

**2X800 MW NTPC SINGRAULI STPP STAGE – III**  
**BOQ-CUM-PRICE SCHEDULE FOR LT SWITCHGEAR**  
**NIT No. 77/25/6027/SHA, Dt:- 02.05.2026**

Bidder Name:-																
S.No.	ITEM NO.	ITEM NAME	UOM	TOTAL QTY.	RATING (A)	BOARD NO.	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX-WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	NO. OF PCC / ACB PANEL	NO. OF MCC / ACDB / DCDB PANEL	BOARD NAME PLATE, DESCRIPTION & RATING
1	506-0110316-00-A	UNIT EMERGENCY SWBD-1	NOS.	1	3000	8DG										U#8 EMERGENCY MCC 8DG, 3000A
2	506-0110040-00-A	220V MAIN DCDB-1	NOS.	1	1600	8FA										U#8 220V MAIN DCDB 8FA, 1600A
3	506-0110382-00-A	Unit Boiler PMCC-1	NOS.	1	4000	8DA										U#8 BOILER SERVICE PMCC 8DA, 4000A
4	506-0110107-00-A	BOILER V&D ACDB-1	NOS.	1	250	8HA										U#8 BOILER VALVE & DAMPER ACDB 8HA, 250A
5	506-0110092-00-A	BOILER ACDB-1	NOS.	1	630	8HB										U#8 BOILER ACDB 8HB, 630A
6	506-0110419-00-A	SOOT BLOWER MCC-1	NOS.	1	63											U#8 SOOT BLOWER MCC, 63A
7	506-0110387-00-A	Unit Turbine PMCC	NOS.	1	4000	8DB										U#8 TURBINE SERVICE PMCC 8DB, 4000A
8	506-0110321-00-A	UNIT SERVICE ACDB-1	NOS.	1	630	8QA										U#8 UNIT SERVICE ACDB 8QA, 630A
9	506-0110300-00-A	TURBINE VALVE ACDB-1	NOS.	1	250	8KA										U#8 TURBINE VALVE DB 8KA, 250A
10	506-0110317-00-A	UNIT EMERGENCY SWBD-2	NOS.	1	3000	9DG										U#9 EMERGENCY MCC 9DG, 3000A
11	506-0110041-00-A	220V MAIN DCDB-2	NOS.	1	1600	9FA										U#9 220V MAIN DCDB 9FA, 1600A
12	506-0110383-00-A	Unit Boiler PMCC-2	NOS.	1	4000	9DA										U#9 BOILER SERVICE PMCC 9DA, 4000A
13	506-0110108-00-A	BOILER V&D ACDB-2	NOS.	1	250	9HA										U#9 BOILER VALVE & DAMPER ACDB 9HA, 250A
14	506-0110093-00-A	BOILER ACDB-2	NOS.	1	630	9HB										U#9 BOILER ACDB 9HB, 630A
15	506-0110420-00-A	SOOT BLOWER MCC-2	NOS.	1	63											U#9 SOOT BLOWER MCC, 63A
16	506-0110388-00-A	Unit Turbine PMCC-2	NOS.	1	4000	9DB										U#9 TURBINE SERVICE PMCC 9DB, 4000A
17	506-0110322-00-A	UNIT SERVICE ACDB-2	NOS.	1	630	9QA										U#9 UNIT SERVICE ACDB 9QA, 630A
18	506-0110301-00-A	TURBINE VALVE ACDB-2	NOS.	1	250	9KA										U#9 TURBINE VALVE DB 9KA, 250A
19	506-0110179-00-A	ESP SWBD	NOS.	12	3000	8DD, 8DE, 8DF, 8DC, 8DH, 8DJ, 8DD, 8DE, 8DF, 8DC, 8DH, 8DJ										U#8 & U#9 ESP PMCC's, 3000A
20	506-0110180-00-A	ESP SWBD-1	NOS.	1	4000	8DL										U#8 ESP STANDBY PMCC 8DL, 4000A
21	506-0110181-00-A	ESP SWBD-2	NOS.	1	4000	8DM										U#8 ESP STANDBY PMCC 8DM, 4000A
22	506-0110182-00-A	ESP SWBD-3	NOS.	1	4000	9DL										U#9 ESP STANDBY PMCC 9DL, 4000A
23	506-0110183-00-A	ESP SWBD-4	NOS.	1	4000	9DM										U#9 ESP STANDBY PMCC 9DM, 4000A
24	506-0110170-00-A	ESP A/C & VENT MCC-1	NOS.	1	630	8TB										U#8 ESP HVAC MCC 8TB, 630A
25	506-0110165-00-A	ESP & ID FAN AREA MCC-1	NOS.	1	400	8HD										U#8 ESP & ID FAN AREA MCC 8HD, 400A
26	506-0110171-00-A	ESP A/C & VENT MCC-2	NOS.	1	400	9TB										U#9 ESP HVAC MCC 9TB, 400A
27	506-0110166-00-A	ESP & ID FAN AREA MCC-2	NOS.	1	400	9HD										U#9 ESP & ID FAN AREA MCC 9HD, 400A
28	506-0110264-00-A	STATION SERVICE SWBD.-1	NOS.	1	4000	0DA										U#8 STATION SERVICE PMCC 0DA, 4000A
29	506-0110077-00-A	AIR CONDITIONING MCC	NOS.	1	1250	0TA										U#8 & 9 AIR CONDITIONING MCC 0TA, 1250A
30	506-0110331-00-A	VENTILATION MCC-1	NOS.	1	1000	8TA										U#8 VENTILATION MCC 8TA, 1000A
31	506-0110241-00-A	MISC. SERVICE MCC-1	NOS.	1	630	0QA										U#8 MISC. SERVICES MCC 0QA, 630A
32	506-0110079-00-A	AIR WASHER MCC-1	NOS.	1	800	0SA										U#8 AIR WASHER MCC 0SA, 800A
33	506-0110983-00-A	OUTDOOR SWGR # 1	NOS.	1	400											U#8 TRF AREA OUTDOOR SWGR, 400A
34	506-0110285-00-A	STATION SERVICE SWBD.-2	NOS.	1	4000	0DB										U#9 STATION SERVICE PMCC 0DB, 4000A
35	506-0110332-00-A	VENTILATION MCC-2	NOS.	1	1000	9TA										U#9 VENTILATION MCC 9TA, 1000A
36	506-0110242-00-A	MISC. SERVICE MCC-2	NOS.	1	630	0QB										U#9 MISC. SERVICES MCC 0QB, 630A
37	506-0110080-00-A	AIR WASHER MCC-2	NOS.	1	800	0SB										U#9 AIR WASHER MCC 0SB, 800A
38	506-0110984-00-A	OUTDOOR SWGR # 2	NOS.	1	400											U#9 TRF AREA OUTDOOR SWGR, 400A
39	506-0110162-00-A	DM PLANT SWBD.	NOS.	1	4000	0DE										DM/ CPU/ SERVICE PMCC 0DE, 4000A
40	506-0110142-00-A	CPU MCC	NOS.	1	630	0WA										CPU MCC 0WA, 630A
41	506-0110259-00-A	SERVICE BLDG. MCC	NOS.	1	1000	0WB										SERVICE BUILDING MCC 0WB, 1000A
42	506-0110339-00-A	WORKSHOP SWBD	NOS.	1	2500	0DF										WORKSHOP/ ETP ACDB 0DF, 2500A
43	506-0110184-00-A	ETP MCC	NOS.	1	400	0DI										ETP MCC 0DI, 400A
44	506-0110254-00-A	RAW WATER SWBD.	NOS.	1	3000	0DM										RWPH/ AUX CT/ O&M STORE PMCC 0DM, 3000A
45	506-0111020-00-A	AUX CT SWBD	NOS.	1	400	0DK										AUX CT MCC 0DK, 400A
46	506-0111019-00-A	O&M STORE SWBD	NOS.	1	400	0WE										O&M STORE ACDB 0WE, 400A
47	506-0111032-00-A	CLARIFIER WATER PH SWBD	NOS.	1	2500	0DD										SW/ CLW/ PTP PMCC 0DD, 2500A
48	506-0110251-00-A	PRE-TREATMENT PLANT MCC	NOS.	1	1000	0WC										PTP MCC 0WC, 1000A
49	506-0110044-00-A	220V OFFSITE DCDB	NOS.	1	125	0FA										220V AUX CT & RW PH DCDB 0FA, 125A
50	506-0111033-00-A	CHLORINATION PLANT SWBD	NOS.	1	1000	0DC										FIRE WATER/CW/CLO2/CWTP PMCC 0DC, 1000A
51	506-0111035-00-A	CSSP SWBD	NOS.	1	2500	0DH										CSSP PMCC 0DH, 2500A
52	506-0110190-00-A	FUEL OIL P/H SWBD.	NOS.	1	2500	0DN										FOPH PMCC 0DN, 2500A
53	506-0111024-00-A	CHP SWBD-1	NOS.	1	4000	0DR										CHP PMCC-01 0DR, 4000A
54	506-0111025-00-A	CHP SWBD-2	NOS.	1	4000	0DS										CHP PMCC-02 0DS, 4000A
55	506-0111026-00-A	CHP SWBD-3	NOS.	1	4000	0DU										CHP PMCC-03 0DU, 4000A
56	506-0111021-00-A	220V CHP DCDB-1	NOS.	1	150	0FC										220V CHP MCC-2 DCDB 0FC, 150A
57	506-0111022-00-A	220V CHP DCDB-2	NOS.	1	125	0FC1										220V CHP MCC-3 DCDB 0FC1, 125A
58	506-0111034-00-A	SWITCHYARD SERVICE SWBD	NOS.	1	1000	0DJ										SWYD ACDB 0DJ, 1000A
59	506-0110977-00-A	220V SWITCHYARD DCDB 1	NOS.	1	125	0FD										220V SWYD DCDB 0FD, 125A
60	506-0110404-00-A	48V SWITCHYARD DCDB	NOS.	1	125											48V SWYD DCDB, 125A
61	506-0110411-00-A	SWITCHYARD EMERGENCY DB	NOS.	1	250	0DT										SWITCHYARD EMERGENCY POWER DB, 250A
62	506-0111030-00-A	SWITCHYARD AC SWBD	NOS.	1	250											SWITCHYARD AC MCC, 250A
63	506-0111031-00-A	SWITCHYARD VENTILATION SWBD	NOS.	1	250											SWITCHYARD VENTILATION MCC, 250A
64	506-0110412-00-A	SWITCHYARD OIL FILTRATION SWBD	NOS.	1	400											SWITCHYARD OIL FILTRATION BOARD, 400A

