

TECHNICAL EVALUATION**ELECTRIFICATION IN CONNECTION WITH PROCUREMENT AND INSTALLATION OF MACHINERY AT SIGNAL SHOP
LAHORE.**

SN	Mandatory Requirement	M/S Sprit Industries	M/s Grand Electric Co. Ltd	M/s Arshad , Amjad & Abid (Pvt) Ltd
1.	PEC Category	Valid	Valid	Valid
2.	Registered Sale Tax, Incom Tax & FBR payer list	Suitable	Suitable	Suitable
3.	Litigation history	Provided	Provided	provided
4.	Affidavit black list	Provided	provided	provided
5.	Bid Security	Suitable (CDR)	Suitable (CDR)	Not Suitable (Bid Bond not acceptable)
6.	Bidder signed on tender	OK	OK	OK
7.	Certificate that material is brand new.	Suitable	Suitable	Suitable
8.	Brand name, Make/Country of Origin as per Annexure 'A' attached	Suitable	Suitable	Suitable
9.	Delivery period	90 days	90 days	90 days
10.	Years of experience of bidder for supplying similar goods	30 marks (exp. 10 years +)	30 marks (exp. 10 years +)	30 marks (exp. 10 years +)
11.	Experience of bidder having similar nature HV/LV electrical works in last 10 years	Nos of projects = 0 Marks = 0 (07 Nos Similar HV/LV works are from 3 rd party and not the firm's own)	Nos of projects = 13 Marks = 20	Nos of projects = 22 Marks = 24
12.	Annual Turnover of bidder	(156 millions) 30 Marks	(122 millions) 20 Marks	(113 millions) 20 Marks
13.	Total:	60 Marks	70 Marks	74 Marks
14.	Remarks	Not Suitable Due to less marks as qualifying	Suitable	Not Suitable Due to bid security (CDR) as mandatory item

Note:- Qualifying marks = 65

Navalokh
24/5/2023
DY: CEE/ Incharge

Approved
24.5.23
CCP

Mirza
CCP
CSTE/Operations

24/5
PD/Signal Shop

S#	DESCRIPTION OF WORK	UNIT	QTY	Offered by			Remarks	Offered by			Remarks	
				M/s. Sport Industrial Lahore	Name of Brand	Country (Origin) & Model		M/s. Grand Electric Co. Lahore.	Name of Brand	Country (Origin) & Model		M/s. Arshad, Amjad & Abid Lahore
1	DISTRIBUTION BOX: Distribution board size 8"X10" of 18 SWG gray painted inside & out side having suitable space for breakers. Fitted with indication light, digital volt meter and fixing arrangements as per site requirements.	Each	1	M/S-SPH (Sport Industries)	Pakistan	Suitable	Electroch PVT Ltd	Pakistan	Suitable	Tang Electric Pvt Limited	Pakistan	Suitable
2	DISTRIBUTION BOX: Distribution board size 12"X18" of 18 SWG gray painted inside & out side having suitable space for breakers. Fitted with indication light, digital volt meter and fixing arrangements as per site requirements. HEAVY DUTY VENTILATION FAN: Heavy Duty ventilation fan 36"X36" Belt Drive. Number of blades: (6) Duty Continuous 650 RPM. Ambient Temperature: 50°C. Air Flow Volume 9000 CFM. The frame material is Galvanized with advance automatic centrifugal opening system, with 3-Phase 400V 50Hz Imported Induction motor 0.75 H.P 1450 RPM. Complete Noiseless Automatic Louver Fan with China Motor Model BSF-36X36 with fitting and fixing arrangements. MAKE Bilal Engineering or equivalent means having same quality / specifications.	Each	1	M/S-SPH (Sport Industries)	Pakistan	Suitable	Electroch PVT Ltd	Pakistan	Suitable	Tang Electric Pvt Limited	Pakistan	Suitable
3	11KV TRANSFORMER PROTECTION PANEL: The transformer protection panel should be branded having minimum following specifications: Panel Body: Floor Mounted cubicle type, made of minimum 2mm metal clad sheet fabricated, IP-4X, totally enclosed with hinged front doors. The panel shall be designed for 3 phase, 3 wire, 50Hz, AC system and shall be supplied complete with air insulated high conductive hard drawn electrolytic copper bus bars of adequate current carrying capacity and short circuit rated copper inter-connections, instruments, small insulation material, wiring and finished with two coats of anti rust paint. Panel Parts: In addition to other protection following minimum parts must be included in the protection panel: - Over Current and Earth Fault Relay (SIA-F) 01No - Capacitor Trip Unit: 01No - Draw out type: TP, Vacuum Capacitor Breaker Manually Operated rated, 15KV, 650A, 25KA, B11L, 96KV, 01No - Dry type: 11KV Current Transformer, suitable ratio 10VA, class 1 for Metering, 15VA, 5P20 class for Protection, 03Nos. - Dry type: SP, Potential Transformer ratio 6.6kV/110V/100VA, 0.5 class, 03Nos. - Dial type: Ammeter with flush mounted scale (as per CT ratio) with Phase Selector Switch, 01No - Dial type: Voltmeter with flush mounted scale of (0-15KV) with Phase Selector Switch, 01No - Push Button for Emergency Trip, 01No - Anti Condensation Heater, 01No - TP, MCB, 6A/10A for Control, 01No - DP, MCB, 6A/10A for Control, 01No Panel Protection: E/F, O/C, S/C, Protection Relay, kWh meter Note: All parts should be branded and new in condition from WAPDA approved manufacturer i.e. PEL or equivalent with same specification	Each	2	M/S Engg	Pakistan	Suitable	M/S Engg	Pakistan	Suitable	PEL WAPDA approved	Pakistan Model 11 kv	Suitable

