

LOGESTIC PARK NATHE KHALSA, MULTAN ROAD. (HYBRID SYSTEM) ANNEXURE-B				
SR NO	PAGE NO	DESCRIPTION	AMOUNT	Remarks
1	D-1	HT & LT MATERIAL COST (Hybrid)		
2	D-2	HT & LT CONTRACT WORK COST (Hybrid)		
3	D-3	Cost Estimate of 11 KV FEEDER SOP (Over head)		
4	D-4	Estimated Cost of Connection arrangement for Pad mounted Transformer (4- No.)		
		<b>TOTAL ESTIMATED COST</b>		

Note: Rates are exclusive of PRA Tax @16%

LOGESTIC PARK NATHE KHALSA, MULTAN ROAD. (HYBRID SYSTEM) ANNEXURE-B

SR #	DESCRIPTION	Unit	Qty	Unit Price	Total Price	Make	Specifications
1	Pad/Pole Mounted Distribution Transformers as per WAPDA Specifications amended to date:					PEL	As Per Wapda Specifications
	- 1250 KVA (Pad Mounted)	No	1				
	- 400 KVA ( Pad Mounted)		1				
	- 400 KVA ( Pole Connected)	No	1				
	- 200 KVA ( Pad Mounted)	No	2				
2	Pad Mounted H T Switches as per WAPDA Specifications : No. DD-S-46:2009 amended to date 3-Way						Pad Mounted H T Switches as per WAPDA Specifications : No. DD-S-46:2009 amended to date
	3Way	No					
3	HT cables Aluminum 15 KV Class. As per WAPDA's Specifications No. P -29:2010 amended to date					Fast Cables	As per WAPDA's Specifications No. P -29:2010 amended to date
	.- 3-Core 120 mm <sup>2</sup> XLPE/PVC/SWA/PVC	M	936				
	.- 3-Core 35 mm <sup>2</sup> XLPE/PVC/SWA/PVC	M	54				
4	Termination Kits for HT Cables item including Bi metallic Lugs As per WAPDA's Specifications No. P-184:86. amended to date					Recheme Heat Shrink	As per WAPDA's Specifications No. P-184:86. amended to date
	- HT 3- Core 35 mm <sup>2</sup> in door type	Nos	4				
	- HT 3- Core 35 mm <sup>2</sup> out door type	Nos	4				
	- HT 3- Core 120 mm <sup>2</sup> in door type	Nos	12				
	- HT 3- Core 120 mm <sup>2</sup> out door type	Nos	2				
5	<b>Earthing set complete with accessories</b> as per WAPDA Specifications No. P-116 :81 amended to date	SET	11			Wapda Approved	As per WAPDA Specifications No. P-116 :81 amended to date
6	GI wire ( 10 mm dia) for Earthing of Pad Mounted Transformers and LT Distribution Boxes (6 KG Per Earth)	KG	66			Black Steel	As per WAPDA Specifications
	<b>G. Total Of HT &amp; LT Material</b>			<b>Rs =</b>			
	<b>TOTAL COST</b>			<b>Rs =</b>			

LOGESTIC PARK NATHE KHALSA, MULTAN ROAD. (HYBRID SYSTEM) ANNEXURE-B

S NO.	DESCRIPTION	UNIT	QTY.	Rate	Amount
A-1	Preparation of Foundations for following Pad Mounted HT Switches, conforming to requirements, technical specification, Standards, Drawings etc; and to the approval of the Consultant. (b) - 3-way type	EACH	1		
A-2	Preparation of foundations for following Pad Mounted Distribution Transformers conforming to requirements, technical specification, Standards, Drawings etc: and to the approval of the Consultant. - 1250 KVA - 400 KVA - 200 KVA	EACH EACH EACH	1 1 2		
A-3	Preparation of foundations for LT distribution Boxes conforming to requirements, technical specification, Standards, Drawings etc: and to the approval of the Consultant.	EACH	0		
A-3	Preparation of HT Substation building as per LESCO standards for installation of 11KV VCB Panels.	Job	0		
<b>I- SUB TOTAL</b>					

B-1	Excavation of every type of trench in any type of soil within the project area for laying of HT & LT cables, as per dimensions given on the drawings, and to the approval of the Consultant.	m3	357.72		
B-2	Back filling of any type of trench already excavated as per Item B-1, after laying various cables (HT & LT) including sand, protective bricks and excavated earth compacted in layers not exceeding 9 in thick, site cleaning etc: as per Drawings, and to the approval of the Consultant.				
	(a) Sand (Bed and Cover)	m3	83.84		
	(b) Bricks (Protection Cover) (3" thick).	m2	400.915		
	(c) Excavated earth back filling and compaction.	m3	243.411		
	(d) Warning Tape .2mmx300mm	RM	801.8		
<b>II- SUB TOTAL</b>					
<b>TOTAL ( I + II)</b>					