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S.No.	ITEM NO.	ITEM NAME	UOM	TOTAL QTY.	RATING (A)	BOARD NO.	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX-WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	NO. OF PCC / ACB PANEL	NO. OF MCC / ACDB / DCDB PANEL	BOARD NAME PLATE, DESCRIPTION & RATING
65	506-0110985-00-A	AC MCCB BOX	NOS.	125	63											
66	506-0110986-00-A	DC MCCB BOX	NOS.	25	63											
67	506-0110417-00-A	HMI SYSTEM	NOS.	1												AS PER ANNEXURE-A
68	506-0111006-00-A	NUMERICAL RELAY, IMCC AND WIRELESS TEMP MONITORING SYSTEM- NETWORKING HARDWARE	LOTS	1												AS PER ANNEXURE-B1 & B3
69	506-0110991-00-A	AMC FOR NUMERICAL RELAY	LOTS	1				NA								AS PER ANNEXURE-B2
70	506-0111007-00-C	NUMERICAL RELAY, IMCC AND WIRELESS TEMP MONITORING SYSTEM & HMI SYSTEM- COMMISSIONING	SET	1				NA								AS PER ANNEXURE-C, NUMERICAL RELAY, IMCC, WIRELESS TEMP MONITORING & HMI SYSTEM- COMMISSIONING
71	506-0110282-00-A	TOOLS & TACKLE	SET	1												AS PER ANNEXURE-D
72	506-0110991-00-A	SITE MODIFICATION	LOTS	1				NA								AS PER ANNEXURE-E
73	506-0110989-00-A	E & C SPARES	LOTS	1												AS PER ANNEXURE-F
74	506-0110000-00-B	MANDATORY SPARES	SET	1												AS PER ANNEXURE-G
75	<b>GRAND TOTAL (Evaluation Price shall be Exworks + Freight)</b>															

- NOTES:**
- TO CALCULATE THE SWITCHBOARD PRICES, REFER DETAILED BOARD WISE BOM AND MODULE WISE BOM, ANNEXURE-A.1 AND ANNEXURE-A.2 OF TECHNICAL DATA PART-A OF TECHNICAL SPECIFICATION (PE-TS-512-506-E002) RESPECTIVELY.
  - BIDDER HAS TO QUOTE FOR THE FOLLOWING ALONG WITH THE BID:
    - HMI SYSTEM: AS PER LIST IN ANNEXURE-A
    - NETWORKING HARDWARE FOR NUMERICAL RELAYS, IMC AS PER LIST IN ANNEXURE-B1 & FOR WIRELESS TEMPERATURE MONITORING SYSTEM AS PER LIST IN ANNEXURE-B3
    - AMC FOR NUMERICAL RELAYS AS PER ANNEXURE-B2
    - NUMERICAL RELAY, IMCC, WIRELESS TEMPERATURE MONITORING & HMI SYSTEM COMMISSIONING: AS PER ANNEXURE-C
    - TOOLS & TACKLES: AS PER ANNEXURE-D
    - SITE MODIFICATION CHARGES: AS PER ANNEXURE-E
    - E & C SPARES: AS PER ANNEXURE-F
    - MANDATORY SPARE: AS PER LIST IN ANNEXURE-G
    - BIDDER TO PROVIDE A SCHEDULE OF UNIT PRICES IN ACCORDANCE WITH THE LIST PROVIDED IN ANNEXURE-H
  - BIDDER TO ENSURE THAT SUMMATION OF PRICES (AS PER ANNEXURE-H) OF APPLICABLE MODULES (AS PER ANNEXURE A.1-BOARDWISE BOM) AND APPLICABLE PANELS (MENTIONED ABOVE BY THE BIDDER) OF A BOARD SHALL BE EQUIVALENT TO BOARD PRICE QUOTED ABOVE FOR THAT BOARD. VARIATION OF +/- 5% IS ACCEPTABLE IN THE DERIVED PRICE FROM THE BOARD PRICE QUOTED ABOVE.
  - ADDITION/ DELETION OF QUANTITIES SHALL BE APPLICABLE AT THE QUOTED PRICES. ALLOWABLE VARIATION IN QUANTITY AND PRICE SHALL BE AS PER NIT.
  - ALL LT PCC/ PMCC/MCC/ DBs SHALL BE SUPPLIED ALONGWITH THE INTEGRAL BASE FRAMES, FOUNDATION BOLTS, CABLE GLANDS & LUGS. PRICES FOR THE SAME SHALL BE BUILT IN THE SWITCHBOARD PRICE.
  - BIDDER IS REQUIRED TO PROVIDE THE QUANTITY OF PANELS CORRESPONDING TO EACH BOARD IN THE TABLE ABOVE WHEN SUBMITTING THEIR TECHNO-COMMERCIAL PROPOSAL.
  - IN CASE MODULE DOORS ARE PART OF MODULES, 2 NOS OF DUMMY MODULES OF EACH SIZE TO FILL IN MODULE BEING TAKEN OUT FOR MAINTENANCE PURPOSE SHALL BE PROVIDED IN EACH SWITCHGEAR ROOM (REFER ANNEXURE-3, TENTATIVE SWITCHGEAR LOCATION OF TECHNICAL SPECIFICATION PE-TS-512-506-E002). THESE DUMMY MODULES SHALL BE FITTED IN SWITCHBOARD AS VACANT MODULES HAVING NO CUT OUT ON BACK SIDE AND CABLE ALLEY SIDE. IN CASE DOOR IS HINGED TO THE PANEL, 2 NOS OF BLANKING PLATES OF EACH SIZE NEED TO BE PROVIDED. PRICES FOR THE SAME SHALL BE BUILT IN THE SWITCHBOARD
  - NO ADDITIONAL PRICES SHALL BE PAID FOR PROTOTYPE PANELS. PRICES QUOTED ABOVE INCLUDES COST OF PROTOTYPE PANELS ALSO.
  - PVC SHALL BE APPLICABLE FOR THIS ENQUIRY FOR PMCC / PCC / MCC / ACBD / DCDB ONLY) AS PER IEEMA CIRCULAR (<https://ieema.org/wp-content/uploads/2020/07/lvswgr-jan-2019.pdf>). PRICE VARIATION IS NOT APPLICABLE FOR AC MCCB BOX; DC MCCB BOX; HMI SYSTEM; NUMERICAL RELAY, IMCC AND WIRELESS TEMP MONITORING SYSTEM- NETWORKING HARDWARE; AMC FOR NUMERICAL RELAY; NUMERICAL RELAY, IMCC, WIRELESS TEMP MONITORING AND HMI SYSTEM- COMMISSIONING; TOOLS & TACKLE; SITE MODIFICATION; E & C SPARES & MANDATORY SPARES.
  - IN UNIT ADDITION-DELETION PRICES (ANNEXURE-H), PRICES QUOTED FOR COMPONENTS SHALL BE REASONABLE AND AS PER LIST PRICE OF CONCERNED MANUFACTURERS.