M/S
DYL
24/5

24/5

MAIN LT PANEL FOR 630kVA TRANSFORMER:

The LT panel should be designed according to the machines and site requirement having minimum following specifications:
 Panel Body - Floor Mounted cabinet type, made of minimum 16 SWG totally enclosed with front doors. The panel shall be designed for 3 phase, 3 wire, 50Hz, AC system and shall be supplied complete with air insulated high conductive hard drawn electrolytic copper bus bars of adequate current carrying capacity and short circuit rated copper inter-connections, instruments, small insulation material, wiring and finished with two coats of anti rust paint.

- Panel Parts (Incoming):** In addition to other protection following minimum parts must be included in the protection panel (Incoming):
 ACB 1250A TP 65CA 01No
 Motor Mechanism 01No
 LVT, Shunt, ON, OFF Coil 220V 04Nos
 Push Button ON/OFF 02Nos
 Digital Volt & Ampere meter 3 in 1 01No
 CT 1000/5A 01No
 kWh Meter (for Billing) 01No
 CT 1000/5A 04Nos
 Phase Indication Lights 03Nos
 MCB 6A SP 6kA for control 03Nos

- 4A**
 Panel Parts (Outgoing): In addition to other protection following minimum parts must be included in the protection panel (Outgoing):
 MCCB 800A TP 50kA 02Nos
 Digital Ampere meter 3 in 1 02Nos
 CT 1000/5A 01Nos
 MCCB 100A TP 10kA 20Nos, MCCB 200 Amps- 05 Nos
 Panel Parts (Switch Gear) In addition to other protection following minimum parts must be included in the protection panel (Switch Gear)
 Cu bar 2x80x5 for 3 Phase (Tine coated) Purns 99% 03Nos
 Cu bar 1x80x5 for N Phase (Tine coated) Purns 99% 01No
 (Cu bar 1x40x5 for E Phase (Tine coated) Purns 99% 01No
 Cu bar 2x50x5 for MCCB 800A Purns 99% 2Nos
 Panel Protections Phase Failure-01 Nos, Under/Over Voltage Relay- 01 No Surge Divertor-01 No
 Note: All parts should be branded and new in condition from WAPDA approved manufacturer i.e. PTL or equivalent with same specification

SEPARATE LT PANELS FOR BOLT & NUT PRODUCTION MACHINES:
 The LT panel/IBI should be designed according to the machines and site requirement having minimum following specifications:
Panel Body: The panel body should be made of minimum 16 SWG totally enclosed with front door. The panel shall be designed for 3 phase 3 wire or single phase 50Hz AC as per machine requirement and must finished with two coats of anti rust paint.

