - 1 No. -- 400A TPN MCCB 16kA, TPN /MP with O/C,S/C</p> <p>GROUND FLOOR UPS DB - 1 No. -- 40A TPN RCBO 16kA,</p> <p>SERVER,BMS,FIRE CONTROL ROOM UPS POWER -1 No.-- 63A TPN RCBO 16kA,</p> <p>HUB ROOM UPS POWER -1 No.-- 16A TPN RCBO 16kA,</p> <p>SPARE -1 No. -- 63A TPN RCBO 16kA,</p> <p>SPARE -1 No. -- 400A TPN MP MCCB 16kA, O/C,S/C</p> <p>SPARE -1 No. -- 40A TPN RCBO 16kA,</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
77	AC VRV,VENTILATION & EX LIGHT PANEL	1.10	<p>AC VRV,VENTILATION & EX LIGHT PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity , Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. Or as directed etc.</p> <p>Control Unit/ Incomer- 1 No. - 2000A ACB, 16kA, FP /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 2000A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>EXTERNAL LIGHTING - 1 No. -- 160A TPN MCCB 16kA, TPN /TM with O/C,S/C & BMS COMPATIBLE METER</p>	1	No.

			GROUND FLOOR AC ,VRV & ODU PANEL 1 FOR A & B WING, 1 No. --125A TPN MCCB 16kA, TPN/MP with O/C,S/C		
			GROUND FLOOR AC ,VRV & ODU PANEL 1 FOR C & D WING, 1 No. --100A TPN MCCB 16kA, TPN/MP with O/C,S/C		
			FIRST FLOOR AC ,VRV & ODU PANEL 1 , 1 No. --315A TPN MCCB 16kA, TPN/MP with O/C,S/C		
			GROUND FLOOR VENTILATION PANEL 1 No. --40A TPN MCCB 16kA, TPN/TM with O/C,S/C		
			WING A-B AC, VENTILATION BUS DUCT 1 No. -- 630A TPN MCCB 16kA, TPN/TM with O/C,S/C		
			WING C-D AC,VENTILATION BUS DUCT 1 No. - - 630A TPN MCCB 16kA, TPN/TM with O/C,S/C		
			BASEMENT FLOOR Exhaust Air,FRESH AIR FAN,EXHAUST AIR JET FAN PANEL 1 No. --315A TPN MCCB 16kA, TPN/TM with O/C,S/C		
			SPARE -1 No. -- 315A TPN MCCB ,MP 16kA, O/C,S/C		
			SPARE -1 No. -- 160A TPN MCCB,TM 16kA, O/C,S/C		
			SPARE -1 No. -- 630A TPN MCCB,MP 16kA, O/C,S/C		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
78	2ND FLOOR A-B WING VENTILATION PANEL	1.11	2ND FLOOR A-B WING VENTILATION PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 4 No. -- 25A TPN RCBO 10kA, 3 No. -- 25A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS	1	No.
79	2ND FLOOR C-D WING VENTILATION PANEL	1.12	2ND FLOOR C-D WING VENTILATION PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,	1	No.

			Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN		
			Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			4 No. -- 25A TPN RCBO 10kA,		
			3 No. -- 25A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
80	3RD FLOOR A-B WING AC DB PANEL	1.13	3RD FLOOR A-B WING AC DB PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		
			Control Unit/ Incomer- 1 No. - 32A RCBO, 10kA, TPN		
			Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			10 No. -- 25A TPN RCBO 10kA,		
			3 No. -- 25A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
81	3RD FLOOR A-B WING VENTILATION PANEL	1.14	3RD FLOOR A-B WING VENTILATION PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		
			Control Unit/ Incomer- 1 No. - 25A MCCB, 10kA, TPN /TM		
			Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			4 No. -- 25A TPN RCBO 10kA,		
			3 No. -- 25A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
82	3RD FLOOR C-D	1.15	3RD FLOOR C-D WING AC DB PANEL	1	No.

	WING AC DB PANEL		<p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. -32A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>10 No. -- 25A TPN RCBO 10kA,</p> <p>4 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
83	3RD FLOOR C-D WING VENTILATION PANEL	1.16	<p>3RD FLOOR C-D WING VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>4 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
84	4TH FLOOR A-B WING VENTILATION PANEL	1.17	<p>4TH FLOOR A-B WING VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>4 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p>	1	No.

			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
85	4TH FLOOR C-D WING VENTILATION PANEL	1.18	<p>4TH FLOOR C-D WING VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 32A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>8 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
86	5TH FLOOR A-B WING AC DB PANEL	1.19	<p>5TH FLOOR A-B WING AC DB PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 32A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>10 No. -- 25A TPN RCBO 10kA,</p> <p>4 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
87	5TH FLOOR VENTILATION PANEL	1.2	<p>5TH FLOOR VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 100A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 100A TPN+E 91E Aluminium busbar,Insulated with heat</p>	1	No.