**ANNEXURE-A**

**HMI SYSTEM**

S. No.	Item Description	QTY.	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX- WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
	<b>COMPLETE DESIGN, ENGINEERING &amp; SUPPLY OF THE FOLLOWING ITEMS :</b>										
1	HMI (EWS)	4	NOS.								
2	CONSOLE FOR HMI	4	NOS.								REFER NOTE- 2 & 3
3	LASER PRINTER (A4 SIZE)	4	NOS.								
4	TABLE FOR PRINTER	4	NOS.								REFER NOTE- 3
5	<b>TOTAL OF ANNEXURE A</b>										

**NOTE:**

1	REFER ANNEXURE-1 TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE.
2	INDUSTRIAL MODULAR DESIGN CONSOLE (FURNITURE I.E. TABLE WITH DRAWER & SWIVEL COMPUTER CHAIR) SHALL BE PROVIDED. EACH CONSOLE SHALL HAVE SPACE FOR KEEPING AN ADDITIONAL PC.
3	MAKE AND COLOR SHADE OF FURNITURE SHALL BE DECIDED DURING DETAIL ENGINEERING. FURNITURE COLOR SHADE SHOULD MATCH WITH CONTROL ROOM FURNITURE.
4	BHEL WILL PROVIDE UPS REDUNDANT FEEDER AT ONE LOCATION NEAR TO EWS LOCATION. FURTHER DISTRIBUTION OF UPS SUPPLY (FOR HMI, NETWORK SWITCH ETC.) ALONG WITH UPS DB SHALL BE IN THE SCOPE OF BIDDER.
5	FOR TESTING AND ERECTION & COMMISSIONING CHARGES FOR HMI- ITEMS, KINDLY REFER S.No.4 OF ANNEXURE-C.

**ANNEXURE-B1  
NETWORKING HARDWARE FOR NUMERICAL RELAY & IMCC**

S. No.	Item Description	QTY.	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX- WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX- WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
1	ETHERNET SWITCH WITH IEC-61850 PROTOCOL										IT SHALL BE PART OF SWITCHBOARD
2	NETWORK LEVEL ETHERNET SWITCH (OF ADEQUATE PORTS)	2	SET								NEAR DDCMIS END, INCLUDING COMPLETE DESIGN, ENGINEERING, SUPPLY, TESTING AND ERECTION & COMMISSIONING. EACH SET SHALL BE SUITABLE FOR RECEIVING SIGNALS FROM EACH SWITCHGEAR LEVEL NETWORK/RING OF ETHERNET SWITCH's. BOTH SET OF NETWORK LEVEL ETHERNET SWITCH SHALL BE MOUNTED IN ETHERNET SWITCH BOX.
3	CAT5e/CAT6 or Better Ethernet CABLE	5000	METERS								
4	SIMPLEX FIBER OPTICAL CABLE FOR COMMUNICATION BETWEEN SWGR LEVEL ETHERNET SWITCH's (& THEIR RINGS) & NETWORK LEVEL ETHERNET SWITCH	40000	METERS								
5	HDPE CONDUIT (RODENT FREE)	40000	METERS								USED FOR FIBER OPTICAL CABLE AT S.NO. 4
6	FO TERMINATION ACCESSORIES AT BIDDER'S SUPPLIED EQUIPMENT END UNDER THIS PACKAGE	1	SET								ANNEXURE-1_TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE FOR SCOPE AND TERMINAL POINT
7	LAPTOP PC WITH LICENCED VERSION SOFTWARE, HARDWARE FOR RELAY, IMC PARAMETERISATION	5	NOS.								
8	INTERFACE CABLE WITH SUITABLE CONNECTING PORT AT BOTH END FOR CONNECTION OF NUMERICAL RELAY FRONT PORT TO THE LAPTOP	55	NOS.								EACH CABLE OF LENGTH ATLEAST 5M
9	INTERFACE CABLE WITH SUITABLE CONNECTING PORT AT BOTH END FOR CONNECTION OF IMCC FRONT PORT TO THE LAPTOP	20	NOS.								EACH CABLE OF LENGTH ATLEAST 5M
10	<b>Total of Annexure B1</b>										

**NOTES:**

1	REFER ANNEXURE- 3_TENTATIVE SWITCHBOARD LOCATION DETAIL FOR DISTANCE BETWEEN SWITCHGEAR AND NETWORK LEVEL ETHERNET SWITCH IN MAIN CONTROL ROOM.
2	REFER ANNEXURE- 1_TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE FOR HMI REQUIREMENT.
3	BIDDER TO PROVIDE ONE NO. OF EACH TYPE OF IMCC MODULE ALONG WITH Y-LINK TO BHEL ON RETURNABLE BASIS & COORDINATE WITH BHEL FOR CONDUCTING FAT FOR IMCC AS PER CUSTOMER SATISFACTION.

**ANNEXURE-B2**

**AMC FOR NUMERICAL RELAY**

S. No.	Item Description	QTY.	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	GST@18% ON EX- WORKS (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
1	AMC for 3 years for following : - Numerical Relays (with IEC 61850) in all LV Switchgears - IEC 61850 Ethernet switches in Switchgear panels - Cat5e Ethernet cable / FO cable/ Optical Fibre Cable with fire retardant outer sheath - Optical fibre cable termination equipment such as LIU, patch cord etc. for complete network - Laptops - HMI stations (Engineering Work Stations and printers) - All other equipment required to meet the intended specification				-			AMC START DATE: REFER NOTE-1
1.1	1 <sup>st</sup> year	1	Lot					
1.2	2 <sup>nd</sup> year	1	Lot					
1.3	3 <sup>rd</sup> year	1	Lot					
2.0	<b>TOTAL OF ANNEXURE B2</b>							

**NOTES:**

1	THE COMMENCEMENT DATE FOR AMC WILL BE FROM THE DATE OF TAKEOVER BY THE END CUSTOMER. HOWEVER, TENTATIVE DATE OF AMC COMMENCEMENT SHALL BE 05.05.2028.
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## ANNEXURE-B3

## NETWORKING HARDWARE FOR WIRELESS TEMPERATURE MONITORING SENSOR

S. No.	Item Description	Qty.	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX- WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX- WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
1.A	COMPLETE NETWORKING HARDWARE(EXCEPT CABLE & TERMINATION ACCESSORIES) NEAR SWITCHGEAR END FOR COMMUNICATION BETWEEN WIRELESS TEMPERATURE RECEIVER END & DDCMIS/HMI FOR TEMPERATURE MONITORING SYSTEM :- FOR TWO SET OF SWITCHBOARDS- a. FIRST SET- 8DA, 8DB & 8DG b. SECOND SET- 9DA, 9DB & 9DG	2	SET								INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET IS FOR EACH UNIT (CONSISTS OF 3 SWITCHBOARDS)
1.B	SPECIAL CABLE(TWISTED PAIR/CAT/OPTICAL FIBRE CABLE OR AS APPLICABLE) INCLUDING TERMINATION ACCESSORIES FOR COMMUNICATION BETWEEN SWITCHGEAR & DDCMIS/HMI FOR TEMPERATURE MONITORING SYSTEM :- FOR TWO SET OF SWITCHBOARDS- a. FIRST SET- 8DA, 8DB & 8DG b. SECOND SET- 9DA, 9DB & 9DG	2	SET								INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET IS FOR EACH UNIT (CONSISTS OF 3 SWITCHBOARDS)
2.A	COMPLETE NETWORKING HARDWARE(EXCEPT CABLE & TERMINATION ACCESSORIES) NEAR SWITCHGEAR END FOR COMMUNICATION BETWEEN WIRELESS TEMPERATURE RECEIVER END & DDCMIS/HMI FOR TEMPERATURE MONITORING SYSTEM :- FOR TWO SET OF SWITCHBOARDS- a. FIRST SET- 0DA b. SECOND SET- 0DB	2	SET								INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET IS FOR EACH UNIT (CONSISTS OF 1 SWITCHBOARD)
2.B	SPECIAL CABLE(TWISTED PAIR/CAT/OPTICAL FIBRE CABLE OR AS APPLICABLE) INCLUDING TERMINATION ACCESSORIES FOR COMMUNICATION BETWEEN SWITCHGEAR & DDCMIS/HMI FOR TEMPERATURE MONITORING SYSTEM :- FOR TWO SET OF SWITCHBOARDS- a. FIRST SET- 0DA b. SECOND SET- 0DB	2	SET								INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET IS FOR EACH UNIT (CONSISTS OF 1 SWITCHBOARD)
<b>TOTAL OF ANNEXURE B3</b>											