- LT Panels for Bolt Production Machines (Detail Specifications Annex-1)**
 1 Round Bar Cutting Machine: approx. load 10 kW 01No
 2 Bar Chamfer Machine: approx. load 5kW 01No
 3 Automatic Determining Machine: approx. load 15kW 01No
 4 Lubrication Furnace: approx. load 200kW 01No
 5 Bolt Forging Press: approx. load 20kW 01No
 6 Water Chiller: RO Plant Complete: approx. load 40kW 01No
 7 Bolt Threaded Machine: approx. load 15kW 01No
LT Panels for Nut Production Machines (Detail Specifications Annex-2)
 8 Auto Peeling Machine: approx. load 3kW 01No
 9 Lubrication Furnace: approx. load 250kW 01No
 10 Nut Forging Press: approx. load 25kW 01No
 11 Water Chiller: RO Plant Complete: approx. load 40kW 01No
 12 Spot Heating Machine: approx. load 20kW 01No
 13 Nut Tapping Machine: approx. load 15kW 01No
Panel for Legging, Fans, Air conditioner etc/As per Site Requirement)
 14 Approx. load 15kW 01No
Protections: Each panel should be fitted with over/under voltage Relay, Phase Failure Relay, Surge Control device & earth fault relay as per machine specifications. Make Power Solution or equivalent means having same quality or specification. All parts should be branded and new in condition from WAPDA approved manufacturer i.e. PEL or equivalent with same specification.

Each	2	M/s. Enge	Pakistan	Suitable	Electrech Pvt Ltd	Pakistan	Suitable	Tang Electric Pvt Limited	Pakistan	Suitable
Set	1	M/S/PI (Spun Industries)	Pakistan	Suitable	Electrech PVT Ltd	Pakistan	Suitable	Tang Electric Pvt Limited	Pakistan	Suitable

M
 PTL
 24/5

24/5-24

<p>POWER FACTOR IMPROVEMENT PLANT 200KVAR: Breaker TP MCCB 400A Make Schneider-01 No. TP Magnetic Contactor 80A-02 Nos. TP Magnetic Contactor 35A-01 No. PFI Relay 12steps-01 No. HRC Fuse 125Amp+Base-00 Nos. HRC Fuse 63Amp+Base-00 Nos. HRC Fuse 32Amp+Base-00 Nos. Power Capacitors 12.5KVAR-02 Nos. Power Capacitors 25KVAR-03 Nos. Power Capacitors 50KVAR-02 Nos. Indicator Lights 230VAC ON/OFF-14 Nos. Push Button ON/OFF-14 Nos. Breaker SP 2A For control wiring-03 Nos. Auto manual Selector Switch Single Cell-01 Nos. Exhaust Fan 230VAC & Thermostat-01 Nos. Panel Light & D.V. Lamp Switch, O/G & PFI-06 Nos. Power Capacitor Cable 12.5, 25 & 50-01 No. Control wiring Wire I/C, O/G & PFI-01 Job. Plastic Lower 300 x 300mm, O/G & PFI-12 Nos. Terminal Block 6mm-02 Nos. Current transformer 400/5A-01 No. MS Metal Sheet(H1600 x W800 x D800) 16 SWG Color 7013-01 No. Fabrication With Copper Bus Bar-01 Job with fitting and fixing arrangements as per site requirement WAPDA approved manufacturer i.e. PEL or equivalent with same specification</p>	Each	1	M/K Engg	Pakistan	Suitable	Electrocraft PVT Ltd	Pakistan	Suitable	M/K & Son	Pakistan	Suitable
<p>HIGH PRECISION DYNAMIC VOLTAGE REGULATOR: Module required for the power electronic voltage stabilizing. The dynamic voltage restorer should use the module as the compensation control unit. The power electronic regulation module should be an AC/AC converter using a high power transistor as a switching device. Following are the minimum required specifications Compensation Voltage Range: $\pm 15\%$, $\pm 20\%$, $\pm 30\%$, $\pm 40\%$ Voltage Range Accuracy: $\pm 1\%$ - $\pm 3\%$ Fully Dynamic Response Time: Less than 20ms Instantaneous Response Time: Less than 50ms Overall Efficiency: More than 97% Asymmetry of Input and Output: The asymmetry increment of output to input is less than 1% Protection Function: Overvoltage and under voltage in power grid, wrong and lack of phase in power grid, system overheating, system overload, overvoltage and under voltage of DC Bus, Overload automatic current limit protection, Overheat automatic current limiting protection, auto restart sequence, short-circuit protection Rated Voltage AC: 220V/380V Working Frequency: 50Hz $\pm 2\%$ System Format: Single-phase/three-phase, three wire/three-phase four wire. Make Samsung, Atico or equivalent means having same quality/ specifications. WAPDA approved manufacturer with same specification</p>	Each	1	M/S:SP (Spent Industries)	Pakistan	Suitable	Electrocraft	Not Mentioned	Suitable	TMAVR WAPDA approved	China	Suitable
<p>PROTECTION SWITCH: Protection Switch DOL 1HP 1.6-2.5A with fitting and fixing arrangements Make Chm or equivalent POWER DISTRIBUTION TRANSFORMER: PFCO (WAPDA) approved transformer having minimum following general technical specifications: Specification Standard: IEC-60076, DDS-84-2007 (amended to date) Rating (KVA): 630 Voltage Ratio: 11KV/415Volt Number of Phases: 3 Insulation Class: A Winding Material (HV/LV): Copper/Copper Temperature Rise: 40/50^oC Vector Group: Dyn-11 Type: Wheel Mounted. Make PEL Or equivalent</p>	Each	6	I/G	Korea	Suitable	China	China	Suitable	China	China	Suitable
<p>BRASS BOLTS & NUTS: Brass Bolt & Nuts with washers fully threaded size 1"x2"(2Kp) & 2"x2"(5Kp) RUBBER INSULATION: Rubber Insulation Sheet Electric Shock Proof Size 4'x4'x1" Superior Quality 11-KV D-Fuse SHT. (3-Piece) 11-KV D-Fuse Set Complete as per WAPDA Specification 11-KV D-Fuse CHANNEL (3-Piece) 11-KV D-Fuse Channel Complete as per WAPDA Specification AIR CONDITIONER CABINET: AC Cabinet Type 2-ton capacity make Haier or equivalent ELECTRIC CABLE: Single core PVC insulated, PVC sheathed copper conductor cable 600/1000 volts, Cable size 3/0.029" make New age or equivalent as per BSS specification 2004.</p>	Kg	7	Local Market	Pakistan	Suitable	Local	Local	Suitable	Local	Pakistan	Suitable
	Each	24	Local Market	Pakistan	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
	Set	2	Wapda approved brand	Pakistan	Not Suitable	Local	Pakistan	Suitable	EMCO	Pakistan	Suitable
	Set	2	Wapda approved brand	Pakistan	Not Suitable	Local	Pakistan	Suitable	EMCO	Pakistan	Suitable
	Each	2	Haier	Pakistan	Not Suitable	Haier	Pakistan	Suitable	Daewoo	Pakistan	Suitable
	Mtr	720	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable

10/10/20

16	ELECTRIC CABLE: Single core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Cable size 7.0/0.29" make: Newage or equivalent as per BSS specification 2004	Mtr	630	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
17	ELECTRIC CABLE: Single core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Cable size 7.0/0.36" make: Newage or equivalent as per BSS specification 2004	Mtr	180	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
18	ELECTRIC CABLE: Single core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Cable size 7.0/0.44" make: Newage or equivalent as per BSS specification 2004	Mtr	1080	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
19	ELECTRIC CABLE: Single core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Cable size 35mm ² make: Newage or equivalent as per BSS specification 6004/6360/6346	Mtr	90	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
20	ELECTRIC CABLE: Single core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Cable size 300mm ² make: Newage or equivalent as per BSS specification 6004/6360	Mtr	210	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
21	ELECTRIC CABLE: L.T Four core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Armoured Cable, with Steel Wire 16 SWG, Cable size 95mm ² make: Newage or equivalent as per BSS specification 6004/6360/6346	Mtr	30	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
22	ELECTRIC CABLE: L.T Four core PVC-insulated, PVC sheathed copper conductor cable 600/1000 volts Armoured Cable, with Steel Wire 16 SWG, Cable size 370/103 ² 185mm ² make: Newage or equivalent as per BSS specification No.6004/6360/6346	Mtr	30	Asian Cable	Pakistan	Suitable	Asian Cable	Pakistan	Suitable	Newage	Pakistan	Suitable
23	HT CABLE: HT Cable 120mm ² Core (Copper Conductor Armoured 11000) Vols XLPE, as per site requirement Newage or equivalent from WAPDA approved manufacturer and will be tested as per relevant WAPDA specification	Mtr	400	Newage	Pakistan	Suitable	Newage	Pakistan	Suitable	Newage	Pakistan	Suitable
24	Erection/Laying of H.T cable 120mm ² in kachia naseer land 1 meter deep & refilling of trenches as per C.E.T.'s Specification from Signal Shop Sub-Station to New Sub-Station Signal Shop	Mtr	400	complying to site requirement	Local	N/A	N/A	N/A	N/A	Local	Pakistan	N/A
25	LED FLOOD LIGHT: LED Flood Light Fitting 140 Watt/230 Volt (H-46) Complete in all respect with fitting & fixing arrangements as per site requirements, Make OSAKA or equivalent	Each	10	orient	Pakistan	Suitable	EXXSN	China	Suitable	Osaka	China	Suitable
26	LED FLOOD LIGHT: LED Flood Light Fitting 150 Watt/230 Volt (H-46) Complete in all respect with fitting & fixing arrangements as per site requirements, Make OSAKA or equivalent	Each	3	orient	Pakistan	Suitable	EXXSN	China	Suitable	Osaka	China	Suitable
27	LED TUB LIGHT: LED Tube Light fitting 1x20 Watts complete Make OSAKA or equivalent	Each	8	Osaka	Pakistan	Suitable	EXXSN	China	Suitable	Osaka	China	Suitable
28	LED LAMP: LED Lamp 18 Watt Screw Type 230Volts make Osaka or equivalent	Each	4	Orient	Pakistan	Suitable	EXXSN	China	Suitable	Osaka	China	Suitable
29	SMD DOWN LIGHT: SMD Down light 6-12 Watts Make Osaka or equivalent	Each	12	Orient	Pakistan	Suitable	EXXSN	China	Suitable	Osaka	China	Suitable
30	CEILING FAN: Energy saving ceiling fan 36" sweep copper winding 30 Watts with dimmer, Fan rod, as per site requirement Model Delta Premium make Royal or equivalent	Each	16	Royal Fan	Pakistan	Suitable	GFC Fans	Pakistan	Suitable	GFC Fans	Pakistan	Suitable
31	FAN ROD: Fan Rod 1/2"x8" Make Superior quality	Each	16	complying to site requirement	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
32	FAN DIMMERS: Fan Dimmers China Fitting Make Opal Or equivalent	Each	4	Opal	Pakistan	Suitable	Opal	China	Suitable	Opal	China	Suitable

