

## Annexure-3

| S.No. | System                 | Equipment Name                                | Description of supply / service   | Item Description   | UOM | Quantity |
|-------|------------------------|---|---|--|-----|----------|
| 1     | Lignite feeding system | Gravimetric feeder                            | DT9 controller (spare)  | DT9 CONTROLLER ,PART NO: V000873.B09 UNIT PROGRAMMED - AA32068-1. DT-9, MODEL : VCU 20103,MAKE: SCHENCK PROCESS  | Nos | 1        |
| 2     | Lignite feeding system | Gravimetric feeder                            | DT9 controller HMI (spare)  | HMI,PART NO: V000874.B09 DT-9 UNIT- AA32066-1 MODEL: DT-9,VHM 20100 ,MAKE: SCHENCK PROCESS   | Nos | 1        |
| 3     | Boiler                 | Burner system spare                           | Replacement of ignitor card (spare)   | DURAG MAKE HIGH ENERGY IGNITION DEVICE, MODEL: D-HG 500-50-C-230 WITH 3.0M CABLE ,POWER SUPPLY: 230 VAC  | Nos | 6        |
| 4     | U#1,2& BOP             | Signal Cable                                  | Cable spare   | 16 PAIR X 0.5 SQ.MM, CONTROL CABLE, VOLTAGE GRADE & TYPE : 650/110 V GRDE , MULTICORE OVERALL SHIELDED   | Mtr | 5000     |
| 5     | U#1,2& BOP             | Power cable                                   | Cable spare   | FLEXIBLE TRAILING CABLE,19C X 2.5 SQ.MM & 3 PAIR X 1.5 SQ.MM SCREEN COPPER SCREEN CABLE,1.1 KV GRADE AS PER IS 9968//1988,( 490101A 19X2.5SQ.MM & 3P X 1.5 SQ.MM ( SCREEN) EPR/CSP/CSP | Mtr | 5000     |
| 6     | BOP                    | Internet connection                           | Internet connection (redundant line)  | 100 MBPS redundancy leased line for transferring data to SLDC  | Nos | 1        |
| 7     | Turbine                | Main Turbine                                  | Installation of hardware and software for HP casing expansion from JB to DCS                  |  | Nos | 1        |
| 8     | Turbine                | Main Turbine                                  | Installation of hardware and software for HP differential expansion from JB to DCS            |  | Nos | 2        |
| 9     | Turbine                | Main Turbine                                  | Installation of hardware and software for IP/LP casing expansion from JB to DCS               |  | Nos | 1        |
| 10    | Turbine                | Main Turbine                                  | Installation of hardware and software for IP/LP differential expansion from JB to DCS         |  | Nos | 2        |
| 11    | Lime                   | Bag filter compressor                         | Compressor controller , sensor and internal cable supply, installation and commissioning work | Elektronikon II, SENSOR CABLES ETC.,Make Atlas Copco.  | Set | 2        |
| 12    | Lime                   | Lime weigh feeder-2                           | TUC-6 Controller supply, installation and commissioning work                                  | TUC 6 CONTROLLER FOR WEIGH FEEDER WITH 24VDC POWER PACK 220/24VDC @ 2.2 AMP / SHORT CIRCUIT PROOF SMPS, I/P 230 VAC, O/P 24VDC @ 2.2 AMP AND NECESSARY ACCESSORIES                     | Nos | 1        |
| 13    | Lime                   | Lime Compressor – 1B & 2A Control panel.      | Control panel supply, installation, wiring and commissioning work.                            |  | Nos | 2        |
| 14    | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2) | Replacement of junction box   | JB dimensions - 55 CM X 81 CM X 30 CM (L X H X W)  | Nos | 2        |
| 15    | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2) | Selector switch(1440129)  | KAYCEE MAKE SELECTOR SWITCH CONTACT RATING:10A/440 VAC/50HZ,2 POLE 2 WAY WITHOUT OFF,TYPE:2526B  | Nos | 10       |
| 16    | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2) | Push button(1441113)  | LUMINOUS PUSH BUTTON, SUPPLY 230 VAC. DIA : 22.5 MM, LED COLOR : GREEN   | Nos | 40       |