## NOTES:

1	REFER ANNEXURE- 3_TENTATIVE SWITCHBOARD LOACTION DETAIL FOR DISTANCE BETWEEN SWITCHGEAR AND MAIN CONTROL ROOM.
2	FOR ABOVE ITEMS LISTED AT S.NO.1.A AND 1.B, BMCC(8DA), TMCC (8DB) and EMCC(8DG) OF ONE UNIT IS CONSIDERED AS 1 SET

**ANNEXURE-C**

**NUMERICAL RELAY, IMCC, WIRELESS TEMPERATURE MONITORING & HMI SYSTEMS - COMMISSIONING CHARGES**

S. No.	Item Description	Qty.	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	GST@18% ON EX- WORKS (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
1	LUMP SUM ALL INCLUSIVE CHARGES PER NUMERICAL RELAY COMMISSIONING (INCLUDING CONVEYANCE TO SITE, BOARDING AND LODGING)	410	NOS.					
2	LUMP SUM ALL INCLUSIVE CHARGES PER IMC COMMISSIONING (INCLUDING CONVEYANCE TO SITE, BOARDING AND LODGING)	3000	NOS.					
3.A	LUMP SUM ALL INCLUSIVE CHARGES FOR WIRELESS TEMPERATURE MONITORING SYSTEM COMMISSIONING. FOR TWO LOT OF SWITCHBOARDS- a. FIRST LOT- 8DA, 8DB & 8DG SWITCHBOARDS b. SECOND LOT- 9DA, 9DB & 9DG SWITCHBOARDS	2	LOT					1 LOT IS FOR EACH UNIT (CONSISTS OF 3 SWITCHBOARD). REFER NOTE NO.3A & 4A
3.B	LUMP SUM ALL INCLUSIVE CHARGES FOR WIRELESS TEMPERATURE MONITORING SYSTEM COMMISSIONING. FOR TWO LOT OF SWITCHBOARDS- a. FIRST LOT- 0DA SWITCHBOARD b. SECOND LOT- 0DB SWITCHBOARD	2	LOT					1 LOT IS FOR EACH UNIT (CONSISTS OF 1 SWITCHBOARD). REFER NOTE NO.3B & 4B
4	TESTING AND ERECTION & COMMISSIONING CHARGES FOR HMI-ITEMS AT SL. NO. 1-4 OF ANNEXURE-A	4	NOS.					1 NO. SHALL CONSIST OF TESTING AND ERECTION & COMMISSIONING OF ONE ITEM EACH OF SL.NO. 1-4 OF ANNEXURE-A
5	<b>TOTAL OF ANNEXURE C</b>							

**NOTES:**

1	AMOUNT PAYABLE FOR NUMERICAL RELAY COMMISSIONING = UNIT PRICE FOR COMMISSIONING CHARGES AS PER SL.NO.1 ABOVE x NO. OF RELAYS COMMISSIONED (SAME TO BE CERTIFIED BY BHEL).
2	AMOUNT PAYABLE FOR IMCC COMMISSIONING = UNIT PRICE FOR COMMISSIONING CHARGES AS PER SL.NO.2 ABOVE x NO. OF IMCC COMMISSIONED (SAME TO BE CERTIFIED BY BHEL).
3.A	AMOUNT PAYABLE FOR WIRELESS TEMPERATURE MONITORING SYSTEM COMMISSIONING FOR EACH UNIT (BMCC, TMCC and EMCC) = UNIT PRICE FOR COMMISSIONING CHARGES AS PER SL.NO.3.A ABOVE (SAME TO BE CERTIFIED BY BHEL).
3.B	AMOUNT PAYABLE FOR WIRELESS TEMPERATURE MONITORING SYSTEM COMMISSIONING FOR EACH UNIT (STATION SERVICE SWITCHBOARD) = UNIT PRICE FOR COMMISSIONING CHARGES AS PER SL.NO.3.B ABOVE (SAME TO BE CERTIFIED BY BHEL).
4.A	FOR LINE ITEM 3.A, TESTING AND COMMISSIONING OF WIRELESS TEMPERATURE MONITORING SYSTEM FOR BMCC(8DA), TMCC (8DB) and EMCC(8DG) OF ONE UNIT IS CONSIDERED AS 1 LOT, SIMILARLY 3 BOARDS OF ANOTHER UNIT FOR 2ND LOT.
4.B	FOR LINE ITEM 3.B, TESTING AND COMMISSIONING OF WIRELESS TEMPERATURE MONITORING SYSTEM FOR STATION SERVICE SWITCHBOARD (0DA) OF ONE UNIT IS CONSIDERED AS 1 LOT, SIMILARLY 1 BOARD OF ANOTHER UNIT FOR 2ND LOT.
5	APPROXIMATELY 15 NOS. OF NUMERICAL RELAYS AND/OR 50 NOS. OF IMCS CAN BE CONSIDERED BY BIDDER FOR COMMISSIONING IN EACH VISIT.
6	FOR LINE ITEM 1, 2, 3.A & 3.B, BIDDER TO NOTE THAT TESTING, CONFIGURATION AND NETWORKING SETUP OF RELAY, IMC & TEMPERATURE MONITORING SYSTEM SHALL BE THE BIDDER'S RESPONSIBILITY COMPLETELY.
7	FOR LINE ITEM 4, BIDDER TO NOTE THAT ERECTION & COMMISSIONING, TESTING, CONFIGURATION AND NETWORKING SETUP OF HMI SYSTEM SHALL BE THE BIDDER'S RESPONSIBILITY COMPLETELY.
8	BIDDER TO COORDINATE WITH DCS SUPPLIER (BHEL EDN) TO ENSURE SMOOTH AND EFFECTIVE COMMUNICATION BETWEEN NUMERICAL RELAY/ Y-LINK AND DCS, AS WELL AS BETWEEN TEMPERATURE MONITORING SYSTEM AND DCS/HMI.
9	FOR LINE ITEMS 1 TO 4, BIDDER TO DEPUTE ITS MANPOWER WITHIN 15 DAYS FROM THE DATE OF INTIMATION BY BHEL.

**ANNEXURE-D**

**TOOLS & TACKLES**

S. No.	Item Description	Quantity	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	FREIGHT % IN W.R.T TOTAL EX- WORKS (IN %)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EXWORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)	Remarks
1	ACB RACKING HANDLE	30	Nos.								
2	TELESCOPIC TROLLEY (TROLLEY FOR ACB HANDLING)	20	Nos.								
3	DOOR KEY	100	Nos.								
4	RELAY TEST EQUIPMENT	2	Nos.								
5	MODULE RACKING HANDLE	30	Nos.								
6											
7											
8											
9											
10											
11											
12											
14											
15											
16	<b>TOTAL OF ANENXURE -D</b>										

**NOTES:**

1	BIDDER HAS TO QUOTE FOR TOOLS AND TACKLES MENTIONED ABOVE. HOWEVER, BIDDER HAS TO INDICATE ANY SPECIAL TOOLS (IF REQUIRED).
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**ANNEXURE-E**

**SITE MODIFICATION CHARGES**

S. No.	Item Description	Quantity	Unit	UNIT PRICE (Ex-WORKS) Rs.	TOTAL PRICE (Ex-WORKS) Rs.	GST@18% ON EX- WORKS (Rs.)	TOTAL FOR SITE PRICE (Rs.)
1	LUMP SUM ALL INCLUSIVE CHARGES PER VISIT FOR SKILLED TECHNICIAN (EXCEPT DAILY CHARGES)	15	VISITS				
2	LUMP SUM ALL INCLUSIVE DAILY CHARGES FOR SKILLED TECHNICIAN	60	DAYS				
3	LUMP SUM ALL INCLUSIVE CHARGES PER VISIT FOR SERVICE ENGINEER (EXCEPT DAILY CHARGES)	15	VISITS				
4	LUMP SUM ALL INCLUSIVE DAILY CHARGES FOR SERVICE ENGINEER	60	DAYS				
5	SITE MODIFICATION MATERIAL @ 1% OF TOTAL BOARD COST (i.e. SUMMATION OF S.NO. 1 TO S.NO. 64 OF BOQ CUM PRICE SCHEDULE)	1	SET				
6	<b>TOTAL OF ANNEXURE E</b>						