			shrinkable sleeves		
			Feeder section/Outgoing :		
			4 No. -- 32A TPN RCBO 10kA,		
			7 No. -- 25A TPN RCBO 10kA,		
			2 No. -- 25A TPN RCBO 10kA, SPARE		
			2 No. -- 32A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
88	5TH FLOOR C-D WING AC DB PANEL	1.21	5TH FLOOR C-D WING AC DB PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		
			Control Unit/ Incomer- 1 No. - 32A MCCB, 10kA, TPN /TM		
			Potential Bus/Busbar 1 set - 32A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			6 No. -- 25A TPN RCBO 10kA,		
			3 No. -- 25A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
89	5TH FLOOR C-D WING AC DB PANEL	1.22	5TH FLOOR C-D WING AC DB PANEL	1	No.
			Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,		
			Control Unit/ Incomer- 1 No. - 100A RCBO, 10kA, TPN		
			Potential Bus/Busbar 1 set - 100A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
			Feeder section/Outgoing :		
			4 No. -- 32A TPN RCBO 10kA,		
			7 No. -- 25A TPN RCBO 10kA,		
			2 No. -- 25A TPN RCBO 10kA, SPARE		
			1 No. -- 32A TPN RCBO 10kA, SPARE		
			As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
90	6TH LOWER	1.23	6TH LOWER FLOOR A-B WING AC DB	1	No.

	FLOOR A--B WING AC DB PANEL		<p>PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 250A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 250A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>9 No. -- 25A TPN RCBO 10kA,</p> <p>11 No. --40A TPN RCBO 10kA,</p> <p>2 No. -- 63A TPN RCBO 10kA,</p> <p>2 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>3 No. -- 40A TPN RCBO 10kA, SPARE</p> <p>1 No. -- 63A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
91	6TH LOWER FLOOR A-B VENTILATION PANEL	1.24	<p>6TH LOWER FLOOR A-B VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>3 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
92	6TH LOWER FLOOR C-D WING AC DB PANEL	1.25	<p>6TH LOWER FLOOR C-D WING AC DB PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 200A MCCB, 10kA, TPN /TM</p>	1	No.

			<p>Potential Bus/Busbar 1 set - 200A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>15 No. -- 25A TPN RCBO 10kA,</p> <p>1 No. -- 40A TPN RCBO 10kA,</p> <p>1 No. -- 63A TPN RCBO 10kA,</p> <p>2 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>3 No. -- 40A TPN RCBO 10kA, SPARE</p> <p>1 No. -- 63A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
93	6TH LOWER FLOOR C--D VENTILATION PANEL	1.26	<p>6TH LOWER FLOOR C--D VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>3 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
94	6TH UPPER FLOOR A--B WING AC DB PANEL	1.27	<p>6TH UPPER FLOOR A--B WING AC DB PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>2 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>1 No. -- 63A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.

95	6TH UPPER FLOOR A-B VENTILATION PANEL	1.28	<p>6TH UPPER FLOOR A-B VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>2 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
96	6TH UPPER FLOOR C-D WING AC DB PANEL	1.29	<p>6TH UPPER FLOOR C-D WING AC DB PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A MCCB, 10kA, TPN /TM</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>2 No. -- 25A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>1 No. -- 63A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
97	6TH UPPER FLOOR C--D VENTILATION PANEL	1.3	<p>6TH UPPER FLOOR C--D VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 25A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 25A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p>	1	No.

			Feeder section/Outgoing : 2 No. -- 25A TPN RCBO 10kA, 3 No. -- 25A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
98	TERRACE FLOOR A--B WING ODU PANEL AC DB PANEL	1.31	TERRACE FLOOR A--B WING ODU PANEL AC DB PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Control Unit/ Incomer- 1 No. - 160A MCCB, 10kA, TPN /TM Potential Bus/Busbar 1 set - 160A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 4 No. -- 40A TPN RCBO 10kA, 3 No. -- 40A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS	1	No.
99	TERRACE FLOOR A-B VENTILATION PANEL	1.32	TERRACE FLOOR A-B VENTILATION PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Control Unit/ Incomer- 1 No. - 63A RCBO, 10kA, TPN Potential Bus/Busbar 1 set - 63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 12 No. -- 25A TPN RCBO 10kA, 4 No. -- 25A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS	1	No.
100	TERRACE FLOOR C-D WING AC DB PANEL	1.33	TERRACE FLOOR C-D WING AC DB PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,	1	No.

			Control Unit/ Incomer- 1 No. - 160A MCCB, 10kA, TPN /TM Potential Bus/Busbar 1 set - 160A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 4 No. -- 40A TPN RCBO 10kA, 3 No. -- 40A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS		
101	TERRACE FLOOR C-D VENTILATION PANEL	1.34	TERRACE FLOOR C-D VENTILATION PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Control Unit/ Incomer- 1 No. - 63A RCBO, 10kA, TPN Potential Bus/Busbar 1 set - 63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 12 No. -- 25A TPN RCBO 10kA, 4 No. -- 25A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS	1	No.
102	GROUND FLOOR A-B WING AC VRV & VENTILATION PANEL	1.35	GROUND FLOOR A-B WING AC VRV & VENTILATION PANEL Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Control Unit/ Incomer- 1 No. -125A RCBO,10kA, TPN Potential Bus/Busbar 1 set - 125A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves Feeder section/Outgoing : 7 No. -- 25A TPN RCBO 10kA, 2 No. -- 40A TPN RCBO 10kA, 1 No. -- 63A TPN RCBO 10kA, 2 No. -- 25A TPN RCBO 10kA, SPARE 1 No. -- 40A TPN RCBO 10kA, SPARE 1 No. -- 63A TPN RCBO 10kA, SPARE As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS	1	No.

