



Ref. No. NCB-Works/PICIIP-27 (1)

Date: 03 November 2022

Subject: **Minutes of Pre-Bid Meeting held at PMU PICIIP Office on 20 October 2022 for**

NCB-Works/PICIIP-27: Civil Works for Parking Sheds at Sahiwal and Sialkot including Construction of Boundary Wall and Gate, Surveillance and Security System, Guard / Driver and Equipment, Office Building and Allied Works at Sahiwal and Sialkot.

As per the Bidding Documents issued on 11 October 2022, the date of the pre-bid meeting was scheduled on 03 October 2022. The pre-bid meeting was convened and chaired by the Deputy Program Director (DPD), Program Management Unit (PMU), Punjab Intermediate Cities Improvement Investment Program (PICIIP), Local Government & Community Development Department, Punjab, Pakistan. Following officials from PMU and UMDS Consultant attended the meeting:


- i. Mr. Umar Tayyab (Deputy Program Director) PMU, PICIIP.
- ii. Mr. Salman Mirza (Director Admin & Finance) PMU, PICIIP.
- iii. Mr. Shuja Dar (Director Procurement & Contracts), PMU, PICIIP.
- iv. Mr. Haider (Deputy Director Infrastructure) PMU, PICIIP.
- v. Mr. Mehmood Ahmed (Deputy Team Lead-EPCM Consultant)
- vi. Mr. Noshad Ahmed (Procurement Specialist-EPCM Consultant)

The meeting started with the recitation of Holy Quran. The chair welcomed the participants (list attached as **Annex-A**) and asked the Director Procurement & Contracts to start the meeting. The participants were briefed on the bidding documents, particularly the contents of Section 2 (Bid Data Sheet), Section 3 (Evaluation and Qualification Criteria), Section 4 (Bidding Forms), and Section 8 (Particular Conditions of the Contract).

The meeting was held in two parts. During the first part, it was explained in detail by reading the important Instructions to Bidders clauses on the preparation of bids and application of evaluation criteria (financial and experience). It also stressed on the significance of responsive bid submission.

During the second part of the meeting, the participants were invited to raise queries. Director Procurement & Contracts advised them to submit their written queries to PMU for written replies/advice accordingly. The Bidders submitted their written queries from time to time by (Thursday) 03 November 2022 and the replies thereof, in writing, are attached as **Annex-B**.

The meeting was concluded with a vote of thanks to and from all the participants.


Director
Procurement & Contracts
Program Management Unit,
PICIIP, LG&CD Department
Govt. of the Punjab



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PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM



Annex - A

ATTENDANCE SHEET
PRE-BID MEETING

Agenda of Meeting;
NCB-WORKS/PICIIP-27: CIVIL WORKS FOR PARKING SHEDS AT SAHIWAL AND SIALKOT INCLUDING CONSTRUCTION OF BOUNDARY WALL AND GATE, SURVEILLANCE AND SECURITY SYSTEM, GUARD / DRIVER AND EQUIPMENT, OFFICE BUILDING AND ALLIED WORKS AT SAHIWAL AND SIALKOT


Date: 20th October 2022 at 11:00 am

#	Name	Designation	Organization	Cell No. & Email	Signature
1					
2	Muhammad Nasir Khan	Contract Specialist	Nespak	03005145613	
3	Anees Nadeem	Sr. Engrg.	NESPARK	0331-4112481	
4	Muhammad Javed	Sr. Q/S	NESPARK	0300-8169922	
5	Shahid Bashir	Sr. Manager BD	Elite Engineering Pvt Ltd.	03055552100 shahid.bashir@eliteengineering.com.pk	
6	Azeem Ashraf	Asst. Manager BD		03098885542 azeem.ashraf@eliteengineering.com.pk	
7	All Javid	Business Development Head	Code Creatis Associates	0345-4244482 codecreatisassociates@gmail.com	



PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM




8	SHAHID LATIF	DS (Dev) LG & CDD	LG & CDD	0321-743-4463	
9					
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Annex-B

Queries by Bidder	Reply by PMU, PICIP
Multiple AVL in tender documents which we are followed?	All materials and equipment should fulfill the requirements of the Specification of the Bidding Documents.
Indoor & Outdoor lightings system are mentioned in drawings but not in BOQ?	BOQ is attached herewith as an Annex-C, Addendum No.1.
SLD for DBs are in the tender document but not in BOQ? Is it contractor scope of supply?	Follows contractor's scope of work and submit shop drawings per the project's requirement.
Cable laying mentioned in the drawings but not quantify in BOQ? Pl. clarify	BOQ is attached herewith as an Annex-C, Addendum No.1.
CCTV cameras installed in the pole, but poles are not quantify in BQO? Pl. clarify poles is including or not	Poles are quantified in BOQ. Please see item no.02 of surveillance system for all three sites.
Supply of Fans, Sockets, and Lights for building works are in contractor scope nor not? Because these are not mentione in BOQ.	BOQ is attached herewith as an Annex-C, Addendum No.1.
Supply & Installation of Flood lights and poles are in the parts of contractor's scope or not? Because these items not mentioned in BOQ but drawings are available.	BOQ is attached herewith as an Annex-C, Addendum No.1.
We would like to request that an excel copy of the BoQ may please be forwarded to the participating contractors to help save time and effort	it is to inform you that BOQ in soft form is available at PMU, PICIP website along with Bidding Document but the Excel BOQ is not available for Bidders, and Bidders are encouraged to make the Excel BOQ and attached the same with their Financial Bids.
Secondly we need a clarification regarding item referred as 1-1 i.e. "Carriage of 100 Cft of all materials...". How do we calculate the 'lead' involved in the item or we base our rate on wild guess. Also, is this carriage related to disposal of earthwork or to all material that is brought to site?	BOQ item 6 of Parking Structure "Carriage of 100 Cft of all materials...." is MRS item 1 of chapter 1 and specific for the materials mentioned under the item, however, in the referred BOQ item, lead of crush aggregate for concrete work from approved query to the Site has been taken.


