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LODHA CLARIANT
PLOT C SALES GALLERY, INFRA WORKS

SECTION – I

BH-ZSG-BOQ-E-0002
BILL OF QUANTITY / SCHEDULE OF PRICES

BUROHAPPOLD ENGINEERING

P0	09.10.2015	Electrical Tender	JV			LODHA
Rev	**Date**	**Revision**	**Prepared By**	**Checked By**	**Approved by**	**Client**

SALES GALLERY- EXTERNAL SERVICES ELECTRICAL

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	
					Rs.	Paise
	BILL NO. 1 - ELECTRICAL ENGINEERING INSTALLATIONS					
1	**LV Panels**					
	Include for the Supply, Installation, Testing and Commissioning of the complete installation as detailed in the Specifications and on the Drawings and to the complete satisfaction and approval of the Engineer and all concerned Statutory Authorities and under the following sections including MDBs and associated protective devices, relays, meters, terminations, isolators, supports, surge protection, accessories, etc., complete					
1.01	Installation, testing and Commissioning of SG-MDB-L0001 - As per Drawing No. BH-ZSG-SLD-E-1100(Sales Gallery LV Schematic) EC to field verify the existing panel on site and make the panel to be in working condition. Check the circuit integrity of the panel and change components necessary for making the panel to use functionally as intended in the drawings. EC to field verify before bidding and accodmodate all the required changes in the quote	No.	1			
1.02	SG-APFCR-L0001 - As per Drawing No. BH-SLD-E-1100 (Sales Gallery LV Schematic)	No.	1			
1.03	SG-ATS-0001 - As per Drawing No. BH-SLD-E-1100 (Sales Gallery LV Schematic)	No.	1			
1.04	SG-EXT-LPDB-L0001 - Incomer : 125 A TPN Isolator RCCB : 30 mA DP / Phase Timer : 1 No. Dual Channel 24x7 Programmable Astronomical Time Switch O/G : 25 Nos. 20 A SP MCB with SP Contactor controlled by Time Switch 03 Nos. 32 A DP MCB Each for Elec. Room, Pump Room & Guard House 05 Nos. 20 A SP MCB 01 Nos. 40 A TPN MCB ISO	No.	1			
2	**SUBSTATION LIGHTING & POWER**					
	Supply, Intallation, Testing and Commissioning of Substation lighting and small power distribution inlcuding DB and other accessories as per drgs and specifications					
2.01	Batten type, suspended type weather proof luminaire including lamps suitable for 2x28W, TL5 fluorescent lamps(TYPE-1)	Nos	6			
2.02	Batten type Corrosion resistant luminaire including lamps suitable for 2x28W, TL8 fluorescent lamps(TYPE-2)	Nos	QR			
2.03	Self contained, Non Maintained, Emergency lighting luminaries suitable for 1x20W FTL with 3 hr backup & sealed rechargeable Ni-Cd batteries (high temperature type) Prolite Make: PEL 120NM/H (TYPE-3)	Nos	3			
	DBs, associated protective devices, relays, breakers, terminations, isolators, supports, surge, protection, accessories, etc., complete,					
2.04	Wall mounted 4-Way SPN Lighitng DB Incomer - 32A DP RCCB 30 mA O/G - 4 Nos .SP 6/10/16/20 A MCB	Nos	3			
2.05	Single phase Switched Socket Outlet 6/16A with Plastic surface box, white cover plate, Switch & socket (For Exhaust Fans).	Nos	5			
2.07	Exhaust Fans (300mm dia)	Nos	2			
2.08	Ceiling Fans 900mm Dia.	Nos	1			
	Point wiring including pvc concealed conduiting with bends, elbow and complete accessories, from DB including termination at the light point, fan point, power points and switch board including installation of wiring accessories (backboxes, switches, sockets, module/faceplate etc. complete) as per the point wiring definition please refer to standard details sheets.					
2.08	TYPE-1	Nos	8			
2.09	TYPE-2	Nos	2			
2.10	TYPE-3	Nos	2			
2.11	Exhaust fan point	Nos	2			
2.12	Ceiling Fan Point with Regulator	Nos	1			
3	**EARTHING**					
	Include for the Supply, Installation, Testing and Commissioning of the complete installation as detailed in the Specifications and on the Drawings and to the complete satisfaction and approval of the Engineer and all concerned Statutory Authorities and under the following sections including earth pits, rods,earth bar & terminal, earth seal, conduits, cables including accessories, terminations, fittings, fixing complete as per codes and guidelines (Refer Earthing Schematics)					
	Note: 1) Earth bars to be mounted on insulators 2) For each earth bar provide for twin disconnection links					
3.01	Maintenance Free Earth Pits(Including overall Earth pit assembly)	Nos.	6			
	Supply and fixing of following bare Al. cables/copper tapes/wires including all necessary fixing accessories and terminations and effecting connections as per specifications.					
3.02	50 x 10 mm2 GI. Strip	M	50			
3.03	32 x 6 mm2 GI Strip	M	20			
3.04	Supply and installation of 50mm x 10mm x 300mm GI Earth busbar mounted on insulators and having 15 nos. holes for terminating flexible cable/ Strip with the entire assembly enclosed in 1.6 mm thick MS enclosure of approved make, design & painted with approved paint shade.	Nos	4			
	Include for the complete Supply, Installation, Testing and Commissioning of the following items as detailed in the tender documents and to the complete satisfaction and approval of the Engineer and all concerned Statutory Authorities and under the following sections.					
4	**CABLING AND TERMINATIONS**					
	XLPE/SWA/PVC/Al. Cabling works including, accessories, support, protection, termination etc. complete					