103	GROUND FLOOR C D WING AC VRV & VENTILATION PANEL	1.36	<p>GROUND FLOOR C D WING AC VRV & VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. -100A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 100A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>9 No. -- 25A TPN RCBO 10kA,</p> <p>4 No. -- 40A TPN RCBO 10kA,</p> <p>2 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>2 No. -- 40A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
104	FIRST FLOOR AC VRV & VENTILATION PANEL	1.37	<p>FIRST FLOOR AC VRV & VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. -315A RCBO, 10kA, TPN</p> <p>Potential Bus/Busbar 1 set - 315A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>10 No. -- 25A TPN RCBO 10kA,</p> <p>10 No. -- 40A TPN RCBO 10kA,</p> <p>3 No. -- 25A TPN RCBO 10kA, SPARE</p> <p>3 No. -- 40A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
105	GROUND FLOOR VENTILATION PANEL	1.38	<p>GROUND FLOOR VENTILATION PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT DB panel Construction- Wall mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, tressed for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. -40A RCBO, 10kA, TPN</p>	1	No.

			<p>Potential Bus/Busbar 1 set - 40A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>9 No. -- 25A TPN RCBO 10kA, 1 No. -- 32A TPN RCBO 10kA, 1 No. -- 40A TPN RCBO 10kA, 2 No. -- 25A TPN RCBO 10kA, SPARE 1 No. -- 32A TPN RCBO 10kA, SPARE 1 No. -- 40A TPN RCBO 10kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>		
106	LIFT PANEL	1.39	<p>LIFT PANEL</p> <p>Supply,installation, testing & commissioning etc. of LT panel Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity , Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. Or as directed etc.</p> <p>Control Unit/ Incomer- 1 No. - 400A MCCB,16kA, TPN /MP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p>Potential Bus/Busbar 1 set - 400A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</p> <p>Feeder section/Outgoing :</p> <p>16 No. -- 63A TPN RCBO 16kA, 4 No. -- 63A TPN RCBO 16kA, SPARE</p> <p>As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS/DB ELECTRICALS/PRATIK SYSTEMS</p>	1	No.
A.3	INTERNAL COMMON AREA WORK	A.3			
	LT CABLE / LUGS /GLANDS:-	1.2			

107	1.1 kV grade stranded Cu conductor, XLPE insulated, extruded FRLS0H	A	1.1 kV grade stranded Cu conductor, XLPE insulated, extruded FRLS0H Inner sheathed and outer sheathed Extruded FRLS0H, galvanised steel round armoured cables. As directed by Engineer in charge Make- RR / FINOLEX / POLYCAB		
108		1.2.1	Supplying, erecting & terminating of FRLS0H armoured cable 2 core 4 sq mm copper cable As directed by Engineer in charge	105	M
109		1.2.2	Supplying, erecting & terminating of FRLS0H armoured cable 2 core 6 sq. mm. copper cable. As directed by Engineer in charge	105	M
110		1.2.3	Supplying, erecting & terminating of FRLS0H armoured cable 2 core 10 sq. mm. copper cable. As directed by Engineer in charge	105	M
111		1.2.4	Supplying, erecting & terminating of FRLS0H armoured cable 4 core 4 sq. mm. copper cable. As directed by Engineer in charge	7415	M
112		1.2.5	Supplying, erecting & terminating of FRLS0H armoured cable 4 core 6 sq. mm. copper cable. As directed by Engineer in charge	9600	M
113		1.2.6	Supplying, erecting & terminating of FRLS0H armoured cable 4 core 10 sq. mm. copper cable. As directed by Engineer in charge	5700	M
114		1.2.7	Supplying, erecting & terminating of FRLS0H armoured cable 4 core 16 sq. mm. copper cable. As directed by Engineer in charge	550	M
115	1.1 kV grade stranded Al conductor, XLPE insulated, extruded FRLS0H	B	1.1 kV grade stranded Al conductor, XLPE insulated, extruded FRLS0H Inner sheathed and outer sheathed Extruded FRLS0H, galvanised steel round armoured cables. As directed by Engineer in charge Make- RR / FINOLEX / POLYCAB		
116		1.2.8	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 16sq. mm. aluminium cable. As directed by Engineer in charge	165	M
117		1.2.9	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 25 sq. mm. aluminium cable. As directed by Engineer in charge	50	M
118		1.2.10	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 35 sq. mm. aluminium cable. As directed by Engineer in charge	300	M
119		1.2.11	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 50 sq. mm. aluminium cable. As directed by Engineer in charge	220	M
120		1.2.12	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 70 sq. mm. aluminium cable. As directed by Engineer in charge	110	M
121		1.2.13	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 95 sq. mm. aluminium cable. As directed by Engineer in charge	110	M
122		1.2.14	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 120 sq. mm. aluminium cable. As directed by Engineer in charge	330	M
123		1.2.15	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 150 sq. mm. aluminium cable. As directed by Engineer in charge	165	M