**NOTES:**

- 1 AMOUNT PAYABLE FOR SKILLED TECHNICIAN PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. 1 ABOVE + (DAILY CHARGES AS PER SL. NO. 2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE)
- 2 AMOUNT PAYABLE FOR SERVICE ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. 3 ABOVE + (DAILY CHARGES AS PER SL. NO. 4 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE)
- 3 AMOUNT PAYABLE FOR SITE MODIFICATION MATERIAL SHALL BE BASED ON THE ACTUAL COST OF THE MATERIALS UTILIZED. (TO BE CERTIFIED BY BHEL SITE).  
THE COST OF THE ACTUAL MATERIALS USED WILL BE DETERMINED USING THE UNIT RATE PROVIDED BY THE BIDDER IN THE ANNEXURE-H.
- 4 FOR LINE ITEMS 1 TO 4, BIDDER TO DEPUTE ITS MANPOWER WITHIN 15 DAYS FROM THE DATE OF INTIMATION BY BHEL.





**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
<b>1</b>	<b>INCOMING FEEDER UNIT</b>				
a)	ACB Incomer to PCC/PMCC from Trafo. - Module Type DAET (I/C)				
	1000A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
b)	ACB Incomer to MCC - Module Type DAE (I/C)				
	630A	1	No.		
	800A	1	No.		
	1000A	1	No.		
	1250A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
c)	ACB Incomer to Emergency Board - Module Type DG(I/C)				
	800A	1	No.		
	1000A	1	No.		
	1250A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
d)	MCCB Incomer for MCC / ACDB – Module Type E3 (I/C)				
	63A – Fixed Type	1	No.		
	125A – Fixed Type	1	No.		
	160A – Fixed Type	1	No.		
	200A – Fixed Type	1	No.		
	250A – Fixed Type	1	No.		
	300A – Fixed Type	1	No.		
	400A – Fixed Type	1	No.		
	63A – Drawout Type	1	No.		
	125A – Drawout Type	1	No.		
	160A – Drawout Type	1	No.		
	200A – Drawout Type	1	No.		
	250A – Drawout Type	1	No.		
	300A – Drawout Type	1	No.		
	400A – Drawout Type	1	No.		
e)	MCCB Incomer with contactor changeover – Module Type CC				
	16A – Fixed Type	1	No.		
	32A – Fixed Type	1	No.		
	63A – Fixed Type	1	No.		
	125A – Fixed Type	1	No.		
	200A – Fixed Type	1	No.		
	250A – Fixed Type	1	No.		
	300A – Fixed Type	1	No.		
	400A – Fixed Type	1	No.		
	16A – Drawout Type	1	No.		
	32A – Drawout Type	1	No.		
	63A – Drawout Type	1	No.		
	125A – Drawout Type	1	No.		
	200A – Drawout Type	1	No.		
	250A – Drawout Type	1	No.		
	300A – Drawout Type	1	No.		
	400A – Drawout Type	1	No.		
f)	220V DCDB Incomer from charger - Module type CH (I/C)				
	50A – CH Fixed Type	1	No.		
	100A – CH Fixed Type	1	No.		
	125A – CH Fixed Type	1	No.		
	150A – CH Fixed Type	1	No.		
	200A – CH Fixed Type	1	No.		
	300A – CH Fixed Type	1	No.		
	400A – CH Fixed Type	1	No.		
	450A – CH Fixed Type	1	No.		
	500A – CH Fixed Type	1	No.		
	630A – CH Fixed Type	1	No.		
	800A – CH Fixed Type	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	1000A – CH Fixed Type	1	No.		
	1250A – CH Fixed Type	1	No.		
	1600A – CH Fixed Type	1	No.		
	50A – CH Drawout Type	1	No.		
	100A – CH Drawout Type	1	No.		
	125A – CH Drawout Type	1	No.		
	150A – CH Drawout Type	1	No.		
	200A – CH Drawout Type	1	No.		
	300A – CH Drawout Type	1	No.		
	400A – CH Drawout Type	1	No.		
	450A – CH Drawout Type	1	No.		
	500A – CH Drawout Type	1	No.		
	630A – CH Drawout Type	1	No.		
	800A – CH Drawout Type	1	No.		
	1000A – CH Drawout Type	1	No.		
	1250A – CH Drawout Type	1	No.		
	1600A – CH Drawout Type	1	No.		
	g) 220V DCDB Incomer from battery - Module type DB (I/C)				
	50A – DB Fixed Type	1	No.		
	100A – DB Fixed Type	1	No.		
	125A – DB Fixed Type	1	No.		
	150A – DB Fixed Type	1	No.		
	200A – DB Fixed Type	1	No.		
	300A – DB Fixed Type	1	No.		
	400A – DB Fixed Type	1	No.		
	450A – DB Fixed Type	1	No.		
	500A – DB Fixed Type	1	No.		
	630A – DB Fixed Type	1	No.		
	800A – DB Fixed Type	1	No.		
	1000A – DB Fixed Type	1	No.		
	1250A – DB Fixed Type	1	No.		
	1600A – DB Fixed Type	1	No.		
	50A – DB Drawout Type	1	No.		
	100A – DB Drawout Type	1	No.		
	125A – DB Drawout Type	1	No.		
	150A – DB Drawout Type	1	No.		
	200A – DB Drawout Type	1	No.		
	300A – DB Drawout Type	1	No.		
	400A – DB Drawout Type	1	No.		
	450A – DB Drawout Type	1	No.		
	500A – DB Drawout Type	1	No.		
	630A – DB Drawout Type	1	No.		
	800A – DB Drawout Type	1	No.		
	1000A – DB Drawout Type	1	No.		
	1250A – DB Drawout Type	1	No.		
	1600A – DB Drawout Type	1	No.		
<b>2</b>	<b>BUSCOUPLER UNIT</b>				
	a) ACB Buscoupler to PCC/PMCC/MCC - Module Type DAET/ DAE (B/C)				
	630A	1	No.		
	800A	1	No.		
	1000A	1	No.		
	1250A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
	b) MCCB Buscoupler for MCC / ACDB – Module Type E3 (B/C)				
	63A – Fixed Type	1	No.		
	125A – Fixed Type	1	No.		
	160A – Fixed Type	1	No.		
	200A – Fixed Type	1	No.		
	250A – Fixed Type	1	No.		
	300A – Fixed Type	1	No.		
	400A – Fixed Type	1	No.		
	63A – Drawout Type	1	No.		
	125A – Drawout Type	1	No.		
	160A – Drawout Type	1	No.		
	200A – Drawout Type	1	No.		
	250A – Drawout Type	1	No.		
	300A – Drawout Type	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	400A – Drawout Type	1	No.		
c)	220V DCDB buscoupler - Module Type - DC				
	50A – DC Fixed Type	1	No.		
	100A – DC Fixed Type	1	No.		
	125A – DC Fixed Type	1	No.		
	150A – DC Fixed Type	1	No.		
	200A – DC Fixed Type	1	No.		
	300A – DC Fixed Type	1	No.		
	400A – DC Fixed Type	1	No.		
	450A – DC Fixed Type	1	No.		
	500A – DC Fixed Type	1	No.		
	630A – DC Fixed Type	1	No.		
	800A – DC Fixed Type	1	No.		
	1000A – DC Fixed Type	1	No.		
	1250A – DC Fixed Type	1	No.		
	1600A – DC Fixed Type	1	No.		
	50A – DC Drawout Type	1	No.		
	100A – DC Drawout Type	1	No.		
	125A – DC Drawout Type	1	No.		
	150A – DC Drawout Type	1	No.		
	200A – DC Drawout Type	1	No.		
	300A – DC Drawout Type	1	No.		
	400A – DC Drawout Type	1	No.		
	450A – DC Drawout Type	1	No.		
	500A – DC Drawout Type	1	No.		
	630A – DC Drawout Type	1	No.		
	800A – DC Drawout Type	1	No.		
	1000A – DC Drawout Type	1	No.		
	1250A – DC Drawout Type	1	No.		
	1600A – DC Drawout Type	1	No.		
d)	220V DCDB TIE - Module Type - HD				
	50A – HD Fixed Type	1	No.		
	100A – HD Fixed Type	1	No.		
	125A – HD Fixed Type	1	No.		
	150A – HD Fixed Type	1	No.		
	200A – HD Fixed Type	1	No.		
	300A – HD Fixed Type	1	No.		
	400A – HD Fixed Type	1	No.		
	450A – HD Fixed Type	1	No.		
	500A – HD Fixed Type	1	No.		
	630A – HD Fixed Type	1	No.		
	800A – HD Fixed Type	1	No.		
	1000A – HD Fixed Type	1	No.		
	1250A – HD Fixed Type	1	No.		
	1600A – HD Fixed Type	1	No.		
	50A – HD Drawout Type	1	No.		
	100A – HD Drawout Type	1	No.		
	125A – HD Drawout Type	1	No.		
	150A – HD Drawout Type	1	No.		
	200A – HD Drawout Type	1	No.		
	300A – HD Drawout Type	1	No.		
	400A – HD Drawout Type	1	No.		
	450A – HD Drawout Type	1	No.		
	500A – HD Drawout Type	1	No.		
	630A – HD Drawout Type	1	No.		
	800A – HD Drawout Type	1	No.		
	1000A – HD Drawout Type	1	No.		
	1250A – HD Drawout Type	1	No.		
	1600A – HD Drawout Type	1	No.		
<b>3</b>	<b>ACB outgoing supply feeder - Module Type DAE (O/G)/DAE-TIE</b>				
	630A	1	No.		
	800A	1	No.		
	1000A	1	No.		
	1250A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
<b>4</b>	<b>ACB outgoing motor feeder - Module Type DM/PM/AM (controlled from DDCMIS/PLC/ATRS)</b>				

