

NOW: ANNUAL MAINTENANCE AND REPAIR ELECTRIC & MECHANICAL IN GDA AREA FOR THE YEAR 2020-21.

BILL OF QUANTITY.

Estimated Cost: Rs.2,000,000/-  
 Earnest Money: Rs.40,000/-  
 Time Limiot: 30.06.2021

| S.NO.  | DESCRIPTION OF ITEMS.  | MRS NO.    | UNIT | RATE          |
|--------|--|------------|------|---------------|
| 1 (a). | Supply & Installation, testing and commissioning of Centrifugal Pump (ISO - 9906 Certified) Coupled with rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) and top set Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe and power cable with appropriate Head and Discharge : 30 HP | 24-50-b-04 | Each | Rs.256,963.50 |
| b.     | Supply & Installation, testing and commissioning of Centrifugal Pump (ISO - 9906 Certified) Coupled with rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) and top set Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe and power cable with appropriate Head and Discharge : 40 HP | 24-50-b-03 | Each | Rs.312,314.41 |
| c.     | Rewinding of turbine electric motor i/c carriage from site of work and back i/c testing installation complete with all respects: From 0.75 to 20 H.P   | 27-16-a    | H.P  | Rs.1,379.82   |
| d.     | Rewinding of Submersible electric motor i/c carriage from site of work and back i/c testing installation complete with all respects: From 0.75 to 20 H.P   | 27-15-a    | H.P  | Rs.1,379.82   |
| 2 (a)  | Furnish & Install of Volt: meter upt to 500 volt.  | 15-210     | No.  | Rs.989.34     |
| b.     | Furnish & Install of AMP meter up to 100 Amps.   | 15-211     | No.  | Rs.989.34     |
| 3      | S/F of pannel light / indicating light i/c bulbs complete.   | N.S.I.     | No.  | Rs.100.00     |

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|----|--|----------|------|--------------|
| 4  | Supply and fixing of C.T Coil for Ampere meter   | 27-17    | Each | Rs.550.97    |
| 5  | With drawl / lowering of pumping mahinery i/c accessorites if required like nuts, bolts, paking sheet, sockets, threading, column pipes etc: complete in all respect |          |      |              |
| a. | Subersible Motor with Pump .   | N.S.I.   | P.HP | Rs.500/-     |
| 6  | S/f of Ball bearing for turbine / centrifutal motor of forllowign B.H.P.   |          |      |              |
| a. | Furnishing and Installation ball bearing for Hollow Shaft Vertical Elec. / Motor Turbine (10-25 H.P)   | 27-14-c  | Each | Rs.7,252/-   |
| b. | Furnishing and Installation thrust bearing for motor (30-50 H.P) (V.H.S.) turbine  | 27-14-b  | Each | Rs.14,296/-  |
| c. | 81 to 125 BHP Motor.   | N.S.I.   | Each | Rs.14,500/-  |
| 7  | S/F of Heavey duty thrust bearing of the following BHP Motor.  |          |      |              |
| a. | Furnishing and Installation thrust bearing for motor (30-50 H.P) (V.H.S.) turbine  | 27-14-b  | Each | Rs.14,295.80 |
| b. | Furnishing and Installation thrust bearing for motor (10-25 H.P) (V.H.S.) turbine  | 27-14-a  | Each | Rs.12,152.05 |
| c. | 81 to 125 BHP Motor.   | N.S.I.   | Each | Rs.16,000/-  |
| 8  | Replacement of pump shaft stainless steel.   | 27-27    | Each | Rs.6,293.60  |
| 9  | Supply and Fixing of Column shaft Sleeve 20 to 30 mm   | 27-29    | Each | Rs.948.65    |
| 10 | Replacing the carbon bushes / steel bushes for submersible motor complete  | 27-37    | Each | Rs.4,944.60  |
| 11 | Supply & erection of Magnetic contactor  | 15-117   | Each | Rs.5,393.99  |
| 12 | Supply & Installation of ASD strater for 21-30 HP  | 15-200-b | Each | Rs.4,928.24  |
| 13 | Supply and Fixing Rubber Bearing for Column shaft 2.5"   | 24-69-a  | Each | 1,356.50     |
| 14 | Supply and Erection circuit breaker (imported) on sahl wood board complete : 20/25/30 Amp.   | 15-26-b  | Each | 684.96       |
| 15 | Supply and Erection transpower auto circuit breaker 3-phase, 400V  | 15-70-c  | Each | 8131.51      |
| 16 | Furnish and installation of pressure gaue , best quality available up to 1000 PSI complete in all respect.   | N.S.I.   | Each | 2000         |
| 17 | furnish and Instal of flexible submerisable cable (copper) with the following sizes.   |          |      |              |
| a. | 3 x 10 mm <sup>2</sup>   | N.S.I.   | P.M  | 400          |
| b. | 3 x 16 mm <sup>2</sup>   | N.S.I.   | P.M  | 600          |