|    |                        |  |                             |   |      |     |
|----|------------------------|--|-----------------------------|---|------|-----|
| 17 | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2)                        | MCB                         | 1 POLE 2 AMP,240V AC,DIN RAIL MOUNTING  | Nos  | 40  |
| 18 | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2)                        | Din rail                    | Din rail 50 mtr   | Mtr. | 50  |
| 19 | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2)                        | Terminal block              | TERMINAL BLOCK, TYPE KUT 2.5 2005 20-12AWG,1.5SQMM, MAKE - ELMEX                                    | Nos  | 600 |
| 20 | AHP                    | Buffer Hopper ( 1 BATR -1,2 and 2 BATR - 1,2)                        | Relay / Contactor(1440867)  | RELAY / CONTACTOR 3 NO + 1 NC CONTACT RATING 240 VAC, COIL SUPPLY : 24 VDC, CURRENT RATING : 10 AMP | Nos  | 40  |
| 21 | AHP                    | Control Junction Box   | Replacement of junction box | JB dimensions - 48 CM X 76 CM X 20 CM (L X H X W)   | Nos  | 7   |
| 22 | AHP                    | 1TR01, 2TR01, LC Box   | Replacement of junction box | JB dimensions - 55 CM X 81 CM X 30 CM (L X H X W)   | Nos  | 3   |
| 23 | AHP                    | Fuse distribution box  | Replacement of junction box | JB dimensions - 40 CM X 50 CM X 30 CM (L X H X W)   | Nos  | 4   |
| 24 | AHP                    | 1TR11,12,13,14<br>2TR11,12,13,15<br>1TR31,32,33,34<br>1TR31,32,33,35 | Replacement of junction box | JB dimensions - 46 CM X 82 CM X 30 CM (L X H X W)   | Nos  | 8   |
| 25 | AHP                    | 1TR41,42,43,44<br>2TR41,42,43,44<br>1TR51,52,53,54<br>TR51,52,53,35  | Replacement of junction box | JB dimensions - 30 CM X 50 CM X 30 CM (L X H X W)   | Nos  | 2   |
| 26 | AHP                    | Silo Fluidizing Panel  | Replacement of junction box | JB dimensions - 60 CM X 82 CM X 28 CM (L X H X W)   | Nos  | 2   |
| 27 | MHP                    | Lignite dump hopper TP-1, TP-2, PCH, Bunker, SCH,SH                  | Replacement of junction box | JB dimensions - 40 CM X 48 CM X 12 CM (L X H X W)   | Nos  | 14  |
| 28 | MHP                    | TP-1, TP-3, PCH, SCH, SH, Bunker                                     | Replacement of junction box | JB dimensions - 40 CM X 50 CM X 28 CM (L X H X W)   | Nos  | 6   |
| 29 | MHP                    | TP-4, LCH, Lime Bunker House   | Replacement of junction box | JB dimensions - 40 CM X 40 CM X 24 CM (L X H X W)   | Nos  | 5   |
| 30 | MHP                    | Stacker CJB  | Replacement of junction box | JB dimensions - 30 CM X 34 CM X 8 CM (L X H X W)  | Nos  | 5   |
| 31 | SWTP and CW Pump House | MED 1&2  | Replacement of junction box | JB dimensions - 25 CM X 40 CM X 12 CM (L X H X W)   | Nos  | 12  |
| 32 | SWTP and CW Pump House | MED SOV JB   | Replacement of junction box | JB dimensions - 50 CM X 50 CM X 50 CM (L X H X W)   | Nos  | 2   |
| 33 | SWTP and CW Pump House | MBE  | Replacement of junction box | JB dimensions - 25 CM X 40 CM X 12 CM (L X H X W)   | Nos  | 5   |
| 34 | SWTP and CW Pump House | MBE  | Replacement of junction box | JB dimensions - 50 CM X 120 CM X 30 CM (L X H X W)  | Nos  | 1   |
| 35 | SWTP and CW Pump House | DM Tank  | Replacement of junction box | JB dimensions - 25 CM X 40 CM X 12 CM (L X H X W)   | Nos  | 3   |
| 36 | SWTP and CW Pump House | ECR  | Replacement of junction box | JB dimensions - 25 CM X 40 CM X 12 CM (L X H X W)   | Nos  | 2   |
| 37 | SWTP and CW Pump House | CW Pump Transmitter  | Replacement of junction box | JB dimensions - 25 CM X 40 CM X 25 CM (L X H X W)   | Nos  | 2   |
| 38 | SWTP and CW Pump House | CW Pump JB   | Replacement of junction box | JB dimensions - 24 CM X 26 CM X 24 CM (L X H X W)   | Nos  | 5   |