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	90- 200KW	1	No.		
<b>5</b>	<b>MCCB outgoing supply feeders</b>				
a)	Module Type E3(O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	160A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	300A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	160A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	300A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
b)	Module Type E3-TP (O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	160A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	300A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	160A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	300A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
c)	Module Type ES3 (O/G)				
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	160A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	160A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
d)	2-ph feeder Module Type E2(O/G)				
	100A - Fixed type	1	No.		
	160A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	300A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	100A - Drawout Type	1	No.		
	160A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	300A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
e)	Double pole 1-ph feeder Module Type E1(O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
f)	3-Ph MCCB controlled outgoing contactor feeder with IMC Module Type EA3(O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
g)	3-Ph MCCB controlled outgoing contactor feeder without IMC Module Type ET3(O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
h)	1-Ph MCCB controlled outgoing contactor feeder Module Type EA1(O/G)				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
i)	220V DC Outgoing MCCB Type (X) Feeder				
	16A - Fixed type	1	No.		
	32A - Fixed type	1	No.		
	63A - Fixed type	1	No.		
	100A - Fixed type	1	No.		
	125A - Fixed type	1	No.		
	200A - Fixed type	1	No.		
	250A - Fixed type	1	No.		
	300A - Fixed type	1	No.		
	400A - Fixed type	1	No.		
	600A - Fixed type	1	No.		
	800A - Fixed type	1	No.		
	16A - Drawout Type	1	No.		
	32A - Drawout Type	1	No.		
	63A - Drawout Type	1	No.		
	100A - Drawout Type	1	No.		
	125A - Drawout Type	1	No.		
	200A - Drawout Type	1	No.		
	250A - Drawout Type	1	No.		
	300A - Drawout Type	1	No.		
	400A - Drawout Type	1	No.		
	600A - Drawout Type	1	No.		
	800A - Drawout Type	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
<b>6</b>	<b>DOL Motor Starter - Unidirectional Drive - Drawout Type</b>				
a)	Module Type DK2 / PK2 / AK2 (controlled from DDCMIS/PLC/ATRS)				
	Upto 5.5KW	1	No.		
	5.6 - 7.0KW	1	No.		
	7.1 - 13KW	1	No.		
	13.1 - 24KW	1	No.		
	24.1 - 29.9KW	1	No.		
b)	Module Type DK21 / PK21 / AK21 (controlled from DDCMIS/PLC/ATRS)				
	30.0 - 37.0KW	1	No.		
	37.1 - 55KW	1	No.		
	55.1 - 80.0KW	1	No.		
	80.1 - 89.9KW	1	No.		
c)	Module Type DK2E/PK2E/AK2E (Reacceleration) (controlled from DDCMIS/PLC/ATRS)				
	Upto 5.5KW	1	No.		
	5.6 - 7.0KW	1	No.		
	7.1 - 13KW	1	No.		
	13.1 - 24KW	1	No.		
	24.1 - 29.9KW	1	No.		
d)	Module Type DK21E/PK21E/AK21E (Reacceleration) (controlled from DDCMIS/PLC/ATRS)				
	30.0 - 37.0KW	1	No.		
	37.1 - 55KW	1	No.		
	55.1 - 80.0KW	1	No.		
	80.1 - 89.9KW	1	No.		
e)	Module Type K2 (Controlled from LCP)				
	Upto 5.5KW	1	No.		
	5.6 - 7.0KW	1	No.		
	7.1 - 13KW	1	No.		
	13.1 - 24KW	1	No.		
	24.1 - 29.9KW	1	No.		
f)	Module Type K21 (Controlled from LCP)				
	30.0 - 37.0KW	1	No.		
	37.1 - 55KW	1	No.		
	55.1 - 80.0KW	1	No.		
	80.1 - 89.9KW	1	No.		
g)	Module Type K3 (Controlled from LPBS)				
	Upto 5.5KW	1	No.		
	5.6 - 7.0KW	1	No.		
	7.1 - 13KW	1	No.		
	13.1 - 24KW	1	No.		
	24.1 - 29.9KW	1	No.		
h)	Module Type K31 (Controlled from LPBS)				
	30.0 - 37.0KW	1	No.		
	37.1 - 55KW	1	No.		
	55.1 - 80.0KW	1	No.		
	80.1 - 89.9KW	1	No.		
<b>7</b>	<b>RDOL Motor Starter - Bidirectional Drive - Drawout Type</b>				
a)	Module Type DN1/ PN1/ AN1 (controlled from DDCMIS/PLC/ATRS)				
	Upto 5.5KW	1	No.		
	5.6 - 7.0KW	1	No.		
	7.1 - 13KW	1	No.		
	13.1 - 24KW	1	No.		
	24.1 - 29.9KW	1	No.		
	30.0 - 37.0KW	1	No.		
	37.1 - 55KW	1	No.		
	55.1 - 80.0KW	1	No.		
	80.1 - 89.9KW	1	No.		
<b>8.1</b>	Rapping Motor (RM1) Module with IMC	1	No.		
<b>8.2</b>	Rapping Motor (RM2) Module with OLR	1	No.		
<b>9</b>	DUST DENSITY MONITOR (DDM) Module	1	No.		
<b>10</b>	HOPPER HEATER (HH) Module	1	No.		
<b>11</b>	SUPPORT INSULATOR HEATER (HI) Module	1	No.		
<b>12</b>	SHAFT INSULATOR HEATER (HS) Module	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
13	Ash Level Indicator (ALI) Module	1	No.		
14	ARECA MARSHALING (ARECA) Module	1	No.		
15	WAVE LEVEL TRANSMITTER (WLT) Module	1	No.		
16	MARSHALING MODULE FOR SSPB OF RAPPING MOTOR AND HOPPER HEATER FEEDBACK (MM)	1	No.		
17	WALL BLOWER Module	1	No.		
18	LR BLOWER Module	1	No.		
19	AH BLOWER Module	1	No.		
20	JAMMING RELAY Module	1	No.		
21	Wireless Temperature Sensor (WTS1) Module (In one ACB/PCC panel with single ACB)	1	No.		
22	Wireless Temperature Sensor (WTS2) Module (In one ACB panel with double ACB)	1	No.		
23	Wireless Temperature Sensor (WTS3) Module (In one Double front MCC panel)	1	No.		
24	<b>Common Auxiliary Module</b>				
	a) PT module				
	i) Bus PT module for PCC/PMCC - G1 Type	1	No.		
	ii) Bus PT module for Emergency MCC - G2 Type	1	No.		
	iii) Bus PT module for MCC/ACDB - VM Type	1	No.		
	iv) Bus PT DCDB - S Type	1	No.		
	b.1) 110V AC control supply module – Type CS (consisting of 415/110V control Trafo.)				
	1KVA	1	No.		
	2KVA	1	No.		
	2.5KVA	1	No.		
	3KVA	1	No.		
	5KVA	1	No.		
	7.5KVA	1	No.		
	10KVA	1	No.		
	b.2) 240 V AC control supply module – type CS (consisting of 415/240V control Trafo.)				