24/5

33	LIGHT PLUG	Light Plug 1520 Amps Make Opal or equivalent	Each	6	Opal	Pakistan	Suitable	Opal	China	Suitable	Opal	China	Suitable
34	CHINA FITTING SWITCH BOARD	China Fitting Switch Board 8+2 make Opal or equivalent	Each	3	Opal	Pakistan	Suitable	Opal	China	Suitable	Opal	China	Suitable
35	CHINA FITTING SWITCH BOARD	China Fitting Switch Board 6+2 make Opal or equivalent	Each	1	Opal	Pakistan	Suitable	Opal	China	Suitable	Opal	China	Suitable
36	PVC MOULDED BOARD:	PVC Moulded board 3" x 6" Superior quality.	Each	4	Superior Quality	local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
	FIRE EXTINGUISHER:	Fire Buster Clean Agent Fire Extinguisher 6 Kg	Each	6	Hussain Habib	Local	Suitable	Hussain Haseeb	Pakistan / China	Suitable	Hussain Haseeb	Pakistan	Suitable
37	Fire Buster clean agent fire extinguisher 6 Kg capacity. HFC 250 (a), Suitable for A,B,C and Class E Fires. No Residue. Environment friendly. Zero ODP Listed as an acceptable Halon Replacement in the EPA SNAP program for Halon 1211. Manufactured to ISO 9001:2015 by Haseen Haseeb												
38	G.I Cable Tray:	G.I Cable Tray Size 6"x4" 16 SWG With Cover superior quality with fitting & fixing arrangements As Per Site Requirement	ft	250	Site Requirement	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
	EARTING:												
39	Sub-station type earth with C.I Pipe 4" x 20' Long. 1/2" thick with copper plate at bottom 12"x12"x1/2" and 9"x9"x1/2" on fixed top flange with Nos HDBC wires 2 no from bottom copper plate to top plate and 2 SWG HDBC wire from earth to panel and transformer with copper thimbles complete with brass nut & bolts		Each	2	Site Requirement	Local	N/A	N/A	N/A	N/A	Local	Pakistan	N/A
40	EARTING OF MACHINES	Machine with earth pit size 12"x12"x8" containing mixture of salt & charcoal as per standard	Each	30	Comply	Local	N/A	N/A	N/A	N/A	Local	Pakistan	N/A
41	TINED THIMPLE COPPER	Tined Thimble Copper Size 300mm	Each	32	Comply	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
42	TINED THIMPLE COPPER	Tined Thimble Copper Size 25mm	Each	48	Comply	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
43	TINED THIMPLE COPPER	Tined Thimble Copper Size 35mm	Each	48	Comply	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
44	TINED THIMPLE COPPER	Tined Thimble Copper Size 95mm	Each	48	Comply	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
45	TINED THIMPLE COPPER	Tined Thimble Copper Size 185mm	Each	60	Comply	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
46	H.T Empire Tape	11 KV HT Empire Tape "Size 1/2" Superior Quality	Each	18	Superior Quality	Local	Suitable	China	China	Suitable	China	China	Suitable
47	PVC Tape	PVC Tape Size 1/2" Make Osaka or Equivalent	Each	100	Osaka	Pakistan	Suitable	Osaka	Pakistan	Suitable	Osaka	Local	Suitable
48	PVC Pipe size 1/2"	PVC Pipe size 1/2" including pull boxes, inspection boxes, bends, tees. (Complete with all accessories for wiring purpose Make Popular Or Equivalent	Mtr	100	Popular	Pakistan	Suitable	GN	Pakistan	Suitable	Popular	Local	Suitable
49	PVC Pipe size 1"	PVC Pipe size 1" including pull boxes, inspection boxes, bends, tees. (Complete with all accessories for wiring purpose Make Popular Or Equivalent	Mtr	600	Popular	Pakistan	Suitable	GN	Pakistan	Suitable	Popular	Local	Suitable
50	Ceiling Rose:		Each	12	Arrel	Pakistan	Suitable	Inteq	Pakistan	Suitable	Inteq	Pakistan	Suitable
51	Batten Holder	Batten holder Screw Type bakelite make Arrel or equivalent	Each	4	Arrel	Pakistan	Suitable	Inteq	Pakistan	Suitable	Inteq	Pakistan	Suitable
52	Ceiling Fan Hook	Ceiling Fan Hook M.S Round Hook 1/2" Dia superior Quality	Each	16	Superior Quality	Local	Suitable	Local	Pakistan	Suitable	Local	Pakistan	Suitable
53	AC Exhaust Fan 12"	AC Exhaust Fan 12" sweep metallic body (Copper Winding) with honner Make Royal or equivalent.	Each	2	Royal Fan	Pakistan	Suitable	GFC Fans	Pakistan	Suitable	GFC Fans	Pakistan	Suitable