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| c.     | 3 x 20 mm <sup>2</sup>   | N.S.I.  | P.M    | 800       |
| 18     | Furnish and Installaton of C.I /GM foot valve complete in all respet (3" to 6") dia brass.   | N.S.I.  | P.No.  | 2500      |
| 19     | Suppling and Fixing of wearing rings (new requird design / size).  | N.S.I.  | P.No.  | 300       |
| 20     | Supplying and fixing of bronze impleer (new required design and size).   |         |        |           |
| a.     | Submersible Pump.  | N.S.I.  | P.Job. | 2200      |
| b.     | Centrifugal Pump.  | N.S.I.  | P.Job. | 2200      |
| 21     | Cable Jointing & Water Proofing complere.  | NSI     | P.Job. | 500       |
| 22     | Servicing / Greasing of turbine / centrifugal motor for upper & lowering bearings  | NSI     | P.Job. | 500       |
| 23     | Repair/reconditioning of impellars   | 27-35   | P.No.  | 456.93    |
| 24     | Supply and Fixing of New C.I bowls i/c nuts, bolts complete.   | N.S.I.  | P.No.  | 1500      |
| 25 (a) | Supply and Fixing MS Column pipe for Deep well Turbine (DWT) pumps for 6" ( 100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length | 24-55-b | P.M    | 3,987.73  |
| b.     | Supply and Fixing MS Column pipe for Deep well Turbine (DWT) pumps for 3" ( 75 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length  | 24-55-d | P.M    | 2,051.67  |
| c.     | Supply and Fixing MS Column pipe with flanges for sub,erssible pump : 4" ( 100 mm) Nominal Pipe Size (NPS), 3/16" thick, 10' length  | 24-56-a | P.M    | 2,966.32  |
| 26     | S/F of flanged coupling for submercible motor & pump.  | N.S.I.  | P.No.  | 1000      |
| 27     | Supply and Fixing of couping for centrifugal & turbine pump.   | N.S.I.  | Each   | 1000      |
| 28     | Supply and fixing of C.I.I Bowl for centrifugal pump.  | N.S.I.  | Each   | 1000      |
| 29     | Supply and fixing of shaft preprotecting sleve (SS).   | N.S.I.  | Each   | 500       |
| 30     | S/F of lighting Arrester i/c earting etc complete in all respect.  | N.S.I.  | P.Job. | 5000      |
| 31 (a) | Rewinding of H.T Coil 25 KVA   | 27-41-a | P.Job. | 7,999.88  |
| b.     | Rewinding of H.T Coil 50 KVA   | 27-41-b | P.Job. | 9974.83   |
| c.     | Rewinding of H.T Coil 100 KVA  | 27-41-c | P.Job. | 20,023.15 |
| d.     | Rewinding of H.T Coil 200 KVA  | N.S.I.  | P.Job. | 24000     |