124		1.2.16	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 185 sq. mm. aluminium cable. As directed by Engineer in charge	600	M
125		1.2.17	Supplying, erecting & terminating of FRLS0H armoured cable 3½ core 240 sq. mm. aluminium cable. As directed by Engineer in charge	220	M
126		1.2.18	Supplying, erecting & terminating of FRLS0H armoured cable 3½core 300 sq. mm. aluminium cable. As directed by Engineer in charge	2000	M
127	WIRE / POINT WIRING :-	1.3			
128			Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLSZH insulated copper conductor wire in surface/ recessed hot dipped GI conduit as required. As directed by Engineer in charge Make (WIRE) - RR / FINOLEX / ANCHOR / POLYCAB / HAVELS Make (CONDUIT) - BEC / VIMCO / JINDAL		
129		1.3.4	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire in 20mm gi Conduit	8800	M
130		1.3.5	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire in 20mm gi Conduit	6600	M
131		1.3.6	2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25mm giConduit	3300	M
132		1.3.7	Supplying & erecting mains with 2x1.5 sq.mm. and earth wire 1.5 sq.mm ZHFR PVC copper wire, in existing raceways/conduit As directed by Engineer in charge. Make - RR / FINOLEX / POLYCAB /HAVELLS	49544	M
133		1.3.8	Supplying & erecting mains with 2x2.5 sq.mm. and earth wire 1.5 sq.mm ZHFR PVC copper wire in existing raceways/conduit As directed by Engineer in charge. Make - RR / FINOLEX / POLYCAB /HAVELLS	50149	M
134		1.3.9	Supplying & erecting mains with 2x4 sq.mm. and earth wire 2.5 sq.mm ZHFR PVC copper wire in existing raceways/conduit, As directed by Engineer in charge. Make - RR / FINOLEX / POLYCAB /HAVELLS	5500	M
135	CABLE TRAY :-	1.4			
136	perforated type cable tray	1.4.5	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	300	M
137	perforated type cable tray	1.4.6	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 200 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	200	M

138	perforated type cable tray	1.4.7	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	200	M
139	perforated type cable tray	1.4.8	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 400 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	200	M
140	perforated type cable tray	1.4.9	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 500 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner.As directed by Engineer in charge. Make - PROFAB / LEGRAND / INDANA	200	M
141	ACCESSORIES SUPPLY & FIXING	1.5			
142	PIR SWITCH SENSOR FOR LIGHT	1.5.1	Supplying installation testing and commissioning of PIR SWITCH SENSOR FOR LIGHT ,As directed by Engineer in charge Make- SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	50	EACH
143	DUAL CHANNEL PIR SENSOR FOR LIGHT & VAV BOX	1.5.2	Supplying installation testing and commissioning of DUAL CHANNEL PIR SENSOR FOR LIGHT & VAV BOX ,As directed by Engineer in charge, Make- SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	500	EACH
144	TIMER FOR LIGHT	1.5.3	Supplying installation testing and commissioning of TIMER FOR LIGHT , As directed by Engineer in charge, Make- SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	145	EACH
145	DAY LIGHT LUX LEVEL SENSOR FOR LIGHT	1.5.4	Supplying installation testing and commissioning of DAY LIGHT LUX LEVEL SENSOR FOR LIGHT , As directed by Engineer in charge, Make- SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS	275	EACH
146	RACEWAY	1.5.5	Supplying installation testing and commissioning of Raceway 1.5MM THICK GI with cover for power /tel/ data wiring including necessary bends, T's, fixing screws, etc. fixed to wall /ceiling etc.As directed by Engineer in charge, Make- OBO / LEGRAND		
147		a	300X40MM	1650	Rmt
148		b	225X40MM	1650	Rmt
149		c	150X40MM	1980	Rmt
150		d	100X40MM	1650	Rmt
151		e	75X40MM	1320	Rmt
152		f	50X40MM	1650	Rmt
153		g	150X25MM	1320	Rmt
154		h	100X25MM	2200	Rmt
155		i	75X25MM	1980	Rmt

156		j	50X25MM	1980	Rmt
157	JUNCTION BOX	1.5.6	Supplying installation testing and commissioning of GI Junction box with cover for power /tel/ data wiring including necessary screws, etc. fixed to wall /ceiling etc. As directed by Engineer in charge, Make- OBO / LEGRAND		
158		a	400X400X65	220	Nos.
159		b	300X300X65	385	Nos.
160		c	225X225X65	440	Nos.
161		d	150X150X65	880	Nos.
162	SWITCH & SOCKET OUTLETS	1.6			
163		1.6.5	Providing plug point with 3 phase industrial socket having CRCA sheet metal enclosure with 30A, 3 pin plug and earthsocket and 30A, 3 pin, plug top with 30A, triple pole RCBO, mains,switchgears with continuous earth wire upto three days. As directed by Engineer in charge.As directed by Engineer in charge. Make - ANCHOR / PANASONIC- ROMA PLUS / LEGRAND - MYRIUS / POLYCAB - LIVANA / L & T / HAVELLS	32	EACH
164	HDPE PIPE/CONDUIT:-	1.9			
165		1.9.11	Supply & laying I.S.I. mark 'B' class GI Pipe for surface / under ground cable protection As directed by Engineer in charge Make - BEC / VIMCO / JINDAL		
166			20 mm dia.	900	RMtr.
167			25 mm dia.	900	RMtr.
168	LIGHTING FIXTURE	A.4	LIGHTING FIXTURE		
169	INDOOR SQUARE / RECTANGLE CEILING LIGHT(SURFACE MOUNTED)	1.3.16	Supplying and erecting square Shaped CRCA /die-cast aluminium powder coated housing LED panel light (slim edge-lit) 600x600mm suitable for 36 W-40W polystyrene diffuser having system lumens output of Min 4200 Lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.. As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	265	Each