Handwritten signature and date:
 20/11/2025

54	AC Exhaust Fan 18"	Royal Fan	Each	2	Superior Quality	Pakistan	Suitable	GFC Fans	Pakistan	Suitable	GFC Fans	Pakistan	Suitable
55	Call Bell ding done type 220/250 volts fixed on teak wood board 17.5x10cm (7"x4")	Each	2	Superior Quality	Local	Suitable	Local	Pakistan	Suitable	China	China	China	Suitable
56	Bell Push or bed type switch 5m twin core flexible wire 2.3x6 0076"	Each	2	Raychem	Pakistan	Suitable	Local	Pakistan	Suitable	China	China	China	Suitable
57	H.T Indoor/Outdoor termination Kits	Each	6	Raychem	Pakistan	Suitable	Raychem	Pakistan	Suitable	China	China	China	Suitable
58	L.T Termination Kit	Each	8	Raychem	Pakistan	Suitable	Raychem	Pakistan	Suitable	China	China	China	Suitable
59	Circuit Breaker SP 6-16Amps	Each	9	Schneider	Pakistan	Suitable	Schneider	Pakistan	Suitable	Schneider	Thailand	Thailand	Suitable
60	Circuit Breaker TP 32 Amps	Each	4	Schneider	Pakistan	Suitable	Schneider	Pakistan	Suitable	Schneider	Thailand	Thailand	Suitable
61	Circuit Breaker TP 63Amps	Each	2	Schneider	Pakistan	Suitable	Schneider	Pakistan	Suitable	Schneider	Thailand	Thailand	Suitable
62	Circuit Breaker TP 100Amps	Each	2	Schneider	Pakistan	Suitable	Schneider	Pakistan	Suitable	Schneider	Thailand	Thailand	Suitable
63	ACCESSORIES MISC. ELL. ENDS PARTS & MATERIAL: Ivc pipe, Exhaust Fan, Circuit Breaker, Copper Thumbie, Batten Holder Power & Lighting wiring accessories etc	Set	1	Site Requirement	Local	Suitable	Local	Pakistan	Suitable	Popular	Pakistan	Pakistan	Suitable

Muhammad
24/5/2023

Abbas
24/5/23

M. S. Qureshi
CST/Operations

[Signature]
PD/Signal Shop