

BILL OF QUANTITIES		PRICE BID -PART-II			
1	Name of the work	Electrification of Fan Testing Station			
3	EMD Amount	Rs 60000.00			
6	Period of Contract	Three Months			
SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<p>Erection ,Testing and commissioning of Converter Transformer 3 PH,11 KV/ 2 X 1800V, 4000 KVA (Current Rating Primary :210A , LV1 Secondary :679A, LV2 Secondary :679A) , 3 Winding , outdoor Transformer size of (Compact sizing) 3150 L X 2800 D X 3200 H (Dimensions in mm) with necessary fixtures etc. approximate weight is 11000 kg.</p> <p>Along with</p> <p>Supply of 40 mm size blue metals and spread throughout the 4000KVA Transformer yard for a height of 100 mm . Yard size =0.1m X 8m X8m. of 6.4 cubic meter.</p> <p>and</p> <p>Supply and erection of fence for the 8 mX8 m yard, (4 Side) Each panel size should be 1m width X 1.8 m height. The Panel outer frame shall be fabricated using 50 X 6 angles with an intermediate support. The panel shall be fabricated using 3 mm thick wire mesh which is having a maximum of 50 mm X 25 mm holes. The entry door to the yard shall be provided using the same panel with hinges and pad lock. The fence shall be supported at least once in 2 m length of the fence by providing proper concrete foundation at least for 0.5 m depth below ground level. Painting with one coat of Red oxide and Two coat of Aluminum Paint. OEM supplier will be available for the Overall supervision of the work. Transformer will be provided by BHEL at free of cost.</p>	SET	1		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2	Erection ,Testing and commissioning of Isolation transformer 3 PH,415/415 V,700 KVA (Current Rating primary :918.5A , Secondary :918.5A) Transformer size of (Compact sizing) 1750 L X 1500 D X 1800 H (Dimensions in mm) with necessary fixtures etc. approximate weight is 3200 kg.	SET	1		
	Along with				
	Supply of40 mm size blue metals and spread throughout the 700 KVA Transformer yard for a height of 100 mm . Yard size =0.1m X 8 m X 8 m, of 6.4 cubic meter.				
	and				
	Supply and erection of fence for the 8 m X 8 m yard, (3 Side) Each panel size should be 1m width X 1.8 m height. The Panel outer frame shall be fabricated using 50 X 6 angle With an intermediate support. The panel shall be fabricated using 3 mm thick wire mesh which is having a maximum of 50 mm X 25 mm holes . The entry door to the yard shall be provided using the same panel with hinges and pad lock. The fence shall be supported at least once in 2 m length of the fence by providing proper concrete foundation at least for 0.5 m depth below ground level. Painting with one coat of Red oxide and Two coat of Aluminum Paint. OEM supplier will be available for the overall supervision of the work. Transformer will be provided by BHEL at free of cost.				
3	Erection and Commissioning of IGBT based VFD 3000KW Panel size of 3200 L x 1200 D x 2600 H (Dimensions in mm) with necessary materials etc. approximate weight is 2500kg. OEM supplier will be available for the overall supervision of the work. IGBT based VFD 3000KW panel will be provided by BHEL at free of cost.	NO	1		
4	Erection and Commissioning of IGBT based VFD 500 KW Panel size of 2600 L x 600 D x 2300 H (Dimensions in mm) with necessary materials etc. approximate weight is 1500 kg. OEM supplier will be available for the overall supervision of the work. IGBT based VFD 500 KW panel will be provided by BHEL at free of cost.	NO	1		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	Erection, Testing & Commissioning of Resistor Panel size of 1500 L X 1400 D X 3000 H (Dimensions in mm) [for VFD 3000 KW motor] with necessary materials etc. approximate weight is 500kg. Resistance box will be supplied by BHEL free of cost.	NO	2		
6	Erection ,Testing & commissioning of PLC panel of size 800 L X 800 D X 2500 H (Dimensions in mm) [for 3000 KW motor] with necessary materials etc. approximate weight is 300 kg. OEM supplier will be available for the overall supervision of the work. PLC panel will be provided by BHEL at free of cost.	NO	1		
7	Erection ,Testing and commissioning of control panel of size 750 L X 600 D X 2200 H (Dimensions in mm) [for 500 KW&3000 KW motor] with necessary materials etc. approximate weight is 300 kg. OEM supplier will be available for the overall supervision of the work. Control panel will be provided by BHEL at free of cost.	NO	1		
8	Erection ,Testing and Commissioning of control Desk of size 1000 L X 1000 D X 1300 H (Dimensions in mm) [for 500KW motor] with necessary materials etc. approximate weight is 500 kg. OEM supplier will be available for the overall supervision of the work. Control desk will be provided by BHEL at free of cost.	NO	1		