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**PARKING SHEDS AT FREED TOWN, SAHIWAL
BILL OF QUANTITIES FOR ELECTRIFICATION WORKS (N-MRS ITEMS)**

B-1.2 ELECTRIFICATION WORKS

Loan No. and Title:	3562-PAK: Punjab Intermediate Cities Improvement Investment Program (PICIIP)
Contract No. and Title:	NCB-Works/PICIP-27: Civil Works for Parking Sheds at Sahiwal and Sialkot including Construction of Boundary Wall and Gate, Surveillance and Security System, Guard / Driver and Equipment, Office Building and Allied Works at Sahiwal and Sialkot


Date: 03 November 2022

ADDENDUM No. 1

Subject: Amendment of Bid Document for NCB-Works/PICIP-27: Civil Works for Parking Sheds at Sahiwal and Sialkot including Construction of Boundary Wall and Gate, Surveillance and Security System, Guard / Driver and Equipment, Office Building and Allied Works at Sahiwal and Sialkot in accordance with Section 4 (Bill of Quantities) of Bidding Document

With reference to IFB Notice dated 11 October 2022, the following amendments have been made in the respective Section 4 (Bill of Quantities) of the Bidding Documents. The addendum shall be read and construed as an integral part of the Bidding Documents and shall take precedence in case of any conflict/ambiguities in the Bidding Documents and other provisions within. The changes mentioned herein below are applicable for Contract No: NCB-Works/PICIP-27, unless indicated otherwise.

1. Section 4 – Bill of Quantities


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PARKING SHEDS AT FREED TOWN, SAHIWAL

BILL OF QUANTITIES FOR ELECTRIFICATION WORKS (N-MRS ITEMS)

B-1.2 ELECTRIFICATION WORKS

Sr. No.	M.R.S (Item/Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
1(A)		<p>The Electrical Works include design, supply, transportation, installation, testing and commissioning of the following items of works as mentioned in this BOQ (unless specifically stated otherwise) including all material, labour, tools, accessories, related civil works, etc., as required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates. Bid price shall be final. No Separate payment will be made for any such material. The Contractor shall be bond to provided any such material after award of this contract for proper completion of the Electrical Installation Works.) Contractor is also advised to inform missing items (if any) in BoQ at time submitting the Supply, transportation, storage at site, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, accessories, etc. required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates.</p> <p>POWER CABLE</p>					



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Sr. No.	M.R.S (Item/Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
1.1(A)		Copper conductor PVC/PVC 600/1000V cables including sockets and connections at both ends with Cu/Brass glands, lugs ets alongwith all accessories. The cable shall be drawn in cable trench or clipped on the wall or pulled in cable tray/PVC pipes or as required or as shown on drawings. (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
a)	RA-15	2 core 10 mm ² (For Security Guard Room)	Rft.	450			
b)	RA-16	4 core 10 mm ² (For Area Lighting)	Rft.	4,500			
c)	RA-17	4 core 25 mm ² From MPB to DB-Office Building	Rft.	90			
d)	RA-18	4 core 50 mm ² From Transformer to MPB	Rft.	400			
1.2(A)		PVC insulated 450/750 Volt grade (Green - Yellow) unarmoured copper cable laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. sockets and connections at both ends with Cu/Brass, glands, lugs ets alongwith all accessories all accessories as required or as shown on drawings (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) as earth continuity conductor (ECC/CPC).					
	RA-19	1 core 10 mm ²	Rft.	4,950			
	RA-20	1 core 16 mm ²	Rft.	90			
	RA-21	1 core 25 mm ²	Rft.	600			


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B-1.2 ELECTRIFICATION WORKS

Sr. No.	M.R.S (Item/Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
2.0		<u>LIGHT FITTINGS AND FANS</u>					
2.1		Following LED Luminaries of suitable wattage make Philips, GE, Pierlite or approved equivalent suitable for the project requirements. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements. The fitting shall be approved by the Engineer.					
a)	RA-22	Light Fixture Type LED Batten Ceiling/Wall/surface mounted, 18W complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	13			
b)	RA-23	Light Fixture Type LED Batten Wall/surface mounted, 10W above mirror in toilets complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	9			
c)	RA-24	30W LED Water tight light fixture IP 65 complete in all respect with all allied accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	8			
	RA-25	Light Fixture Type LED Ceiling/surface mounted surface mounted down lighter, 18W complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	32			