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| 39 | Unit 1 JBs | ABB JBs     | Replacement of junction box | JB dimensions - 60 CM X 40 CM X 23 CM (L X H X W)  | Nos | 24 |
| 40 | Unit 1 JBs | Alstom JBs  | Replacement of junction box | JB dimensions - 37 CM X 38 CM X 14 CM (L X H X W)  | Nos | 79 |
| 41 | Unit 1 JBs | LI Panels   | Replacement of junction box | JB dimensions - 35 CM X 23 CM X 15 CM (L X H X W)  | Nos | 32 |
| 42 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 26 CM X 21 CM X 11 CM (L X H X W)  | Nos | 3  |
| 43 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 28 CM X 23 CM X 9 CM (L X H X W)   | Nos | 7  |
| 44 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 21 CM X 15 CM X 10 CM (L X H X W)  | Nos | 2  |
| 45 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 33 CM X 23 CM X 16 CM (L X H X W)  | Nos | 2  |
| 46 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 20 CM X 28 CM X 14 CM (L X H X W)  | Nos | 20 |
| 47 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 36 CM X 45 CM X 15 CM (L X H X W)  | Nos | 2  |
| 48 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 40 CM X 60 CM X 16 CM (L X H X W)  | Nos | 16 |
| 49 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 40 CM X 60 CM X 18 CM (L X H X W)  | Nos | 14 |
| 50 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 60 CM X 80 CM X 23 CM (L X H X W)  | Nos | 2  |
| 51 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 60 CM X 120 CM X 28 CM (L X H X W) | Nos | 1  |
| 52 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 20 CM X 20 CM X 10 CM (L X H X W)  | Nos | 4  |
| 53 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 60 CM X 60 CM X 23 CM (L X H X W)  | Nos | 1  |
| 54 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 36 CM X 30 CM X 10 CM (L X H X W)  | Nos | 6  |
| 55 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 20 CM X 30 CM X 10 CM (L X H X W)  | Nos | 2  |
| 56 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 30 CM X 23 CM X 10 CM (L X H X W)  | Nos | 3  |
| 57 | Unit 1 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 20 CM X 32 CM X 10 CM (L X H X W)  | Nos | 3  |
| 58 | Unit 2 JBs | ABB JBs     | Replacement of junction box | JB dimensions - 60 CM X 40 CM X 23 CM (L X H X W)  | Nos | 29 |
| 59 | Unit 2 JBs | Alstom JBs  | Replacement of junction box | JB dimensions - 37 CM X 38 CM X 14 CM (L X H X W)  | Nos | 79 |
| 60 | Unit 2 JBs | LI Panels   | Replacement of junction box | JB dimensions - 35 CM X 23 CM X 15 CM (L X H X W)  | Nos | 40 |
| 61 | Unit 2 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 26 CM X 21 CM X 11 CM (L X H X W)  | Nos | 3  |
| 62 | Unit 2 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 28 CM X 23 CM X 9 CM (L X H X W)   | Nos | 7  |
| 63 | Unit 2 JBs | Turbine JBs | Replacement of junction box | JB dimensions - 21 CM X 15 CM X 10 CM (L X H X W)  | Nos | 2  |

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|----|------------|-------------------------------------|--|--|------|------------------|
| 64 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 33 CM X 23 CM X 16 CM (L X H X W)  | Nos  | 2                |
| 65 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 20 CM X 28 CM X 14 CM (L X H X W)  | Nos  | 20               |
| 66 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 36 CM X 45 CM X 15 CM (L X H X W)  | Nos  | 2                |
| 67 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 40 CM X 60 CM X 16 CM (L X H X W)  | Nos  | 16               |
| 68 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 40 CM X 60 CM X 18 CM (L X H X W)  | Nos  | 14               |
| 69 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 60 CM X 80 CM X 23 CM (L X H X W)  | Nos  | 2                |
| 70 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 60 CM X 120 CM X 28 CM (L X H X W) | Nos  | 1                |
| 71 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 20 CM X 20 CM X 10 CM (L X H X W)  | Nos  | 4                |
| 72 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 60 CM X 60 CM X 23 CM (L X H X W)  | Nos  | 1                |
| 73 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 36 CM X 30 CM X 10 CM (L X H X W)  | Nos  | 6                |
| 74 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 20 CM X 30 CM X 10 CM (L X H X W)  | Nos  | 2                |
| 75 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 30 CM X 23 CM X 10 CM (L X H X W)  | Nos  | 3                |
| 76 | Unit 2 JBs | Turbine JBs                         | Replacement of junction box  | JB dimensions - 20 CM X 32 CM X 10 CM (L X H X W)  | Nos  | 3                |
| 77 | BOP        | Cable trays                         | Installation of cable trays  | Cable tray size 600 mm                             | Mtr  | 800              |
| 78 | BOP        | Cable trays                         | Installation of cable trays  | Cable tray size 300 mm                             | Mtr  | 915              |
| 79 | BOP        | Cable trays                         | Installation of cable trays  | Cable tray size 200 mm                             | Mtr  | 820              |
| 80 | BOP        | Cable trays                         | Installation of cable trays  | Cable tray size 150 mm                             | Mtr  | 830              |
| 81 | BOP        | Cable trays                         | Installation of cable trays  | Cable tray size 100 mm                             | Mtr  | 865              |
| 82 | BOP        | Cable trays                         | Installation of cable trays  | Cable ray size 50 mm                               | Mtr  | 820              |
| 83 | ACW/CCW    | ACW pump discharge pressure         | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. of pumps |
| 84 | ACW/CCW    | ACW pump vibration                  | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 85 | ACW/CCW    | ACW pump DE/NDE bearing temperature | Installation of hardware and software from JB to respective DCS / PLC for the new RTD                  |  | Nos. | 03 Nos. of pumps |
| 86 | ACW/CCW    | ACW motor vibration                 | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 87 | ACW/CCW    | CCW pump discharge pressure         | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. of pumps |