170	INDOOR SQUARE / RECTANGLE CEILING LIGHT(SURFACE MOUNTED)	1.3.17	Supplying and erecting rectangular shaped CRCA /die-cast aluminium powder coated housing LED panel (slim edge-lit) 300x1200mm of suitable for 36 to 40 W polystyrene diffuser having system lumens output of Min 4200 Lumens, min. efficacy of 120 lumen/W, CRI>80,CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.. As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	265	Each
171	LED MIRROR LIGHT	1.6.1	Supplying of LED mirror light with integrated driver including 7W to 9W lamp having lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K & polycarbonate housing and opal diffuser to be fixed above mirror or as required on clamps complete. As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	154	Each
172	LED MIRROR LIGHT	1.6.2	Supplying of LED mirror light with integrated driver including 14W to 18W lamp having lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K & polycarbonate housing and opal diffuser to be fixed above mirror or as required on clamps complete. As directed by Engineer in charge. Make- PHILIPS / BAJAJ /HAVELLS / PANASONIC / WIPRO	12	Each
173	160 KVA ONLINE UPS SYSTEMS	A5. 1.1	Supply,installation, testing & commissioning etc. of 160 KVA ONLINE UPS SYSTEMS , As directed by Engineer in charge. Make- APC /SCHNEIDER/ EATON / LEGRAND / NEOWATT / DELTA / SOCOMEC / EMERSON-VERTIV	3	nos
174			Parallel configuration		
175			Model : EASY 3M		
176			Input : Three Phase - 415 VAC		
177			Output : Three Phase - 415 VAC		
178			IGBT Based Technology		
179			96% Efficiency		
180			Modbus Card for RS 485 Connectivity		
181		1.2	Battery Back up Time - 15 Minutes Backup on 160kva load	132	nos
182			12V / 200 AH SMF Battery (44 Battery with each UPS)		
183			Rocket / Exide / Quanta make		
184		1.3	SNMP Card	3	nos
185		1.4	Battery DC Breaker with UV / OV Coil with Signal Cable for Battery & UPS Protection	3	nos
186		1.5	MS Powder Coated Open Battery Rack for Mounting Batteries	3	Set
187		1.6	Consumable Electronic Item - Battery Interlinks X 44Nos - Univiyin Wires	3	Set
188		1.7	Consumable Electronic Item - Cable (UPS to Battery - 30 mtr max)	3	Set

189		1.8	UPS Base Frame	3	Set
190		1.9	Parallel Kit	3	nos
191		1.10	Installation Charges	3	Set
192	30 KVA GLOBE MAKE INVERTER SYSTEMS	A.6.1.1	Supply,installation, testing & commissioning etc. of 30 KVA GLOBE MAKE INVERTER SYSTEMS As directed by Engineer in charge. Make - SUKAM / KEVIN / MICROTECH / DELTA / EMERSON-VERTIV/LEGRAND	1	Nos
193			Stand alone configuration		
194			Model : Sinewave		
195			Input : Three Phase - 415 VAC		
196			Output : Three Phase - 415 VAC		
197		1.2	Battery Back up Time – 15 Minutes Backup	30	Nos
198			12V / 65 AH SMF Battery (30 Battery with each Inverter)		
199			Rocket / Exide / Quanta make		
200		1.3	MS Powder Coated Open Battery Rack for Mounting Batteries	1	Set
201		1.4	Consumable Electronic Item - Battery Interlinks X 30Nos - Univiyin Wires	1	Set
202		1.5	Consumable Electronic Item - Cable	1	Set
203		1.6	Inverter Base Frame	1	Set
204		1.7	Installation Charges	1	Set
205	Air Termination AS PER IS-IEC 62305-3 (Make-OBO/JMV/ELECTRO POWER/STEMO N	A.7			
206	8 mm Aluminum Round Conductor	1.1.1	Supply, installation, testing & commissioning of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305) ,	813	Nos
207	holder	1.1.2	Supply, installation, testing & commissioning holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance.	813	Nos
208	Polyamide roof cable holder for flat roof	1.1.3	Supply, installation, testing & commissioning OF Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance.	100	Nos
209	cross universal connector	1.1.4	Supply, installation, testing & commissioning of Providing of cross universal connector: For T and cross connection,to route vertical down conductor /mesh formation made of hot dipped galvanised iron with necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts .	130	Nos
210	expansion piece with connector	1.1.5	Supply, installation, testing & commissioning of Providing of expansion piece with connector: For equalising temperature related length changes. Necessary on conductors length over 20 meters. For round conductor Rd 8/ALU.	80	Nos