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Sr. No.	M.R.S (Item/Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					In Figure	in Words	
e)	RA-26	Wall bracket Light Fixture Type LED 12W energy saving lamp with holder and complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	9			
f)	RA-27	56" ceiling fan sweep (Climax, Pak, Millat) make or approved equivalent.	Each	6			
g)	RA-28	Wall bracket fan 20" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	4			
h)	RA-29	Exhaust fan 12" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with Plastic body and all accessories etc.	Each	7			
3.0		<u>POLES & ACCESSORIES</u>					
a)	RA-30	10 m high single arm conical octagonal (hot dip) galvanized steel pole with extension arm luminaire arrangement, base plate, 2 Amp. SP MCB, (RC=10KA) circuit breaker, 05 Nos. Terminal block including end caps, base connection plates & end stopper etc. as shown on drawing.	Each	9			
b)	RA-31	Road Lighting Pole Foundation (Bitchmen Coating)	Each	9			


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Sr. No.	M.R.S (Item/Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
c)		Road Lighting LED Luminaries 90 Watt make Philips, GE, or approved equivalent, fully in compliance with the specified requirements suitable for the project requirements, fully IP 66 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system. The luminaries shall be fully flexible for future upgrades and easy replacements for maintenance purposes. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements.	Each	9			
d)	RA-32	LED Luminaries Flood lights Tango LED 30W or approved equivalent fully IP 65 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system.	Each	15			
e)	RA-33	PVC Junction box size 10"x08"x06" (for Flood Light connection) with frame clad 16 SWG, having high quality powder coated paint, color RAL 7032. suitable for connections with IP44 protection class, door, locking arrangement, terminal block, MCB, 6 kA , etc. and all other accessories as required for quality work. Junction box size 08"x06"x04" (for Flood Light connection)	Each	15			


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B-1.2 ELECTRIFICATION WORKS

Sr. No.	M.R.S (Item/ Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
-	-	01 No. 2 Amp. SP MCB, 6 kA					
-	-	05 Nos. Terminal block alongwith all accessories etc.,					
f)	RA-34	3 Nos. 1 core 2.5 mm ² Cu/PVC 450/750 Voltage grade cable (stranded conductor) (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) from pole junction box to the light fixture through the hollow of pole. 40 ft. cable is required for each pole and the unit is taken as No. Price per No.					
g)	RA-35	Locally manufactured decorative gate light with 9W LED complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	9			
4.0		<u>uPVC PIPE</u>	Each	4			
4.1		PVC pipe conduit with accessories suitable for laying single/multi-core cables.					
a)	RA-36	50 mm dia (Class-D)	Rft.	1,400			
b)	RA-37	100 mm dia (Class-B)	Rft.	1,450			
c)	RA-38	100 mm dia (Class-D)	Rft.	700			


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Sr. No.	M.R.S (Item/ Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					In Figure	in Words	
5.0		<u>DISTRIBUTION BOARDS</u>					
5.1		D.Bs with TP incoming adjustable moulded case circuit breaker and SP miniature outgoing circuit breakers, Panel box SWG 16 powder coated RAL colour 7032, IP class 44/ 54 and with all accessories. alongwith all installation and operational accessories as per specification or as shown on the drawings.					
(a)		<u>DB- Office Building</u>					
		<u>MATERIAL</u>		No.	1		
-	RA-39	01 No. 50 Amps (Adj.) MCCB TP, RC=25kA, Icu=100%Ics					
-		08 Nos. outgoing 10A, MCB, SP, RC=10 kA, Icu=100%Ics					
-		07 Nos.outgoing 20A, MCB, SP, RC=10 kA, Icu=100%Ics					
-		03 Nos. Spare 10/20A, MCB, SP, RC=10 kA, Icu=100%Ics					
-		03 Nos. Space for 10/20A, MCB					
-		Indication lights, push buttons, digital ammeter with selector switch, digital voltmeter with selector switch, Panel box SWG 16 powder coated RAL colour 7032, P class 44/ 54 and with all accessories.					
b)		<u>DB- Work Shop</u>					
		<u>MATERIAL</u>		No.	1		
-	RA-40	01 No. 25 Amps (Adj.) MCCB TP, RC=18kA, Icu=100%Ics					
-		01 No. 16 Amps (Adj.) MCCB TP, RC=18kA, Icu=100%Ics					
-		02 Nos. outgoing 10A, MCB, SP, RC=10 kA, Icu=100%Ics					


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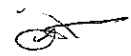
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					in Figure	in Words	
-		02 Nos.outgoing 20A, MCB, SP, RC=10 kA, lcu=100%lcs					
-		02 Nos. Spare 10/20A, MCB, SP, RC=10 kA, lcu=100%lcs					
-		03 Nos. Space for 10/20A, MCB					
-		Indication lights, push buttons, digital ammeter with selector switch, digital voltmeter with selector switch, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.					
c)		D.Bs with DP incoming MCB breaker and SP miniature circuit breakers as shown.					
		<u>DB- Security Guard Room</u>					
		MATERIAL					
-	RA-41	01 No. Incoming 32 Amp MCB , DP, RC= 10 kA	Each	2			
-		02 Nos. Outgoing 10 Amp MCB, SP, RC=10 kA					
-		01 No. Outgoing 20 Amp MCB, SP, RC=10 kA					
-		02 Nos. spare 10/20 Amp MCB, SP, RC=10 kA					
-		02 Nos. space 10/20 Amp MCB, SP, RC=10 kA					
-		Indication lights, digital voltmeter, digital ammeter, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.					