	1KVA	1	No.		
	2KVA	1	No.		
	2.5KVA	1	No.		
	3KVA	1	No.		
	5KVA	1	No.		
	7.5KVA	1	No.		
	10KVA	1	No.		
	b.3) 24V AC control supply module – Type CS (consisting of 415/24V control Trafo.)				
	250VA	1	No.		
	500VA	1	No.		
	1KVA	1	No.		
	2KVA	1	No.		
	2.5KVA	1	No.		
	3KVA	1	No.		
	5KVA	1	No.		
	7.5KVA	1	No.		
	10KVA	1	No.		
	c) 240V AC motor space heater module	1	No.		
	d) 220V DC supply module (for receiving 220V DC supply)	1	No.		
	e) 24V DC supply module	1	No.		
	f) 24 V winding heating module	1	No.		
	g) Alarm module	1	No.		
	h) Test supply module	1	No.		
	i) 240 V AC Panel Space heating supply module – type SH (consisting of 415/240V control Trafo.)				
	1KVA	1	No.		
	2KVA	1	No.		
	2.5KVA	1	No.		
	3KVA	1	No.		
	5KVA	1	No.		
	7.5KVA	1	No.		
	10KVA	1	No.		
	j) 240V AC SPACE HEATER SUPPLY MODULE- SHS	1	No.		
	k) Y-Link	1	No.		
25	<b>Empty Panel with Horizontal &amp; Vertical Busbar, Support &amp; Auxiliary Busbar (4 Wire System)</b>				
	a) PCC Panel (Single Front Drawout Type) Without Temperature Sensor				
	630 / 630A	1	No.		
	1000 / 1000A	1	No.		
	1250 / 1250A	1	No.		
	1600 / 1600A	1	No.		
	2000 / 2000A	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	2500 / 2500A	1	No.		
	3000 / 3000A	1	No.		
	4000 / 4000A	1	No.		
b)	MCC Panel (Single Front Fixed Type )				
	63 / 63A	1	No.		
	250 / 250A	1	No.		
	400 / 400A	1	No.		
	630 / 630A	1	No.		
	800 / 630A	1	No.		
	1000 / 630A	1	No.		
	1250 / 630A	1	No.		
	1600 / 630A	1	No.		
	2000 / 630A	1	No.		
	2500 / 630A	1	No.		
	3000 / 630A	1	No.		
	4000 / 630A	1	No.		
c)	MCC Panel (Single Front Drawout Type)				
	63 / 63A	1	No.		
	250 / 250A	1	No.		
	400 / 400A	1	No.		
	630 / 630A	1	No.		
	800 / 630A	1	No.		
	1000 / 630A	1	No.		
	1250 / 630A	1	No.		
	1600 / 630A	1	No.		
	2000 / 630A	1	No.		
	2500 / 630A	1	No.		
	3000 / 630A	1	No.		
	4000 / 630A	1	No.		
d)	MCC Panel (Double Front Drawout Type)				
	63 / 63A	1	No.		
	250 / 250A	1	No.		
	400 / 400A	1	No.		
	630 / 630A	1	No.		
	800 / 630A	1	No.		
	1000 / 630A	1	No.		
	1250 / 630A	1	No.		
	1600 / 630A	1	No.		
	2000 / 630A	1	No.		
	2500 / 630A	1	No.		
	3000 / 630A	1	No.		
	4000 / 630A	1	No.		
e)	ACDB Panel (Double Front Fixed Type)				
	250 / 250A	1	No.		
	400 / 400A	1	No.		
	630 / 250A	1	No.		
	630 / 630A	1	No.		
f)	220V DCDB Panel (Single Front Fixed type) with 20kA, 1 second fault Level				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 630A (with 630A VBB)	1	No.		
	1000A (with 630A VBB)	1	No.		
	1600A (with 630A VBB)	1	No.		
g)	220V DCDB Panel (Single Front Fixed type) with 40kA, 1 second fault Level				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 630A (with 630A VBB)	1	No.		
	1000A (with 630A VBB)	1	No.		
	1600A (with 630A VBB)	1	No.		
h)	220V DCDB Panel (Double Front Fixed type) with 20kA, 1 second fault Level				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 630A (with 630A VBB)	1	No.		
	1000A (with 630A VBB)	1	No.		
	1250A (with 630A VBB)	1	No.		
	1600A (with 630A VBB)	1	No.		
i)	220V DCDB Panel (Double Front Fixed type) with 40kA, 1 second fault Level				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 630A (with 630A VBB)	1	No.		
	1000A (with 630A VBB)	1	No.		
	1250A (with 630A VBB)	1	No.		
	1600A (with 630A VBB)	1	No.		
j)	48V DCDB Panel (Single Front Fixed type)				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 200A (with 200A VBB)	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	UPTO 630A (with 630A VBB)	1	No.		
k)	48V DCDB Panel (Double Front Fixed type)				
	UPTO 125A (with 125A VBB)	1	No.		
	UPTO 200A (with 200A VBB)	1	No.		
	UPTO 630A (with 630A VBB)	1	No.		
l)	Empty ACB Panel with Horizontal & Vertical Busbar, Support & Auxiliary Busbar				
	630 / 630A	1	No.		
	800 / 630A	1	No.		
	800 / 800A	1	No.		
	1000 / 630A	1	No.		
	1000 / 800A	1	No.		
	1000 / 1000A	1	No.		
	1250 / 630A	1	No.		
	1250 / 800A	1	No.		
	1250 / 1000A	1	No.		
	1250 / 1250A	1	No.		
	1600 / 630A	1	No.		
	1600 / 800A	1	No.		
	1600 / 1000A	1	No.		
	1600 / 1250A	1	No.		
	1600 / 1600A	1	No.		
	2000 / 630A	1	No.		
	2000 / 800A	1	No.		
	2000 / 1000A	1	No.		
	2000 / 1250A	1	No.		
	2000 / 1600A	1	No.		
	2000 / 2000A	1	No.		
	2500 / 630A	1	No.		
	2500 / 800A	1	No.		
	2500 / 1000A	1	No.		
	2500 / 1250A	1	No.		
	2500 / 1600A	1	No.		
	2500 / 2000A	1	No.		
	2500 / 2500A	1	No.		
	3000 / 630A	1	No.		
	3000 / 800A	1	No.		
	3000 / 1000A	1	No.		
	3000 / 1250A	1	No.		
	3000 / 1600A	1	No.		
	3000 / 2000A	1	No.		
	3000 / 2500A	1	No.		
	3000 / 3000A	1	No.		
	4000 / 630A	1	No.		
	4000 / 800A	1	No.		
	4000 / 1000A	1	No.		
	4000 / 1250A	1	No.		
	4000 / 1600A	1	No.		
	4000 / 2000A	1	No.		
	4000 / 2500A	1	No.		
	4000 / 3000A	1	No.		
	4000 / 4000A	1	No.		
<b>26</b>	<b>Empty Panel with Horizontal &amp; Vertical Busbar, Support &amp; Auxiliary Busbar (3 Wire System)</b>				
a)	PCC Panel (Single Front Drawout Type) Without Temperature Sensor				
	2000 / 2000A	1	No.		
	3000 / 3000A	1	No.		
b)	MCC Panel (Double Front Drawout Type)				
	2000 / 630A	1	No.		
	3000 / 630A	1	No.		
c)	ACDB Panel (Double Front Fixed Type)				
	250 / 250A	1	No.		
	400 / 400A	1	No.		
d)	Empty ACB Panel with Horizontal & Vertical Busbar, Support & Auxiliary Busbar				
	2000 / 630A	1	No.		
	2000 / 800A	1	No.		
	2000 / 1000A	1	No.		
	2000 / 1250A	1	No.		
	2000 / 1600A	1	No.		
	2000 / 2000A	1	No.		
	3000 / 630A	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	3000 / 800A	1	No.		
	3000 / 1000A	1	No.		
	3000 / 1250A	1	No.		
	3000 / 1600A	1	No.		
	3000 / 2000A	1	No.		
	3000 / 2500A	1	No.		
	3000 / 3000A	1	No.		
<b>27</b>	<b>Dummy Panel</b>				
	UPTO 630A	1	No.		
	800A	1	No.		
	1000A	1	No.		