9	Erection ,Testing and Commissioning of control Desk of size 1000 L X 1000 D X 1300 H (Dimensions in mm) [for 3000 KW motor] with necessary materials etc. approximate weight is 500 kg. OEM supplier will be available for the overall supervision of the work. Control desk will be provided by BHEL at free of cost.	NO	1		
10	Erection and Commissioning of HT isolator of size 750 L X 1100 D X 2400 H (Dimensions in mm) [for 3000 KW motor] with required materials etc. approximate weight is 1500 kg. HT isolator will be Supplied by BHEL free of cost.	NO	2		
11	Erection and Commissioning of LT isolator of size 700 L X 600 D X 2200 H (Dimensions in mm) [for 500 KW motor] with necessary materials etc. approximate weight is 1200 kg. LT isolator will be Supplied by BHEL free of cost.	NO	2		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12	Erection, Testing and Commissioning of LT cubical type Main Panel-B consisting of 800A EDO ACB-1 No as incomer , 400A FSU-3 Nos,200A-3Nos,100A-1No,63/32A-4Nos as outgoing, size of 1750 L X 900 D X 2300 H (Dimensions in mm) with necessary fixtures etc. approximate weight is 1500 kg. Main Panel will be Supplied by BHEL free of cost.	NO	1		
13	Erection, Testing and Commissioning of LT cubical type Main Panel-A consisting of 800A EDO ACB-1 No as incomer , 400A SFU-3 Nos,200A SFU-3Nos,100A SFU-4Nos as outgoing, size of 1750 L X 900 D X 2300 H (Dimensions in mm) with necessary fixtures etc. approximate weight is 1500kg. Main Panel will be Supplied by BHEL free of cost.	NO	1		
14	Erection , Testing and Commissioning of junction Box of size 485 L X 200 D X 360 H (Dimensions in mm) With necessary fixtures etc. approximate weight is 60kg. Junction Box will be Supplied by BHEL free of cost..	NO	5		
15	Fixing of push button Box of size 100 L X 50 D X 150 H (Dimensions in mm) with necessary fixtures etc. approximate weight is 12 kg. Push button Box will be Supplied by BHEL free of cost.	NO	4		
16	Fixing of 150/300 mm cable Tray on trench and overhead columns/tress including fabrication and erection of cable Tray supporting structure. The necessary Cable trays, Angles, channels, welding and gas cutting set supplied by BHEL-free of cost. The necessary fasteners, Red oxide and smoke gray paint to be supplied by Contractor. Size of cable tray of 150 W/300 W.	MTR	600		
17	Laying of 11 KV, 3C X 95 sq.mm HT XLPE Copper unarmored cable on cable Trench. Cable will be Supplied by BHEL at Free of cost from stores.	MTR	125		
18	Laying of 3.3 KV, 3C X 300 sq.mm HT XLPE Copper unarmored cable on cable Trench and overhead cable Trays. Cable will be Supplied by BHEL at Free of cost from Stores.	MTR	600		
19	Laying of 1.1 KV,3.5C X 300 sq.mm LT XLPE unarmored Copper cable on Trench and overhead cable Trays. Cable will be Supplied by BHEL at Free of cost from Stores.	MTR	700		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
20	Laying of 1.1 KV, 4C X 2.5 sq.mm LT XLPE unarmored Copper cable on Trench .Cable will be Supplied by BHEL at Free of cost from Stores.	MTR	900		
21	Laying of Special Screened cable and control cable on Trench/Cable Trays. Cable will be Supplied by BHEL at Free of cost from Stores.	MTR	2500		
22	Laying of 25 x 3 mm GI Flat for earthing. (Earth flat will be given by BHEL free of cost from stores.)	MTR	100		
23	Laying of 50 X 6mm GI Flat for earthing. (Earth flat will be given by BHEL free of cost from stores.)	MTR	400		
24	Laying of 3 mm Dia GI wire for C & I items to main earth grid. (3mm Dia GI wire will be given by BHEL free of cost from stores)	MTR	200		
25	Supply & Laying of 14 swg bare copper for earthing.	MTR	100		
26	Supply & Erection of earth Electrode as per drawing no BAP: M&S : EL : PLNG : 001-08 enclosed and also as per IS 3043.	NO	6		
27	Supply & Erection of earth Electrode as per drawing no BAP: M&S : EL : PLNG : 001-08 enclosed and also as per IS 3043.(Note: Copper plate earthing for Electronic device)	NO	4		
28	Supply and making End Termination of 3C X 95 sq.mm 11 KV HT, XLPE Cu cable unarmored. HT Termination Kit, Gland and lug contractor scope.	NO	5		
29	Supply and making End Termination of 3C X 300 sq.mm 3.3 KV HT, XLPE Cu cable unarmored. HT Termination Kit, Gland and lug contractor scope.	NO	18		
30	Supply and making End Termination for 1.1 KV LT , XLPE Cu. Cables unarmored. LT/ HT Termination using double compressor Gland and copper lug (All materials under contractor scope.)				