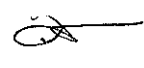

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6.0		<u>LV SWITCHGEAR / MAIN PANEL BOARD (MPB)</u>					
6.1		LV Switchgear Panel/Main Panel Board of 14 SWG, IP class 44/54 & RAL 7032 including I/C and O/G following electrical items, foundation/base frame with all installation and operational accessories as per site requirements, as per tender specifications and drawings and as directed by the Engineer.					
(a)	RA-42	<u>MPB</u>					
-	-	INCOMING		No.	1		
-	-	01 No. 100 Amps TP (adj.) MCCB, RC= 25 kA, Icu=100%Ics					
-	-	01 No. VSS (07 position)					
-	-	01 No. 0-600 Volts AC DIGITAL Voltmeter					
-	-	03 Nos. 100/5 Amps Current Transformers					
-	-	01 No. ASS (R-Y-B-OFF)					
-	-	01 No. 0-100 Amps AC DIGITAL Ammeter					
-	-	06 Nos. RYB and ON OFF TRIP LED indication lights					
-	-	14 SWG steel sheet Panel RAL 7032, IP= 44/54 and all other accessories.					
-	-	OUTGOING					
-	-	01 No. 50Amps., TP(adj.) MCCB, RC=25 kA, Icu=100%Ics (Office Building)					
-	-	01 No. 25Amps., TP(adj.) MCCB, RC=25kA, Icu=100%Ics (Work Shop)					


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-		02 Nos. 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 26 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting.					
-		02 Nos. 32Amp MCB DP, (Adj.) RC=10kA, Icu=100%Ics (Security guard Room)					
-		01 No. Spare 50 Amp MCCB TP, (Adj.) RC=25kA , Icu=100%Ics					
-		01 No. Spare 25 Amp MCCB TP, (Adj.) RC=25kA , Icu=100%Ics					
-		02 Nos. 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 26 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting.					
-		01 No. Spare 32Amp MCB DP, (Adj.) RC=10kA, Icu=100%Ics					
-		02 No. MCCB 25Amps TP, space					
-		All other accessories required for completion of the quality works including Cable gland and lugs etc.					
-		Electrolytic copper bus bar with electrical grade PVC mountings 3 for each, nuts, bolts and washers, control MCB etc. (200 Amps. R+Y+B N, 50 Hz, 415 V, AC) including cable glands at top/bottom entry for cable)					
-		Contractor shall submit the genuine certificate from the manufacturer/authorized agent clear by indicating the project name make/model/rating of MCCB, MCB, magnetic contactors, terminal blocks and voltmeters/ ammeter alongwith warranties.					



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**PROGRAM MANAGEMENT UNIT, PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM (PICIIP),
LOCAL GOVERNMENT AND COMMUNITY DEVELOPMENT (LG&CD) DEPARTMENT PUNJAB**

**PARKING SHEDS AT FREED TOWN, SAHIWAL
BILL OF QUANTITIES FOR ELECTRIFICATION WORKS (N-MRS ITEMS)**

B-1.2 ELECTRIFICATION WORKS


Sr. No.	M.R.S (Item/ Chap)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)	
					in Figure	in Words		
7.0		<u>EARTHING</u>						
7.1	RA-43	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground. The earthing rods shall be completed with fixing clamps etc.	No.	10				
8.0		<u>TRANSFORMER</u>						
8.1		11/0.415 kV Pole mounted Transformer complete with all accessories as per WAPDA specifications and practice including all required works for proper completion of civil/material works as per specification.						
a)	RA-44	50 kVA	Job	1				
8.2	RA-45	Provision for the cost of security deposit and obtaining of 11 kV electrical connection with installation, testing and commissioning including all material, labour, tools, accessories, etc. required for proper completion of each item as per specification of WAPDA/DISCO.	Lump-sum	1				
TOTAL NON-MRS							-	
TOTAL (MRS + NON-MRS)							-	


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**PROGRAM MANAGEMENT UNIT, PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM (PICIP), LOCAL GOVERNMENT AND
 COMMUNITY DEVELOPMENT (LG&CD) DEPARTMENT PUNJAB
 PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
 BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