LOGESTIC PARK NATHE KHALSA, MULTAN ROAD. (HYBRID SYSTEM) ANNEXURE-B

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>Make</b>	<b>UNIT</b>	<b>QTY.</b>	<b>COST PER UNIT</b>	<b>TOTAL COST</b>
2	HT STEEL STRUCTURE 36'	Black Steel	No.	3		
7	Conductor (HT) DOG	Fast Cables	Km.	2.21		
8	Angle Iron X-Arm with braces	Black Steel	No.	84		
9	Angle Iron X-Arm Step braces	Black Steel	No.	84		
10	Disc Insulators (11KV)	EMCO	No.	111		
11	Dead End Clamps for DOG Conductor	Black Steel	No.	111		
12	G.S Eye Nut 5/8 inch dia	Black Steel	No.	111		
13	Anchor Schackle	Black Steel	No.	111		
14	G.S Bolt 5/8" dia 2" length	Black Steel	No.	168		
15	G.S Bolt 5/8" dia 9" length	Black Steel	No.	15		
16	G.S Bolt 5/8" dia 10" length	Black Steel	No.	0		
17	D.A Bolts with Nuts .	Black Steel	No.	102		
18	Round Washer 1.75" dia 0.693" H	Black Steel	No.	32		
19	Pin Insulator	EMCO	No.	72		
20	Insulator Pin	EMCO	No.	72		
21	Earthing set with clamp for Spun Poles & Steel Structure	Local Markete	No.	10		
22	Stay Assembly Complete (Ord.)	Black Steel	No.	18		
23	Stay Strip	Black Steel	No.	18		

24	Parallel Grove Connectors (T-150)	Black Steel	No.	54		
25	Barbed Wire	Black Steel	Kg.	20		
26	Galvanized Steel Wire 10 sq. mm	Black Steel	Kg.	312		
27	Danger Plate with Fitting	Black Steel	No.	10		
	<b>Cost of Material</b>		<b>Rs.</b>			
	<b>CONTRACT WORKS</b>					
	Foundation for HT Steel Structure 36-Feet		No.	3		
	Contract Work for Earthing Set		No.	10		
	Contract Work for Stay Assembly		No.	18		
	Sub Total of Contract Work		Rs.			
	<b>Total Cost</b>		<b>Rs.</b>			

## LOGESTIC PARK NATHE KHALSA, MULTAN ROAD. (HYBRID SYSTEM) ANNEXURE-B

SR. NO.	DESCRIPTION	Make	UNIT	QTY.	COST PER UNIT	TOTAL COST
1	Pin Insulators	EMCO	No.	3		
2	Insulator Pins	BLACK STEEL	No.	3		
3	Steel CrossArm	BLACK STEEL	No.	1		
4	Steel CrossArm for D-Fuse Fitting	BLACK STEEL	No.	1		
5	Drop-out Cut-out Assembly	BLACK STEEL	No.	3		
6	Conductor Rabbit	FAST CABLES	Mtr.	20		
7	Parallel Grove Connectors (T-110)	BLACK STEEL	No.	3		
8	M.S Bolt 5/8" dia, 9" length	BLACK STEEL	No.	2		
9	M.S Bolt 5/8" dia, 10" length	BLACK STEEL	No.	4		
10	M.S Bolt 5/8" dia, 16" length	BLACK STEEL	No.	4		
11	Square Washer	BLACK STEEL	No.	14		
12	Round Washer 1.75 dia. 0.693 hole	BLACK STEEL	No.	4		
13	4" dia uPVC Pipe	Popular Pipes Class -D)	Feet	20		
14	Long Radius PVC Bend	Popular Pipes Class -D)	No.	1		
15	M.S. Clamps for pipe fixing with pole	BLACK STEEL	No.	4		
16	M.S. Clamps for Termination Holding with pole	BLACK STEEL	No.	1		
17	Construction foam /Sealing Material	BLACK STEEL	lot	1		
	Cost of Material of 1 No. substation		Rs.			
a	Cost of 04- No. substation		Rs.	3		
<b>Total Cost (a+b)</b>			<b>Rs.</b>			<b>-</b>

**Consultancy Services for “Fire Detection, Alarm & Suppression System  
NLC Logistic Park at Nathe Khalsa Lahore**

<b>Sr#</b>	<b>Deliverables</b>	<b>Unit</b>	<b>Rate</b>
	<b>Fire Hydrant System Design</b>		
1	Design of Fire Hydrant System According to NFPA.	1-Job	
2	Installation Design of Fire Hydrant System.		
3	Node Diagrams.		
4	Software Generated Hydraulic Calculations.		
5	Siesmic Bracing Marking on the layout.		
6	Water Load Calculation For Piping.		
7	BOM (Bill of Material) For Fire Hydrant System		
	<b>Note: This is for the All external &amp; Internal Area of the facility.</b>		
	<b>Fire Sprinkler System Design</b>		
1	Design of Fire Sprinkler System According to NFPA.	1-Job	
2	Installation Design of Fire Sprinkler System.		
3	Node Diagrams.		
4	Software Generated Hydraulic Calculations.		
5	Siesmic Bracing Marking on the layout.		
6	Water Load Calculation For Piping.		
7	BOM (Bill of Material) For Fire Sprinkler System		
	<b>Fire Detection &amp; Alarm System Design</b>		
1	Design of Fire Detection System According to NFPA.	1-Job	
2	Installation Design of Fire Alarm System.		
3	Battery Calculation.		

4	BOM (Bill of Material) For Fire Detection & Alarm System		
	<b>Training for fire system maintenance personnel</b>		
1	Training for fire system maintenance personnel on inspection, testing, and maintenance (ITM) procedures in accordance with NFPA standards. (Three Days) (Max Participant (20)	1-Job	
	<b>Supervision and advisory charges</b>		
1	Four site visits for the supervision and quality assurance	1-Job	
2	Continuous remote guidance throughout the installation phase until completion of the fire protection system.		
3	Witnessing and validation of system commissioning to ensure functionality and compliance		
4	Technical guidance on equipment specifications to support procurement and installation accuracy.		
<b>Grand Total Amuont</b>			