	a) 3.5C X 300/ 185/95 sq.mm, 1.1 KV LT XLPE Cu. Unarmored Cable .	NO	40		
	b) 3.5C X 50/25 sq.mm, 1.1 KV LT XLPE Cu. Unarmored Cables.	NO	90		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
31	Supply and making End Termination of 4C X 2.5 sq.mm unarmored Cu cable ,Gland and lug (All materials under contractor scope.)	NO	20		
32	Supply and making End Termination of 3.5Cx 25sqmm-- 3.5 C X 95 sq.mm 1.1 kV grade armored aluminum cable for LT panel Gland and lug .(All materials under contractor scope.)	NO	15		
33	Supply and making End Termination of 3.5 C X 185 sq.mm 1.1 kV grade armored aluminum cable for LT panel Gland and lug.(All materials under contractor scope.)	NO	6		
34	Supply & Laying Of 50 mm X 6 mm Copper Flat for Transformer neutral earth .	MTR	25		
35	Preparing necessary Electrical Drawing, submitting the same to central electricity authority obtaining approval from the concerned authorities. All the LT Main Panel boards, HT and LT isolator panels and drive panels, FDB and switches should be properly identified with white paint using the stencil with standard size letters as per the engineer-in-charge instructions. All the electrical installations are to be properly documented (i.e. drawing location arrangement details etc.)	LUMPSUM	1		
36	Supply & Fixing of wall socket with necessary Fixtures etc 15 A & 5 A Multipin Flush type switched socket in suitable M.S box. Make: Anchor.	NO	4		
37	Supply & Fixing of 1200 mm sweep Ceiling fan with regulator and necessary Fixtures etc.Make :khaitan/Crompton greaves/usha.	NO	4		
38	Supply & Fixing of 25 W CFL with necessary Fixtures etc. Philips/ Crompton/Havells.	NO	8		
39	Supply & Fixing of 150 W Metal Halide street Light Fitting with Lamp including Suitable pipe Bracket with necessary Fixtures etc.philips/Crompton greaves/havells.	NO	12		
40	Supply & wiring with 2 Runs of 1.5 sq.mm Stranded Copper Conductor on suitable rigid PVC/Flat capping casing with necessary Fixtures etc. for CFL,Ceiling fan, street light . With 1 Run of 1.5 Sq.mm Copper cable for Earthing .with suitable M.S box with switches.	POINT	20		

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SL NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
41	Supply & wiring with 2 Runs of 2.5 sq.mm Stranded Copper Conductor on suitable rigid PVC/Flat capping casing with necessary Fixtures etc. for street light & Wall socket with 1 Run of 2.5 Sq.mm Copper cable for Earthing with suitable m.s. box with switches.	POINT	12		
42	Supply & Fixing of 20 A metal Clad single phase S&C make socket with 20A SP MCB control on suitable Ms-box with necessary fixtures etc.	NO	2		
43	Supply & Fixing of MCB DB 63A TPN MCB -1No as incomer 32A DP MCB-3 as outgoing with Suitable Ms-box and internal wiring For light/AC Distribution. Make: L&T/SIEMENS/GE	NO	1		
44	Supply & Fixing of MCB DB 32 A DP-1No as incomer 6A SP MCB-10No as outgoing with Suitable Ms-Box and internal wiring for light Distribution. Make :L&T/SIEMENS/GE	NO	2		
45	Dismantling of Existing LT panel including BUSBAR disconnection, cable end termination removing etc.	SET	1		
	TOTAL AMOUNT INCLUDING SERVICE TAX @ _____ %.(Please see point 6 below)				
	(Please indicate service tax percentage)				
Note:					
	1. The dimensions and weight mentioned above are indicative for handling purpose only.				
	2. The laying of cable and earth strips are per meter price only subject to physical laying of the above.				
	3. BHEL will supply water &electricity &crane for the free of cost				
	4. The free issue material is listed in Annexure-I and the total value is Rs 380.79 lakhs. Vendors should take care of the financial implication on account of service tax on free issue material .				
	5. Applicable Service tax is inclusive in the quoted price and proof for payment of service tax shall be enclosed for releasing the payments.				
	6. Quote without applicable service tax % is liable for rejection.				

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