**B - 2.2 ELECTRICAL WORKS
 Bill No. 2 NON-MRS ITEMS**


Sr. No.	M.R.S 2nd BI-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					In Figure	in Words	
		<p>The Electrical Works include design, supply, transportation, installation, testing and commissioning of the following items of works as mentioned in this BOQ (unless specifically stated otherwise) including all material, labour, tools, accessories, related civil works, etc., as required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates. Bid price shall be final. No Separate payment will be made for any such material. The Contractor shall be bond to provided any such material after award of this contract for proper completion of the Electrical Installation Works.) Contractor is also advised to inform missing items (if any) in BoQ at time submitting the Supply, transportaion, storage at site, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, accessories, etc. required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates.</p>					


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COMMUNITY DEVELOPMENT (LG&CD) DEPARTMENT PUNJAB
PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

B - 2.2 ELECTRICAL WORKS
Bill No. 2 NON-MRS ITEMS


Sr. No.	M.R.S 2nd BI-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
(A)		POWER CABLE					
1(A)		Copper conductor PVC/PVC 600/1000V cables including sockets and connections at both ends with Cu/Brass glands, lugs ets alongwith all accessories. The cable shall be drawn in cable trench or clipped on the wall or pulled in cable tray/PVC pipes or as required or as shown on drawings. (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
a)	RA-16	2 core 10 mm ² (For Security Guard Room)	Rft.	700			
b)	RA-17	4 core 10 mm ² (For Area Lighting)	Rft.	5,100			
c)	RA-18	4 core 25 mm ² From MPB to DB-Office Building	Rft.	90			
d)	RA-19	4 core 50 mm ² From Transformer to MPB	Rft.	400			
2(A)		PVC insulated 450/750 Volt grade (Green - Yellow) unarmoured copper cable laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. sockets and connections at both ends with Cu/Brass, glands, lugs ets alongwith all accessories all accessories as required or as shown on drawings (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) as earth continuity conductor (ECC/CPC).					
	RA-20	1 core 10 mm ²	Rft.	5,800			
	RA-21	1 core 16 mm ²	Rft.	90			
	RA-22	1 core 25 mm ²	Rft.	740			
#		LIGHT FITTINGS AND FANS					


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PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

**B - 2.2 ELECTRICAL WORKS
Bill No. 2 NON-MRS ITEMS**


Sr. No.	M.R.S 2nd BI-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
##		Following LED Luminaries of suitable wattage make Philips, GE, Pierlite or approved equivalent suitable for the project requirements. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements. The fitting shall be approved by the Engineer.					
a)	RA-23	Light Fixture Type LED Batten Ceiling/Wall/surface mounted, 18W complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	17			
b)	RA-24	Light Fixture Type LED Batten Wall/surface mounted, 10W above mirror in toilets complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	10			
c)	RA-25	30W LED Water tight light fixture IP 65 complete in all respect with all allied accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	8			
d)	RA-26	Light Fixture Type LED Ceiling/surface mounted surface mounted down lighter, 18W complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	25			
	RA-27	Wall bracket Light Fixture Type LED 12W energy saving lamp with holder and complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	10			
f)	RA-28	56" ceiling fan sweep (Climax, Pak, Millat) make or approved equivalent.	Each	7			
g)	RA-29	Wall bracket fan 20" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	3			


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Bill No. 2 NON-MRS ITEMS


Sr. No.	M.R.S 2nd BI-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
h)	RA-30	Exhaust fan 12" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with Plastic body and all accessories etc.	Each	7			
##		<u>POLES & ACCESSORIES</u>					
a)	RA-31	10 m high single arm conical octagonal (hot dip) galvanized steel pole with extension arm luminaire arrangement, base plate, 2 Amp. SP MCB, (RC=10KA) circuit breaker, 05 Nos. Terminal block including end caps, base connection plates & end steeper etc. as shown on drawing.	Each	12			
b)	RA-32	Road Lighting Pole Foundation (Bitchmen Coating)	Each	12			
		Road Lighting LED Luminaries 90 Watt make Philips, GE, or approved equivalent, fully in compliance with the specified requirements suitable for the project requirements, fully IP 66 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system. The luminaries shall be fully flexible for future upgrades and easy replacements for maintenance purposes. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project	Each	12			
d)	RA-33	LED Luminaries Flood lights Tango LED 30W or approved equivalent fully IP 65 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system.	Each	21			


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PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

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Sr. No.	M.R.S 2nd Bi-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
e)	RA-34	PVC Junction box size 08"x06"x04" (for Flood Light connection) with frame clad 16 SWG, having high quality powder coated paint, color RAL 7032. suitable for connections with IP44 protection class, door, locking arrangement etc. and all other accessories as required for quality work. Junction box size 08"x06"x04" (for Flood Light connection) 01 No. 2 Amp. SP MCB, 6 kA 05 Nos. Terminal block alongwith all accessories etc.,	Each	21			
f)	RA-35	3 Nos. 1 core 2.5 mm ² Cu/PVC 450/750 Voltage grade cable (stranded conductor) (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) from junction box to the fitting through the hollow of pole. 40 ft. cable is required for each pole and the unit is taken as No. Price per No.	Each	12			
g)	RA-36	Locally manufactured decorative gate light with 9W LED complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	4			
4.0		uPVC PIPE					
4		PVC pipe conduit with accessories suitable for laying single/multi-core cables.					
a)	RA-37	50 mm dia (Class-D)	Rft.	1,950			
b)	RA-38	100 mm dia (Class-B)	Rft.	1,600			
c)	RA-39	100 mm dia (Class-D)	Rft.	500			