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| 32     | Repair of Transformer' LT Coil i/c of carriage from site to workshop & back i/c onstallation and Testing complete. 25-KVA Trasformer  | 15-207-b | P.Job.   | 9,459.50 |
| 33     | Repair of Transformer' HT bush i/c of carriage from site to workshop & back i/c onstallation and Testing complete. 50-KVA Trasformer  | 15-206-c | P.Job.   | 9,092.00 |
| 34     | Repair of Transformer' LT bush i/c of carriage from site to workshop & back i/c onstallation and Testing complete. 100-KVA Trasformer | 15-205-d | P.Job.   | 7,254.50 |
| 35     | Supply and Filling of Transformer Oil.  | 15-216   | P.Litter | 378.07   |
| 36     | Supply and fixing of thimble.   | N.S.I.   | Each     | 300      |
| 37     | Replacement of transfoer link of different KVS  | 27-44-b  | P.No.    | 1,992.60 |
| 38     | Replacement of Transformer L.T bush for 25 to 50 KVA  | 27-44-a  | P.No.    | 2,463.50 |
| 39     | Replacement of insulator (HT) Bush for 25 to 50 KVA   | 27-43    | Each     | 1,951.43 |
| 40 (a) | Replacing of single core cable of the following gauge (Cupper): PVC Cable 7/052   | 27-56-b  | P.M      | 296.85   |
| (b).   | Replacing of single core cable of the following gauge (Cupper): PVC Cable 7/064   | 27-56-a  | P.M      | 341.05   |
| (c).   | Replacing of single core cable of the following gauge (Cupper): PVC Cable 19/052  | 27-56-c  | P.M      | 593.32   |
| (d).   | Replacing of 4 core cable of the following gauge PVC Cable 19/064   | 27-58-b  | P.M      | 970.54   |
| (e).   | Replacing of 4 core cable of the following gauge PVC Cable 19/083   | 27-58-a  | P.M      | 1,171.50 |
| 41 (a) | Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.052"                                | 15-07-b  | P.M      | 658.96   |
| (b).   | Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.064"                                | 15-07-c  | P.M      | 861.07   |
| (c).   | Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 19/0.083"                                | 15-07-d  | P.M      | 1,349.20 |
| (d).   | Supply and Erection single core PVC insulated & sheathed copper conductor, 660/1100V cable : 37/0.083"                                | 15-07-f  | P.M      | 2,423.50 |
| 42     | Replacement of S-Y-II unit for 25 to 100 KVA  | 27-45    | Each     | 1,973.50 |
| 43     | Supply and fixing of Magnatic core for following KVA Transformer.   |          |          |          |
| (a)    | 25 K.V.A.   | N.S.I.   | Each     | 3,000.00 |
| (b).   | 50 K.V.A.   | N.S.I.   | Each     | 4,000.00 |
| (c).   | 100 K.V.A.  | N.S.I.   | Each     | 5,000.00 |

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| (d).   | 200 K.V.A.   | N.S.I.   | Each   | 6,000.00    |
| 44 (a) | Rewinding of Voltage Regulator complete in all respect: 3 coil   | 27-24-a  | Each   | 18,034.50   |
| (b).   | Rewinding of Voltage Regulator coil complete in all respect:   | 27-24-b  | Each   | 6,016.00    |
| (c).   | Repair of Voltage regulator point control machine  | 27-25    | Each   | 4,950.25    |
| (d).   | Repair of Voltage regulator point control machine  | 27-26    | Each   | 4,950.25    |
| 45     | Earthing of Pumping machinery / transformer i/c pit, charcoal, salt, earth plate G.I Wire as specified complete.                     | N.S.I.   | P.Job. | 14,000/-    |
| 46     | Loading unloading of Transformer asper wapda specification & installation with carriage complete for 25 to 100 KVA                   | 27-47    | P.Job. | 6,452.00    |
| 47     | Repair and maintenance of three phase oil cool automatic voltage stablizer (insallation of operating system).                        | N.S.I.   | P.Job. | 15,000/-    |
| 48     | Supply and fixing of Transformer container for different KVA Transformer:  |          |        |             |
| (a)    | Repair of Transformer' LT Coil i/c of carriage from site to workshop & back i/c onstallation and Testing complete. 25-KVA Trasformer | 15-207-b | Each   | Rs.9,459.50 |
| (b).   | Repair of Transformer' LT Coil i/c of carriage from site to workshop & back i/c onstallation and Testing complete. 50-KVA Trasformer | 15-206-b | Each   | Rs.10,317/- |

Deduction of unserviceable / replaced items shall be at \_\_\_\_\_%.

Note: All unforceen items which not includes in this BOQ will be pay to the contractor on his existing quoted premium on MRS-2019.

I offer my Premium \_\_\_\_\_ % Above / Below / At Par on MRS-2019.

I offer my Premium \_\_\_\_\_ % Above / Below / At Par on Non MRS Items.

**CONTRACTOR' S SAMP / SIGNATURE.**



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