

Annexure1

SI No.	Description	Qty	Unit	Make
1	Main Panel			
i	<p>Supply and installation of Distribution Panel at Firestation (IP-65, 2mm CRGA GI Power Coated sheet, 450 mm Ground Clearance, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with two Incommer & one Buscoupler with protection.</p> <p>1. Incommer of MCCB 415V, 500A-2 No's 2. Bus Coupler of MCCB 415V, 500A-1 No 3. Outgoing Feeder MCCB-415V, 160A-5 No's 4. Outgoing Feeder MCCB -415V, 63A-6 No's 5. Outgoing Lighting Feeder (with 3-Ph Lighting Transformer 2000VA)-415V, 63A-2 No's 6. Multi function energy meter of 0-500A with CT, 0-500V rating as per make(L&T/Converse/ Rishabh / Secure)- 2 Nos at incomers 7. 4 Runs of Busbar & other power accessories as required to withstand- 500A , 500V</p>	1	Lot	MCCB/MCB- scheider,ABB, Siemens MFM- L&T/Converse/ Rishabh / Secure
2	Cable & Mains			
i	<p>Supply, laying & termination of 1100V grade XLPE armoured cable having sector / circular shaped aluminium conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554,</p> <p>a. 3.5C x 300 Sq.mm XLPE LT cables (Poly Cab/KEI/CCI/Universal) -400Meter</p> <p>Note: For Underground cable laying contractor should follow the procedure as per point No (iii) All accessoried like gland, lugs , few meters of cable tray/ GI pipe required to connect the underground cable with PDB inside building is considered in scope</p>	400	Meter	KEI/Polycab/ Universal cables/RR
ii	<p>Supply, laying & termination of 1100V grade armoured cable having sector / circular shaped aluminium conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554,</p> <p>a. 2 Run 3.5C x185 Sq.mm XLPE LT cables (Poly Cab/KEI/CCI/Universal) -2x1500 Meter between Unit#3 PCC at MPH to new fire station electrical room</p> <p>Note: For Underground cable laying contractor should follow the procedure as per point No (iii) All accessoried like gland, lugs , few meters of cable tray/ GI pipe required to connect the underground cable with PDB inside building is considered in scope</p>	3000	Meter	KEI/Polycab/ Universal cables/RR
iii	<p>Providing Cable route with under ground excavation, sand bedding for 50mm below cable ,clay brick lining over cable , backfilling & route marking Cable route marker should be of concrete type with voltage marking & same shall be installed with proper /suitable arrangement of pedestal at every 10 Meter.</p> <p>At road Crossing 100MM heavy Grade GI Pipe burying at 500mm depth with concrete filling shall be considered</p>	2400	Meter	

iv	Supply, laying & termination of 1100V grade armoured cable having sector / circular shaped copper conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed conforming to IS: 1554; Cable from Hydrogen Plant cable Tray to New fire house control room at 2 runs (approx 500M each) ; a. b. 2Corex1.5Sqmm, Cu cable 1100V XLPE Armored Note: For Underground cable laying contractor should follow the procedure as per point No (iii)	1000	M	
3	Other electrical Appliances & Accessories			
i	Supply installation & Commissioning of 5KVA UPS System with 4Hr's back Up Power Supply(including batteries) of Make-APC/DB Power/Emerson/Hitachi	2	Lot	APC/DB Power/Emerson/Hitachi
ii	Supply & Installation of Public Addressing System at main gate complex for communication from Admin- gate to bulker parking & outside gate compound - BOSCH Public Address Systems,Product Certificate: CE Brand Name: Bosch,Frequency Response: 20Hz-20KHz, 1 controller with Mic at Admin control room & two heavy duty speakers at bulker parking & gate compound focusing towards outside including signal cabling & power cable tapping from nearby lighting DB	1	Lot	
iii	Supply & Installation of siren System Audible up to 5Km as per relevant Standard	1	Lot	
iv	Supply, Installation & Commissioning of 2 Ton, all weather AC with BEE 5 Star Split Air Conditioner	15	No's	Carrier, Bluestar, Samsung
v	Supply & Installation of Industrial Type Emergency LED Light (14-18W) with Exit Sign(minimum 1Hr Back Up arrangement)	8	No's	
vi	Outdoor Led Flood light MAGNUM' LED flood light, 1phase 60W with all accessories & fixing supports / anchoring & etc of Model No :BJFL 60W LED, Make Bajaj	6	No's	Bajaj
4	Service/ pottable water line from main plant area to new fire house & Main gate complex			
a	Supply of MS Pipeline for service water supply - DN50 ,3.9mm thick	900	M	
b	Supply of MS Pipeline for service water supply - DN25 ,3.9mm thick	150	M	
b	Excavation & backfilling for 0.8M depth, laying of DN50/DN25 pipeline , fitment, welding, wrapping coating of buried pipeline, providing route marker every 30M once;One road crossing with backfilling with concrete for 8M wide road is also to be considered; Supply & installation all pipeline Elbow & accessories suit at site shall be in party's Scope to complete the instalaltion	1000	M	
c	Supply & installation of SS ball valves - DN50, 6 Kg/Cm2 (medium-water) along with counter flange, gaskets & hardware	5	Nos	
d	Supply & installation of SS ball valves - DN25, 6 Kg/Cm2 (medium-water) along with counter flange, gaskets & hardware	4	Nos	
5	Fire hydrant water line from main plant switchyard/ H2 plant area to new fire house & Main gate complex			
a	Supply of MS Pipeline for Hydrant water supply - DN150 ,6.0mm thick, operating pressure -8Kg/Cm2 with hydrant water medium	750	M	
b	Excavation & backfilling for 0.8M depth, laying of DN150 pipeline , fitment, welding, wrapping coating of buried pipeline, providing route marker every 30M once;One road crossing with backfilling with concrete for 8M wide road is also to be considered; Supply & installation all pipeline Elbow & accessories suit at site shall be in party's Scope to complete the instalaltion	750	M	
c	Supply & installation of hydrant point of DN75 (3 feet height) with hydrant landing valve (Gun metal) , Elbows & all required accessories	4	Nos	
d	Supply & installation of hydrant line isolation valves - DN150 Gate valve with underground valve chamber made of clay bricks & motar with internal plaster of size -800mm X800mmX500mm	3	Nos	
e	Supply & installation of Hose box with fire fighting hose of 30M	4	Nos	

Total Cost implications