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BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

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
Sr. No.	M.R.S 2nd BI-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
##		<u>DISTRIBUTION BOARDS</u>					
5		D.Bs with TP incoming adjustable moulded case circuit breaker and SP miniature outgoing circuit breakers, Panel box SWG 16 powder coated RAL colour 7032, IP class 44/ 54 and with all accessories, alongwith all installation and operational accessories as per specification or as shown on the drawings.					
(a)	RA-40	<u>DB- Office Building</u> MATERIAL 01 No. 50 Amps (Adj.) MCCB TP, RC=25kA, Icu=100%Ics 08 Nos. outgoing 10A, MCB, SP, RC=10 kA, Icu=100%Ics 09 Nos.outgoing 20A, MCB, SP, RC=10 kA, Icu=100%Ics 04 Nos. Spare 10/20A, MCB, SP, RC=10 kA, Icu=100%Ics 03 Nos. Space for 10/20A, MCB Indication lights, push buttons, digital ammeter with selector switch, digital voltmeter with selector switch, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.	No.	1			
	RA-41	<u>DB- Security Guard Room</u> MATERIAL 01 No. Incoming 32 Amp MCB , DP, RC=10 kA 02 Nos. Outgoing 10 Amp MCB, SP, RC=10 kA 01 No. Outgoing 20 Amp MCB, SP, RC=10 kA 02 Nos. spare 10/20 Amp MCB, SP, RC=10 kA 02 Nos. space 10/20 Amp MCB, SP, RC=10 kA	Each	2			


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B - 2.2 ELECTRICAL WORKS
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Sr. No.	M.R.S 2nd Bi-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
-		Indication lights, digital voltmeter, digital ammeter, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.					
6.0		<u>LV SWITCHGEAR / MAIN PANEL BOARD (MPB)</u>					
6		LV Switchgear Panel/Main Panel Board of 14 SWG, IP class 44/54 & RAL 7032 including I/C and O/G following electrical items, foundation/base frame with all installation and operational accessories as per site requirements, as per tender specifications and drawings and as directed by the Engineer.					
(a)	RA-42	<u>MPB</u> INCOMING 01 No. 100 Amps TP (adj.) MCCB, RC= 25 kA, Icu=100%Ics 01 No. VSS (07 position) 01 No. 0-600 Volts AC DIGITAL Voltmeter 03 Nos. 100/5 Amps Current Transformers 01 No. ASS (R-Y-B-OFF) 01 No. 0-100 Amps AC DIGITAL Ammeter 06 Nos. RYB and ON OFF TRIP LED indication lights 14 SWG steel sheet Panel RAL 7032, IP= 44/54 and all other accessories, OUTGOING 01 No. 50A TP(adj.) MCCB, RC=18 kA, Icu=100%Ics (Office Building) 02 Nos. 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 25 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting. 02 Nos. 32Amp MCB DP, (Adj.) RC=10kA, Icu=100%Ics (Security guard Room)	No.	1			


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 PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
 BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

B - 2.2 ELECTRICAL WORKS
 Bill No. 2 NON-MRS ITEMS


Sr. No.	M.R.S 2nd Bi-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
-		01 No. Spare 50 Amp MCCB TP, (Adj.) RC=25kA, Icu=100%Ics					
-		01 No. Spare 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 25 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting.					
-		01 No. Spare 32Amp MCB DP, (Adj.) RC=10kA, Icu=100%Ics					
-		02 No. MCCB 25Amps TP, space					
-		All other accessories required for completion of the quality works including Cable gland and lugs etc.					
-		Electrolytic copper bus bar with electrical grade PVC mountings 3 for each, nuts, bolts and washers, control MCB etc. (200 Amps. R+Y+B N, 50 Hz, 415 V, AC) including cable glands at top/bottom entry for cable)					
-		Contractor shall submit the genuine certificate from the manufacturer/authorized agent clear by indicating the project name make/model/rating of MCCB, MCB, magnetic contactors, terminal blocks and voltmeters/ ammeter alongwith warranties.					


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 COMMUNITY DEVELOPMENT (LG&CD) DEPARTMENT PUNJAB
 PARKING SHEDS AT MUBARAK PURA CAPITAL ROAD, SIALKOT
 BILL OF QUANTITIES FOR ELECTRICAL WORKS (N-MRS ITEMS)**

**B - 2.2 ELECTRICAL WORKS
 Bill No. 2 NON-MRS ITEMS**

Sr. No.	M.R.S 2nd Bi-Annual 2022 (Chap/Item)	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)	
					in Figure	in Words		
7.0		<u>EARTHING</u>						
7.1	RA-43	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground. The earthing rods shall be completed with fixing clamps etc.	No.	12				
8.0		<u>TRANSFORMER</u>						
8.1		11/0.415 kV Pole mounted Transformer complete with all accessories as per WAPDA specifications and practice including all required works for proper completion of civil/material works as per specification.						
a)	RA-44	50 kVA	Job	1				
8.2	RA-45	Provision for the cost of security deposit and obtaining of 11 kV electrical connection with installation, testing and commissioning including all material, labour, tools, accessories, etc. required for proper completion of each item as per specification of WAPDA/DISCO.	Lumpsum	1				
TOTAL FOR NON-MRS ITEMS							-	
TOTAL (MRS+ Non-MRS)							-	



