

PEPCO Bangladesh

Section 6. Bill of Quantities

Periodical or Preventive Maintenance-servicing of Danfos and others Brand 90KW VFD at different pump station under MODS Circle-1 area. All works should be done at the presence of the engineer in charge. Necessary safety precautions should be taken for the maximum safety of pump motor and other electro-mechanical apparatus. After servicing works all equipments should be undertaken at running condition. Contractor will be liable for any damage of any part of VFD during the maintenance work. All works should be done by the experienced and skill technician of concern supplier or vendor.

Bill of Quantities

Item no.	Group	Item Code (if any)	Description of Item	Measurement Unit	Quantity	Unit Price (In figures: BDT)	Unit Price (In words: BDT)	Total Price (In figures: BDT)	Total Price (In words: BDT)
1	N/A	N/A	Disconnect the VFD from different sides, then VFD panel will be loaded on Pick up to carry to the workshop for servicing, after complete the servicing, we will install the VFD in the Pump House.(55 Nos x 2)=110 Nos	Nos	110.000	1991.106	One Thousand Nine Hundred and Ninety-One point One Zero Six	219021.660	Two Lakh Nineteen Thousand AND Twenty-One point Six Six
2	N/A	N/A	Dust on an electronic device can cause malfunctions or even failures so outer and inner panel of VFD will be cleaned by a hot air blower. Cleaner Techspray. (55Nos x 1)=55 Nos	Nos	55.000	588.251	Five Hundred and Eighty-Eight point Two Five One	32353.805	Thirty-Two Thousand Three Hundred and Fifty-Three point Eight Zero Five
3	N/A	N/A	Disconnect the VFD input (R, S, T) from the circuit breaker, output (U, V, W) from the connector and remove the Earthing cable from VFD.(55Nos x 1)=55 Nos	Nos	55.000	497.711	Four Hundred and Ninety-Seven point Seven One One	27374.105	Twenty-Seven Thousand Three Hundred and Seventy-Four point One Zero Five
4	N/A	N/A	Open the Drive Cover and separate the Display, Display clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	452.511	Four Hundred and Fifty-Two point Five One One	24888.105	Twenty-Four Thousand Eight Hundred and Eighty-Eight point One Zero Five
5	N/A	N/A	Power card NO will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	588.231	Five Hundred and Eighty-Eight point Two Three One	32352.705	Thirty-Two Thousand Three Hundred and Fifty-Two point Seven Zero Five
6	N/A	N/A	Control card w/o safe stop will be separated from the VFD terminal port in order to test, clean	Nos	55.000	497.711	Four Hundred and Ninety-Seven point	27374.105	Twenty-Seven Thousand Three

			by CRC QD Electronic Cleaner.(55Nos x 1)=55 Nos				Seven One One		Hundred and Seventy-Four point One Zero Five
7	N/A	N/A	Relay card will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	497.711	Four Hundred and Ninety-Seven point Seven One One	27374.105	Twenty-Seven Thousand Three Hundred and Seventy-Four point One Zero Five
8	N/A	N/A	Inrush card will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	506.711	Five Hundred and Six point Seven One One	27869.105	Twenty-Seven Thousand Eight Hundred and Sixty-Nine point One Zero Five
9	N/A	N/A	Current Scaling card will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	543.001	Five Hundred and Forty-Three point Zero Zero One	29865.055	Twenty-Nine Thousand Eight Hundred and Sixty-Five point Zero Five Five
10	N/A	N/A	Gate Drive Card NO will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	54.000	407.341	Four Hundred and Seven point Three Four One	21996.414	Twenty-One Thousand Nine Hundred and Ninety-Six point Four One Four
11	N/A	N/A	BALANCE/HF CARD NO will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	570.141	Five Hundred and Seventy point One Four One	31357.755	Thirty-One Thousand Three Hundred and Fifty-Seven point Seven Five Five
12	N/A	N/A	Current Sensor will be separated from the VFD terminal port in order to test, clean by CRC QD Electronic Cleaner. (54Nos x 1)=54 Nos	Nos	54.000	425.311	Four Hundred and Twenty-Five point Three One One	22966.794	Twenty-Two Thousand Nine Hundred and Sixty-Six point Seven Nine Four
13	N/A	N/A	IGBT Dual Module have to open. It will be checked by multi-meter or lamp test. Further, it will be cleaned through CRC QD Electronic Cleaner. (55Nos x 1)=55 Nos	Nos	55.000	479.611	Four Hundred and Seventy-Nine point Six One One	26378.605	Twenty-Six Thousand Three Hundred and Seventy-Eight point Six Zero Five
14	N/A	N/A	SCR has to open. It will be checked by multi-meter or lamp test. Further, it will be cleaned through CRC QD	Nos	55.000	470.512	Four Hundred and Seventy	25878.160	Twenty-Five Thousand Eight Hundred and Seventy-

			Electronic Cleaner. (55Nos x 1)=55 Nos				point Five One Two		Eight point One Six
15	N/A	N/A	The transformer will be separated from the VFD then checking cleaning by Electrical Cleaner.(55Nos x 1)=55 Nos	Nos	55.000	470.522	Four Hundred and Seventy point Five Two Two	25878.710	Twenty-Five Thousand Eight Hundred and Seventy-Eight point Seven One
16	N/A	N/A	DC Bus CAP Capacitors have to open. It will be checked by the multimeter. Further, it will be cleaned through Electrical Cleaner.(55Nos x 1)=55 Nos	Nos	55.000	487.613	Four Hundred and Eighty-Seven point Six One Three	26818.715	Twenty-Six Thousand Eight Hundred and Eighteen point Seven One Five
17	N/A	N/A	The heat sink will be cleaned in such a way that sufficient air passes through it and IGBT gets cold.(55Nos x 1)=55 Nos	Nos	55.000	470.824	Four Hundred and Seventy point Eight Two Four	25895.320	Twenty-Five Thousand Eight Hundred and Ninety-Five point Three Two
18	N/A	N/A	The fan will be cleaned in such a way that sufficient air passes through VFD and VFD become cold. It will be cleaned through Blower.(55Nos x 1)=55 Nos	Nos	55.000	588.888	Five Hundred and Eighty-Eight point Eight Eight Eight	32388.840	Thirty-Two Thousand Three Hundred and Eighty-Eight point Eight Four
19	N/A	N/A	The VFD drive will be pulling out from the panel for proper Cleaning. (54Nos x 1)=54 Nos	Nos	54.000	470.438	Four Hundred and Seventy point Four Three Eight	25403.652	Twenty-Five Thousand Four Hundred and Three point Six Five Two
20	N/A	N/A	If all the electronics devices parameter/ continuity is found to be accurate, one device after another will be re-installed in VFD Box. (55Nos x 1)=55 Nos	Nos	55.000	543.229	Five Hundred and Forty-Three point Two Two Nine	29877.595	Twenty-Nine Thousand Eight Hundred and Seventy-Seven point Five Nine Five
21	N/A	N/A	All VFD component/spare fitting and fixing in VFD Box.(55Nos x 1)=55 Nos	Job	55.000	1086.318	One Thousand AND Eighty-Six point Three One Eight	59747.490	Fifty-Nine Thousand Seven Hundred and Forty-Seven point Four Nine
							Grand Total:	803060.800	Eight Lakh Three Thousand AND Sixty point Eight

*** Note: All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract shall be included in the unit prices submitted by the Tenderer.**

This Section 6. Bill of Quantities is Electronically Signed by Mr. Md. Islam on behalf of PEPCO Bangladesh