4.01	4c x 16mm²	M	350			
4.02	4c x 25mm²	M	115			
4.03	4c x 50mm²	M	321			
4.04	4c x 70mm²	M	30			
4.05	4c x 95mm²	M	30			
4.06	4c x 240mm²	M	120			
4.07	4c x 300mm²	M	608			
	Cable Terminations					
4.08	4c x 16mm²	Nos	10			
4.09	4c x 25mm²	Nos	8			
4.10	4c x 50mm²	Nos	10			
4.11	4c x 70mm²	Nos	2			
4.12	4c x 95mm²	Nos	2			
4.13	4c x 240mm²	Nos	8			
4.14	4c x 300mm²	Nos	8			
4.15	SWA Cable Termination to the earth bar - 16mm²	Nos	10			
4.16	SWA Cable Termination to the earth bar- 25mm²	Nos	8			
4.17	SWA Cable Termination to the earth bar- 50mm²	Nos	10			
4.18	SWA Cable Termination to the earth bar- 70mm²	Nos	2			
4.19	SWA Cable Termination to the earth bar- 95mm²	Nos	2			
4.20	SWA Cable Termination to the earth bar- 240mm²	Nos	8			
4.21	SWA Cable Termination to the earth bar- 300mm²	Nos	8			
	PVC/Al. Cabling works including, accessories, support, protection, termination etc. complete					
4.22	CPC Cable - 1c x 16mm²	M	350			
4.23	CPC Cable - 1c x 25mm²	M	436			
4.24	CPC Cable - 1c x 35mm²	M	36			
4.25	CPC Cable - 1c x 50mm²	M	36			
4.26	CPC Cable - 1c x 150mm²	M	QR			
4.27	CPC Cable - 1c x 300mm²	M	QR			
4.28	CPC Cable Termination to the earth bar - 1c x 16mm²	Nos	10			
4.29	CPC Cable Termination to the earth bar - 1c x 25mm²	Nos	18			
4.30	CPC Cable Termination to the earth bar - 1c x 35mm²	Nos	2			
4.31	CPC Cable Termination to the earth bar - 1c x 120mm²	Nos	2			
4.32	CPC Cable Termination to the earth bar - 1c x 150mm²	Nos	QR			
4.33	CPC Cable Termination to the earth bar - 1c x 300mm²	Nos	QR			
5	**DWC SN8 PIPES:**					
	Include for the complete Supply, Installation, Testing and Commissioning of the following items as detailed in the tender documents and to the complete satisfaction and approval of the Engineer and all concerned Statutory Authorities and under the following sections.					
	FOR LV					
	Supply and laying of following sizes of RCC Hume Pipe, Class NP-2/3 (Work shall include excavation, refilling, jointing of collars, sealing of end etc. complete as required)					
5.01	150 mm dia	M	440			
	FOR ELV					
	Supply and laying of following sizes of RCC Hume Pipes, Class NP-2/3 (Work shall include excavation, refilling, jointing of collars, sealing of end etc. complete as required)					
5.02	100 mm dia	M	60			
6	**MAN HOLES:**					
	Include for the complete Supply, Installation, Testing and Commissioning of the following items as detailed in the tender documents and to the complete satisfaction and approval of the Engineer and all concerned Statutory Authorities and under the following sections.					
	Constructing Water tight brick masonry manhole with first class bricks in cement mortar 1:6 (1cement :6 coarse sand), R.C.C. top slab with 1:2:4 mix (1cement :2coarse sand :4 graded stone aggregate 20mm nominal size). Foundation concrete 150mm thick 1:4:8 (1cement :4 coarse sand :8 graded stone aggregate 40mm nominal size), inside plastering 12 mm thick with cement plaster 1:3 (1cement :3 coarse sand) finished with a floating coat of neat cement and making channel in cement concrete 1:3:6 mix, M.S. foot rests including fixing in 20 x 20 x 10cm cement conc. blocks neatly finished, complete with double sealed cover as per standard design and approved drawings. (Price shall include the cost of excavation, back filling, disposal of suplus earth dewatering & water proofing of manholes as directed at site & other associated civil works).					
6.01	750 x 750 x 1000mm Deep	Nos	7			
6.02	600 x 600 x 750mm Deep	Nos	2			
6.03						
7	**SAFETY EQUIPMENTS**					
	Supply of Safety equipment for electrical equipments as per IS and tender document.all complete works.					
	Rubber matting in front of each switchgear					
7.01	1.1 kv grade	Sq.mm	5			
7.02	Shock treatment chart	Nos	1			

	Caution and Danger board					
7.03	11kv system	Nos	-			
7.04	415V system	Nos	1			
7.05	Fiber discharge rod	Nos	-			
	Hand gloves					
7.06	Pair of hand gloves tested for 22kV/11kV	Nos	-			
7.07	Pair of hand gloves tested for 415V	Nos	1			
7.08	CO2 Fire extinguisher : 4.5 Kg	Nos	1			
8	**MISCELLANEOUS WORKS**					
	Contractor shall confirm following miscellaneous items but not limited to are included in above quoted tender	Item				
8.01	Drawings, manuals, approvals from LODHA (Asbuilt drawings, Shop drawing, Material Submittal etc.)	Incl				
8.02	Assistance and documentation to Liasioning Work	Incl				
8.03	Operation & Maintenance Manual	Incl				
8.04	Testing & Commissioning	Incl				
8.05	Sealent (Fire/other) and Protection for equipements.	Incl				
8.06	Identification and Labeliing.	Incl				
8.07	Inspection and getting approval of all the HT equipments and materials at the factory and at site as per the MSEDCL requirements. Preparation and submission of all required documentation is also included.	-				
	TOTAL					