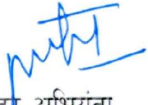
211	T cross and parallel connectors	1.1.6	Supply,installation, testing & commissioning of Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Conforms to the requirements according to DIN VDE 0185-305 (IS-IEC 62305)(2nos/expansion piece).	40	Mtr
212	Vertical air terminal with accessories	1.1.7	Supply,installation, testing & commissioning of Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC -62305 part-3 10 mm aluminium rod : Meets the technical specification according to DIN EN 50164-2 (VDE 0815 part 202). Meets the requirement of VDE0185/305(IS/IEC 62305) 4 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load.	16	Nos
213	Fang Fix system 16 kg	1.1.8	Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and tested upto 100KA lightning current .	16	Nos
214	Stand for Fang Fix system	1.1.9	Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and tested upto 100KA lightning current .	16	Nos
215	Vertical air terminal with accessories	1.1.10	Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC -62305 part-3 10 mm aluminium rod : Meets the technical specification according to DIN EN 50164-2 (VDE 0815 part 202).Meets the requirement of VDE0185/305(IS/IEC62305)2 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load. OBO Type No. 101 VL2000 (5401 98 3)	16	Nos
216	Rod holder	1.1.11	Rod holder suitable to fit with 16mm dia rod fixing at the wall.	48	Mtr
217	Down conductor & Ring system	1.2			
218	8 mm Aluminum Round Conductor	1.2.1	Supply,installation, testing & commissioning of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305) ,	1200	Mtr
219	Roof conductor holder for parapet	1.2.2	Supply,installation, testing & commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance.	1200	Nos
220	Galvanised Steel Flat 30X3 mm thickness from earth electrode	1.2.3	Supply,installation, testing & commissioning of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor shall be of Hot Dipped & Cross sectional area of 90mm square According to DIN EN 50164-2 (VDE 0185 part 202) Meets the requirement of VDE0185/305(IS-IEC 62305) Zinc coating: 500 g/m square (Approx :70 micron coating) Should be tested and used exclusively for lightning protection earthing system and ring equipotential bonding.	2520	Mtr
221	diagonal clamp	1.2.4	Supply,installation, testing & commissioning of diagonal clamp suitable for FL 30. Installed with 2 hexagonal bolts.	2520	Nos

222	Cross connector for earth fixing poin	1.2.5	Supply,installation, testing & commissioning of Cross connector for earth fixing point suitable for FL 30. Installed with 2 hexagonal bolts.	190	Nos
223	earth fixed point	1.2.6	supply, installation , testing & commissioning of earth fixed point: Made of Stainless Steel, grade 316L. Connection to earthing systems, air terminals and reinforcement. Contact plate: 79 mm diameter, made of rustproof stainless steel (V4A). Clamping bolt 10mm diameter, rustproof (V2A). Including plastic cover for simple installation.	190	Nos
224	cross connector for reinforcement	1.2.7	Providing of cross connector for reinforcement, Flat galvanized steel and earth fixed point. This connects earth fixed point to reinforcement. Installed with 2 hexagonal bolts M8x 20 (F).	190	Nos
225	Vertical earthing system	1.3			
226	Galvanised Steel Flat 30X3 mm thickness from earth electrode	1.3.1	Supply of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor shall be of Hot Dipped & Cross sectional area of 90mm square According to DIN EN 50164-2 (VDE 0185 part 202) Meets the requirement of VDE0185/305(IS-IEC 62305) Zinc coating: 500 g/m square (Approx :70 micron coating) Should be tested and used exclusively for lightning protection earthing system and ring equipotential bonding.	284	Mtr
227	diagonal clamp	1.3.2	Providing of diagonal clamp suitable for FL 30. Installed with 2hexagonal bolts.	284	Nos
228	Cross connector for Flat	1.3.3	Providing of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate.	45	Nos
229	DATA/ VOICE SYSTEM				
230	FIBER OPTIC EQUIPMENT & ACCESSIOERS:-	1.3			
231	Media Convertor.	1.3.4	Supply, Installation, Testing & Commissioning of Media Convertor. MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	4	EACH
232	Single Mode Fiber Optic Connector	1.3.5	Supply, Installation,Testing & Commissioning of Single Mode Fiber Optic Connector MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	3	EACH
233	Light Interface Unit (LIU)	1.3.7	Supply, Installation,Testing & Commissioning of Light Interface Unit (LIU) MAKE: - NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	11	EACH
234	POE SWITCH & RACKS :-	1.4			
235	16 ports 10/100/1000 with 2 combo ports PoE switch	1.4.3	Supply, Installation, Testing & Commissioning of 16 ports 10/100/1000 with 2 combo ports PoE switch with installation. Make:- NETGEAR GSM / ZYXEL /DIGISOL /LEGRAND /CISCO	13	EACH

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/२३२१ /प्र.क्र. ०३/२०३३(९)/२०२३

दि. ९ / ८ / २०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अतर्गत सजावट व इतर अनुषंगीक कामे करणे. (IoT cloud Based SCADA System Control)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