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**PROGRAM MANAGEMENT UNIT, PUNJAB INTERMEDIATE CITIES IMPROVEMENT INVESTMENT PROGRAM (PICIP),
LOCAL GOVERNMENT AND COMMUNITY DEVELOPMENT (LG&CD) DEPARTMENT PUNJAB**


**PARKING SHEDS AT ALLAMA IQBAL TOWN, SIALKOT
ENGINEER'S COST ESTIMATE FOR ELECTRICAL WORKS (NON-MRS ITEMS)**

B - 3.2 ELECTRICAL WORKS
Bill No. 2 NON-MRS ITEMS


Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
		<p>IMPORTANT NOTES (Applicable to all Electrical Items)</p> <p>All electrical items given below shall be read in conjunction with parts of the Specifications and electrical drawings except otherwise indicated.</p> <p>The Electrical Works include design, supply, transportation, installation, testing and commissioning of the following items of works as mentioned in this BOQ (unless specifically stated otherwise) including all material, labour, tools, accessories, related civil works, etc., as required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates. Bid price shall be final. No Separate payment will be made for any such material. The Contractor shall be bond to provided any such material after award of this contract for proper completion of the Electrical Installation Works.) Contractor is also advised to inform missing items (if any) in BoQ at time submitting the tender.</p> <p>Supply, transportation, storage at site, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, accessories, etc. required for proper completion of each item as per specifications unless otherwise mentioned. (Any necessary material not mentioned in specifications, electrical drawings and here in this BOQ required for proper installation, testing and commissioning of equipment and materials shall be included in BOQ rates.</p>					


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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
1(A)		POWER CABLE					
1.1(A)		Copper conductor PVC/PVC 600/1000V cables including sockets and connections at both ends with Cu/Brass glands, lugs ets alongwith all accessories. The cable shall be drawn in cable trench or clipped on the wall or pulled in cable tray/PVC pipes or as required or as shown on drawings. (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
a)	RA-16	2 core 10 mm ² (For Security Guard Room)	Rft.	100			
b)	RA-17	4 core 10 mm ² (For Area Lighting)	Rft.	2,950			
c)	RA-18	4 core 16 mm ² From Transformer to MPB	Rft.	250			
1.2(A)		PVC insulated 450/750 Volt grade (Green - Yellow) unarmoured copper cable laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. sockets and connections at both ends with Cu/Brass, glands, lugs ets alongwith all accessories all accessories as required or as shown on drawings (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) as earth continuity conductor (ECC/CPC).					
a)	RA-20	1 core 10 mm ²	Rft.	3,050			
b)	RA-21	1 core 16 mm ²	Rft.	250			
	RA-22	1 core 25 mm ²	Rft.	150			


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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
2.0		<u>LIGHT FITTINGS AND FANS</u>					
2.1	RA-26	Following LED Luminaries of suitable wattage make Philips, GE, Pierlite or approved equivalent suitable for the project requirements. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements. The fitting shall be approved by the Engineer.					
a)		Light Fixture Type LED Batten Ceiling/Wall/surface mounted, 18W complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	2			
b)	RA-27	Wall bracket Light Fixture Type LED 12W energy saving lamp with holder and complete in all respect with allied accessories. The fitting shall be approved by the Engineer.	Each	1			
c)	RA-29	Wall bracket fan 20" sweep make (Royal, Pak, Millat or approved equivalent) capacitor type, copper winding complete with all accessories or approved equivalent. The fitting shall be approved by the Engineer.	Each	1			
3.0		<u>POLES & ACCESSORIES</u>					
a)	RA-31	10 m high single arm conical octagonal (hot dip) galvanized steel pole with extension arm luminaire arrangement, base plate, 2 Amp. SP MCB, (RC=10KA) circuit breaker, 05 Nos. Terminal block including end caps, base connection plates & end stopper etc. as shown on drawing.	Each	11			
b)	RA-32	Road Lighting Pole Foundation (Bitumen Coating)	Each	11			
		Road Lighting LED Luminaries 90 Watt make Philips, GE, or approved equivalent, fully in compliance with the specified requirements suitable for the project requirements, fully IP 66 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system. The luminaries shall be fully flexible for future upgrades and easy replacements for maintenance purposes. Contractor to submit lighting design calculation to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements.	Each	11			