|     |         |  |  |  |      |                  |
|-----|---------|--|--|--|------|------------------|
| 88  | ACW/CCW | CCW pump vibration                         | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 89  | ACW/CCW | CCW pump DE/NDE bearing temperature        | Installation of hardware and software from JB to respective DCS / PLC for the new RTD                  |  | Nos. | 03 Nos. of pumps |
| 90  | ACW/CCW | CCW motor vibration                        | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 91  | Boiler  | Ash Cooler Pump discharge pressure         | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. of pumps |
| 92  | Boiler  | Ash Cooler Pump vibration                  | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 93  | Boiler  | Ash Cooler Pump DE/NDE bearing temperature | Installation of hardware and software from JB to respective DCS / PLC for the new RTD                  |  | Nos. | 03 Nos. of pumps |
| 94  | Boiler  | Ash Cooler motor vibration                 | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 03 Nos. of pumps |
| 95  | ACW/CCW | PHE CCW inlet pressure                     | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. PHE      |
| 96  | ACW/CCW | PHE CCW outlet pressure                    | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. PHE      |
| 97  | ACW/CCW | PHE sea water inlet pressure               | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. PHE      |
| 98  | ACW/CCW | PHE sea water outlet pressure              | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 03 Nos. PHE      |
| 99  | ACW/CCW | PHE CCW water I/L and O/L conductivity     | Installation of hardware and software from JB to respective DCS / PLC for the new conductivity meter   |  | Nos. | 03 Nos. PHE      |
| 100 | SWTP    | Intake pump and motor vibration            | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe      |  | Nos. | 12 Nos.          |
| 101 | SWTP    | MED HP steam flow TPH                      | Installation of hardware and software from JB to respective DCS / PLC for the new flow transmitter     |  | Nos. | 3 Nos.           |
| 102 | SWTP    | MED condensate conductivity                | Installation of hardware and software from JB to respective DCS / PLC for the new conductivity meter   |  | Nos. | 2 Nos.           |
| 103 | ACW/CCW | CCW suction line pressure                  | Installation of hardware and software from JB to respective DCS / PLC for the new pressure transmitter |  | Nos. | 1 No.            |

|     |            |                                    |  |  |      |         |
|-----|------------|------------------------------------|--|--|------|---------|
| 104 | Boiler     | All fans vibration reading to be r | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 22 Nos. |
| 105 | Boiler     | All BFP pumps vibration reading    | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 12 Nos. |
| 106 | Boiler     | All CEP pumps vibration reading    | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 12 Nos. |
| 107 | Boiler     | All Hot water pumps vibration re   | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 12 Nos. |
| 108 | Turbine    | De aerator dissolved oxygen mes    | Installation of hardware and software from JB to respective DCS / PLC for the new analyzer         |  | Nos. | 2 Nos.  |
| 109 | Turbine    | All turbines extraction flow trans | Installation of hardware and software from JB to respective DCS / PLC for the new flow transmitter |  | Nos. | 12 Nos. |
| 110 | Turbine    | CRH steam flow transmitters        | Installation of hardware and software from JB to respective DCS / PLC for the new flow transmitter |  | Nos. | 12 Nos. |
| 111 | Turbine    | HRH steam flow transmitters        | Installation of hardware and software from JB to respective DCS / PLC for the new flow transmitter |  | Nos. | 12 Nos. |
| 112 | SWTP       | Reject pump                        | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 3 Nos.  |
| 113 | MHP        | Lignite impactor                   | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 2 Nos.  |
| 114 | MHP        | Lime impactor                      | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 2 Nos.  |
| 115 | Compressor | Compressor                         | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 9 Nos.  |
| 116 | MHP        | Lignite sizer                      | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 2 Nos.  |
| 117 | MHP        | Lime sizer                         | Installation of hardware and software from JB to respective DCS / PLC for the new vibration probe  |  | Nos. | 1 No.   |