Subject: IoT cloud Based SCADA System Control					
SR. NO.	ITEM	REFF ITEM	Description	QTY	UNIT
	IoT /CLOUD based BUILDING AUTOMATION SYSTEM	1	IoT /CLOUD based BUILDING AUTOMATION SYSTEM: SCADA Room Work Staion		
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.		
1	BMS Computer System:		BMS Computer System: - Xeon Processor (Latest Generation) - 8 GB RAM, 2 TB hard disc - 3½" disc drive, DVD writer, compatible CDROM 32" flat screen, 1200 2 800, 256 colours (Full HD) Windows 10 and shall have MS-Office installedc	1	Nos
2	IoT BMS Software & Licenece	2	IoT BMS Software & Licenece		
3			IoT BMS System Software : Cloud License & Mobile Apps - a.Building Automation/ SCADA System Control(If Software is in Cloud and hence do not require on premise Sever and can be accessed from any Location from any Device like Laptop , Mobile Phone , iPad etc. Cloud server price included in software.)(Cloud License & Mobile Apps -Building Automation. Software Should have third party user logins provision)	1	Lot.
4	Smart Central Controller with I/O module	3	Smart Central Controller with I/O module		

5		3.1	i) Central Controlling Unit (CCU) : For SCADA System Control + Aggregation cloud gateway for BMS equipment integration in a building provided. a. 8" / 10 "inch tablet - Android operating system tablet, 7"inch screen, 1280x800 resolution, 2.1GHz Quad Core processor, 7 hours active battery life b. CM Board - Control Mote with multiple Relays, Analogue Inputs, Analogue Output, RS485, ethernet input c. Room Temperature & Humidity Sensor d. PVC Back Box for CCU & RTH e. Enclosure Panel (Internet/Wifi connection will be provided by third party at CCU Controller to enable communication with Cloud Servers.		
6		3.1.1	ii) Controller with IO Modules & Panel Powered by 24VAC/DC	1	Lot
7		3.1.2	Annual Subscription charges for maintaining SIM and CMS service for (Internet/Wifi connection at CCU Controller to enable communication with Cloud Servers.	1	Lot
8	Smart Controller for Integration (Open Protocol Software Integration)	4	Smart Controller for Integration (Open Protocol Software Integration)		
9		4.1	Central Controlling Unit (CCU) : Aggregation cloud gateway for BMS equipment integration in a building provided. a. 8" / 10 "inch tablet - Android operating system tablet, 7"inch screen, 1280x800 resolution, 2.1GHz Quad Core processor, 7 hours active battery life b. CM Board - Control Mote with multiple Relays, Analogue Inputs, Analogue Output, RS485, ethernet input c. Room Temperature & Humidity Sensor d. PVC Back Box for CCU & RTH e. Enclosure Panel	1	Lot
10	Conduiting , Wiring and cabling Including Following Items	5	Conduiting, Wiring and cabling Including Following Items		
11		5.1	SMPS 24V for CCU, Modules (Central Controlling Unit)	1	SET
12		5.2	RS485 to USB Converter	1	SET
13	CABLES	6	CABLES		
14		6.1	Supply and laying Control Cables of following Armoured FRLS polyethylene insulated PVC sheathed overall the shielded twisted multistranded annealed tinned copper as per specifications ,as directed ,complete , etc., to match BMS as required at site.conductor cable CONTROL CABLE MAKE: - RR/FINOLEX/POLYCAB LV CABLES MAKE:- SYSTMIX/MOLEX/LEGRAND/D-LINK/CLIPSAL/AMP NET CONNECT		

15	FRLS Cable	6.1.1	2C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured (0.9mmGI), FRLS Cable.	500	RMT
16	FRLS Cable	6.1.2	2 Core 1.5Sq.mm Communication Armoured (0.9mmGI), FRLS Cable.	500	RMT
17	FRLS Cable	6.1.3	4C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured(0.9mmGI), FRLS Cable	900	RMT
18	FRLS Cable	6.1.4	6C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured (0.9mmGI), FRLS Cable.	0	RMT
19	FRLS Cable	6.1.5	8C x 1.5sqmm, ATC Conductor, Polyethylene insulaton, Shielded, Armoured (0.9mmGI), FRLS Cable.	0	RMT
20	FRLS Cable	6.1.6	2 Core 1.5Sq.mm RS485 Communication Armoured (0.9mmGI), FRLS Cable.	2500	RMT

अटी व शर्ती:

- १) सीलबंद निविदा दि.१०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि.२१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करुन दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजुर अथवा ना मंजुर करण्याचा हक्क पनवेल महानगरपालिकेने राखुन ठेवला आहे.