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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
d)	RA-33	LED Luminaries Flood lights Tango LED 30W or approved equivalent fully IP 65 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system.	Each	6			
e)	RA-34	PVC Junction box size 08"x06"x04" (for Flood Light connection) with frame clad 16 SWG, having high quality powder coated paint, color RAL 7032. suitable for connections with IP44 protection class, door, locking arrangement etc. and all other accessories as required for quality work.	Each	6			
-	-	Junction box size 08"x06"x04" (for Flood Light connection)					
-	-	01 No. 2 Amp. SP MCB, 6 KA					
-	-	05 Nos. Terminal block alongwith all accessories etc.,					
f)		3 Nos. 1 core 2.5 mm ² Cu/PVC 450/750 Voltage grade cable (stranded conductor) (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) from junction box to the fitting through the hollow of pole.					
-	RA-35	40 ft. cable is required for each pole and the unit is taken as No. Price per No.	Each	11			
g)	RA-36	Locally manufactured decorative gate light with 9W LED complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	2			
4.0		<u>UPVC PIPE</u>					
4.1		PVC pipe conduit with accessories suitable for laying single/multi-core cables.					
	RA-37	50 mm dia (Class-D)	Rft.	800			
	RA-38	100 mm dia (Class-B)	Rft.	1,400			
	RA-39	100 mm dia (Class-D)	Rft.	400			
5.0		<u>DISTRIBUTION BOARDS</u>					
5.1		D.Bs with DP incoming and SP outgoing miniature circuit breakers, Panel box SWG 16 powder coated RAL colour 7032, IP class 44/ 54 and with all accessories, alongwith all installation and operational accessories as per specification or as shown on the drawings.					


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 (b)
 (c)
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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
a)		DB- Security Guard Room					
-	RA-41	MATERIAL					
-		01 No. Incoming 32 Amp MCB, DP, RC=10 kA		1			
-		02 Nos. Outgoing 10 Amp MCB, SP, RC=10 kA					
-		01 No. Outgoing 20 Amp MCB, SP, RC=10 kA					
-		02 Nos. spare 10/20 Amp MCB, SP, RC=10 kA					
-		02 Nos. spare 10/20 Amp MCB, SP, RC=10 kA					
-		Indication lights, digital voltmeter, digital ammeter, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.					


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 PGI/PL LG&CD Department
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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
6.0		LV SWITCHGEAR / MAIN PANEL BOARD (MPB)					
6.1		LV Switchgear Panel/Main Panel Board of 14 SWG, IP class 44/54 & RAL 7032 including I/C and O/G following electrical items, foundation/base frame with all installation and operational accessories as per site requirements, as per tender specifications and drawings and as directed by the Engineer.					
(a)	RA-42	MPB INCOMING 01 No. 50 Amps TP (adj.) MCCB, RC= 25 kA, Icu=100%Ics 01 No. VSS (07 position) 01 No. 0-60 Volts AC DIGITAL Voltmeter 03 Nos. 60/5 Amps Current Transformers 01 No. ASS (R-Y-B-OFF) 01 No. 0-60 Amps AC DIGITAL Ammeter 06 Nos. RYB and ON OFF TRIP LED indication lights 14 SWG steel sheet Panel RAL 7032, IP= 44/54 and all other accessories, OUTGOING 02 Nos. 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 26 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting. 01 No. 32Amp MCCB DP, (Adj.) RC=10kA, Icu=100%Ics 01 No. Spare 16 Amp MCCB TP, (Adj.) RC=25kA , Icu=100%Ics 02 Nos. 16 Amp MCCB TP, (Adj.) RC=18kA, Icu=100%Ics with 26 Amp. Magnetic Contactor including Push button (ON/OFF) & Indication lights for Area / Shed Lighting. 01 No. Spare 32Amp MCCB DP, (Adj.) RC=10kA, Icu=100%Ics 02 No. MCCB 25Amps TP, space All other accessories required for completion of the quality works including Cable gland and lugs etc. Electrolytic copper bus bar with electrical grade PVC mountings 3 for each, nuts, bolts and washers, control MCB etc. (100 Amps. R+Y+B N, 50 Hz, 415 V, AC) including cable glands at top/bottom entry for cable) Contractor shall submit the genuine certificate from the manufacturer/authorized agent clear by indicating the project name make/model/rating of MCCB, MCB, magnetic contactors, terminal blocks and voltmeters/ ammeter alongwith warranties.	No.	1			
7.0		EARTHING					

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Item No.	Reference	Description	Unit	Qty.	Rate (Rs.)		Total Amount (Rs.)
					in Figure	in Words	
7.1	RA-43	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground. The earthing rods shall be completed with fixing clamps etc.	No.	6			
8.0		<u>TRANSFORMER</u>					
8.1		11/0.415 kV Pole mounted Transformer complete with all accessories as per WAPDA specifications and practice including all required works for proper completion of civil/material works as per specification.					
a)	RA-44	25 kVA	Job	1			
8.2	RA-45	Provision for the cost of security deposit and obtaining of 11 kV electrical connection with installation, testing and commissioning including all material, labour, tools, accessories, etc. required for proper completion of each item as per specification of WAPDA/DISCO.	Lumpsum	1			
TOTAL FOR NON-MRS ITEMS							-
TOTAL (MRS + Non-MRS)							-

This Addendum shall now serve as a mandatory part of the bidding document for the relevant sections and shall be referred to while preparing the bid.



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