शहर अभियंता

पनवेल महानगरपालिका

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प्रत माहितीस्तव —

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे. (SECURITY ITEMS)	१०/०८/२०२३ ते २१/०८/२०२३

Specification


SR. NO.	ITEM	REFF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
			NOTE:- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTAINANCE IN ALL RESPECT		
			SECURITY ITEMS BOQ		
1	HAND HELD METAL DETECTOR	1	Supply of Hand held metal detector to detect suspect items that contain metallic component weapons/illite contraband MAKE :- PANASONIC /JHONSON CONTROLS / PMS/ SISS/HIKVISION	10	Nos
2	WALK THROUGH METAL DETECTOR WITH 32 ZONE DETECTION	2	Supply, Installation, Testing & Commissioning of Walk-Through metal detector with 32 Zone detection. MAKE :- PANASONIC /JHONSON CONTROLS / PMS/ SISS/HIKVISION	6	Nos
3	X- RAY BAGGAGE SCANNER	3	Supply, Installation, Testing & Commissioning of X- ray baggage scanner MAKE :- PANASONIC /JHONSON CONTROLS / PMS/ SISS/HIKVISION	1	No.
4	Boom Barrier 6 mtr long	4	Supply, Installation, Testing & Commissioning of Boom Barrier 6 mtr long MAKE :- LEAPTOR/JHONSON CONTROLS / PMS/ SISS/HIKVISION	2	Nos.

अटी व शर्ती:

- सीलबंद निविदा दि. १० / ०८ / २०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.

- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) सर्व वस्तुंसाठी वरील दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता
पनवेल महानगरपालिका

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दि. ९/८/२०२३

प्रत माहितीस्तव —

१. प्रसिध्दीकरीता २. माहिती फलक करीता

पनवेल महानगरपालिका

जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भुखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भुखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे. (SOLAR PV PANEL)	१०/०८/२०२३ ते २१/०८/२०२३

Specification

SR. NO.	ITEM	REF ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
SOLAR PV PANEL					
			NOTE- ALL ITEM RATES SHOULD CONSIST OF DEFECT LIABILITY PERIOD (FOR ITEM NO. 1 FIVE YEARS & FOR ITEM NO. 2 TO 4 THREE YEARS) INCLUDING WARRANTY / GUARANTEE PERIOD & COMPREHENSIVE MAINTENANCE IN ALL RESPECT.		
		A.1	SOLAR PANEL		
1	ON-GRID Solar PV System / Plant consisting Solar PV Poly Crystalline Panel	1.1	Supplying, installing, testing and commissioning of 123.12Wp ON-GRID Solar PV System / Plant consisting Solar PV Poly Crystalline Panel (540-545Wp) X 228 Nos.) and 125 Kw Solar ON-GRID Inverter of similar capacity (THD<3%) with ,Solar pwer consumption meters,HDG (Hot dip galvanised) Mounting structure with civil work and foundation for Solar Pv Module (The Solar PV panels will be mounted on Ground floor Open Parking area),ATS for DG set protection /safety ,DC combiner/junction box,AC combiner / junction box,AC isolation box,AC/DC interconnecting cables,other accseries, interconnecting wires / cables up to solar ON GRID inverter, proper base plate,canopy box to house Inverter and necessary accessories i.e. ACDB/ DCDB ,MCB etc. wiring up to solar Inverter in casing and capping, display board, signboard, two distinct earthing, lightning arrester, liaisoning charges, remote monitoring system with maintaining card/chip for Five years including net charges for RMS System, complete up to net meter installation and export to the grid with Five year ON-SITE warranty and fully comprehensive maintenance contract as per Specification. The scope of work also includes procurement, testing, commissioning of net meter & generation meter as per MSEDCL norms.	1	LOT
2	FRLSOH armoured cable	1.3	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 150 sq. mm. aluminium cable. As directed by Engineer in charge	150	M

3	FRLSOH armoured cable	1.4	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 120 sq. mm. aluminium cable. As directed by Engineer in charge Make- RR / FINOLEX / POLYCAB/KEI	150	M
4	FRLSOH armoured cable	1.5	Supplying, erecting & terminating of FRLSOH armoured cable 3½ core 35 sq. mm. aluminium cable. As directed by Engineer in charge Make- RR / FINOLEX / POLYCAB/KEI	150	M

अटी व शर्ती:

- १) सीलबंद निविदा दि. १०/०८/२०२३ रोजी दुपारी ३.०० वाजेपर्यंत पनवेल महानगरपालिकेच्या बांधकाम विभागात स्विकारण्यात येतील.
- २) प्राप्त झालेल्या निविदा शक्यतो दि. २१/०८/२०२३ रोजी दुपारी ३.३० (शक्यतो) वाजता शहर अभियंता यांच्या दालनात उपस्थित ठेकेदार यांच्या समक्ष उघडण्यात येतील.
- ३) अटी व शर्ती युक्त निविदांचा विचार केला जाणार नाही.
- ४) अनु क्रं. १ करीता दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी पाच वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.
- ५) अनु क्रं. २ ते ४ मधील सर्व वस्तुंसाठी दर नमुद करताना, बोलीदार / डीलर / उत्पादक यांनी तीन वर्षांच्या दोष निवारण कालावधी साहित वारंटी / हमी आणि सर्व बाबतीत सर्वसमावेशक देखभाल याचा विचार करून दर देण्यात यावे.

प्राप्त निविदेतील १ अथवा सर्व निविदा कोणतेही कारण न देता मंजूर अथवा ना मंजूर करण्याचा हक्क पनवेल महानगरपालिकेने राखून ठेवला आहे.


शहर अभियंता

पनवेल महानगरपालिका

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प्रत माहितीस्तव -

१. प्रसिध्दीकरीता
२. माहिती फलक करीता