	1250A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
<b>28</b>	<b>Unit Prices For Circuit Components</b>				
a)	Air Circuit Breaker without releases				
	630A ACB, 4P, EDO, AC	1	No.		
	800A ACB, 4P, EDO, AC	1	No.		
	1000A ACB, 4P, EDO, AC	1	No.		
	1250A ACB, 4P, EDO, AC	1	No.		
	1600A ACB, 4P, EDO, AC	1	No.		
	2000A ACB, 4P, EDO, AC	1	No.		
	2500A ACB, 4P, EDO, AC	1	No.		
	3000A ACB, 4P, EDO, AC	1	No.		
	4000A ACB, 4P, EDO, AC	1	No.		
	630A ACB, 3P, EDO, AC	1	No.		
	800A ACB, 3P, EDO, AC	1	No.		
	1000A ACB, 3P, EDO, AC	1	No.		
	1250A ACB, 3P, EDO, AC	1	No.		
	1600A ACB, 3P, EDO, AC	1	No.		
	2000A ACB, 3P, EDO, AC	1	No.		
	2500A ACB, 3P, EDO, AC	1	No.		
	3000A ACB, 3P, EDO, AC	1	No.		
	4000A ACB, 3P, EDO, AC	1	No.		
	800A ACB, 2P, MDO, DC	1	No.		
	1000A ACB, 2P, MDO, DC	1	No.		
	1250A ACB, 2P, MDO, DC	1	No.		
	1600A ACB, 2P, MDO, DC	1	No.		
b)	MPCB, Short-Circuit Release				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	115A	1	No.		
	150A	1	No.		
c)	TP MCCB, 2NO+2NC AUX, FSC & O/L RELEASE				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		
	160A	1	No.		
	200A	1	No.		
	250A	1	No.		
	315A	1	No.		
	400A	1	No.		
d)	TP MCCB, 2NO+2NC AUX, ADJ S/C & O/L RELEASE				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		
	160A	1	No.		
	200A	1	No.		
	250A	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	315A	1	No.		
	400A	1	No.		
e)	TP MCCB with LSIG release				
	200A	1	No.		
	250A	1	No.		
	300A	1	No.		
	350A	1	No.		
	400A	1	No.		
f)	TP MCCB - Motorized with LSIG release				
	200A	1	No.		
	250A	1	No.		
	300A	1	No.		
	350A	1	No.		
	400A	1	No.		
g)	Power contactor (AC) ( With 2NO & 2NC Minimum)				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	115A	1	No.		
	150A	1	No.		
	185A	1	No.		
	265A	1	No.		
	315A	1	No.		
	400A	1	No.		
h)	Power contactor (DC) ( With 2NO & 2NC Minimum)				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	115A	1	No.		
	150A	1	No.		
	185A	1	No.		
	265A	1	No.		
	400A	1	No.		
i)	AC Aux. contactor With				
	2NO + 2NC	1	No.		
	3NO + 3NC	1	No.		
	4NO + 4NC	1	No.		
	6NO + 6NC	1	No.		
j)	DC Aux. contactor With				
	2NO + 2NC	1	No.		
	3NO + 3NC	1	No.		
	4NO + 4NC	1	No.		
	6NO + 6NC	1	No.		
k)	Protection Relay				
	VAGM 23	1	No.		
	CTU 12	1	No.		
	CTU 32	1	No.		
	VTT 11	1	No.		
	VAG 11	1	No.		
	VAA 11	1	No.		
	VAJHM 13	1	No.		
	VAJHM 23	1	No.		
	CDGM-12	1	No.		
	CAG 12	1	No.		
	CAG 34	1	No.		
	CCUM 21	1	No.		
	CDG 11	1	No.		
	CDG 31	1	No.		
	CDG 61	1	No.		
	VDG 14	1	No.		
	CDV 62	1	No.		
	CAG 14	1	No.		
	VAX 31	1	No.		
	CAG 37	1	No.		
	CAEM-21	1	No.		
	VAG-21	1	No.		
	VAJC-11	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	CTMM-501	1	No.		
	MOTPRO	1	No.		
	VAA21	1	No.		
	VTT12	1	No.		
	VTIG	1	No.		
	VTU21	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), STAND BY EARTH FAULT PROTECTION (51NS), RESTRICTED EARTH FAULT PROTECTION (64R), BUS NO VOLT, FAULT LOCKOUT FUNCTION (86), UNDER VOLTAGE WITH TIMER (27M), SYNCHRONISING CHECK FUNCTION (25, CIRCUIT BREAKER FAILURE (50BF), RELAY SELF SUPERVISION, CIRCUIT BREAKER CONDITION MONITORING, TRIP CIRCUIT SUPERVISION (95), CURRENT TRANSFORMER SUPERVISION, VOLTAGE TRANSFORMER SUPERVISION, BREAKER CONTROL with I/L, DISTURBANCE RECORDING, FAULT RECORDING, EVENT RECORDING, MEASUREMENT FUNCTIONS (3I, Io, 3U, Uo, Hz, P, Q, E, PF)	1	No.		
	SEF NUMERICAL RELAY	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), STAND BY EARTH FAULT PROTECTION (51NS), RESTRICTED EARTH FAULT PROTECTION (64R), BUS NO VOLT, FAULT LOCKOUT FUNCTION (86), UNDER VOLTAGE WITH TIMER (27M), SYNCHRONISING CHECK FUNCTION (25, CIRCUIT BREAKER FAILURE (50BF), RELAY SELF SUPERVISION, CIRCUIT BREAKER CONDITION MONITORING, TRIP CIRCUIT SUPERVISION (95), CURRENT TRANSFORMER SUPERVISION, VOLTAGE TRANSFORMER SUPERVISION, BREAKER CONTROL with I/L, DISTURBANCE RECORDING, FAULT RECORDING, EVENT RECORDING, MEASUREMENT FUNCTIONS (3I, Io, 3U, Uo, Hz, P, Q, E, PF), MEASUREMENT AND DISPLAY OF HARMONIC CONTECT OF VOLTAGE & CURRENT	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), BUS NO VOLT, FAULT LOCKOUT FUNCTION (86), UNDER VOLTAGE WITH TIMER (27M), SYNCHRONISING CHECK FUNCTION (25, CIRCUIT BREAKER FAILURE (50BF), RELAY SELF SUPERVISION, CIRCUIT BREAKER CONDITION MONITORING, TRIP CIRCUIT SUPERVISION (95), CURRENT TRANSFORMER SUPERVISION, VOLTAGE TRANSFORMER SUPERVISION, BREAKER CONTROL with I/L, DISTURBANCE RECORDING, FAULT RECORDING, EVENT RECORDING, MEASUREMENT FUNCTIONS (3I, Io, 3U, Uo, Hz, P, Q, E, PF)	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), RESTRICTED EARTH FAULT PROTECTION (64R), BUS NO VOLT, FAULT LOCKOUT FUNCTION (86), UNDER VOLTAGE WITH TIMER (27M), SYNCHRONISING CHECK FUNCTION (25, CIRCUIT BREAKER FAILURE (50BF), DIFFERENTIAL PROTECTION (87) (HIGH IMPEDANCE), REVERSE POWER PROTECTION, DG NEUTRAL DISPLACEMENT (59), DG MONITORING, RELAY SELF SUPERVISION, CIRCUIT BREAKER CONDITION MONITORING, TRIP CIRCUIT SUPERVISION (95), CURRENT TRANSFORMER SUPERVISION, VOLTAGE TRANSFORMER SUPERVISION, BREAKER CONTROL with I/L, DISTURBANCE RECORDING, FAULT RECORDING, EVENT RECORDING, MEASUREMENT FUNCTIONS (3I, Io, 3U, Uo, Hz, P, Q, E, PF)	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), STALLING/ LOCKED ROTOR PROTECTION (50L/R), THERMAL OVERLAOD PROTECTION (49), NEGATIVE PHASE SEQUENCE PROTECTION (46), BUS NO VOLT, REPETATIVE START PROTECTION (66), FAULT LOCKOUT FUNCTION (86), UNDER VOLTAGE WITH TIMER (27M), MOTOR DIFFERENTIAL PROTECTION (87M), CIRCUIT BREAKER FAILURE (50BF), PHASE REVERSAL PROTECTION (46R), CURRENT UNBALANCE PROTECTION, RELAY SELF SUPERVISION, CIRCUIT BREAKER CONDITION MONITORING, TRIP CIRCUIT SUPERVISION (95), CURRENT TRANSFORMER SUPERVISION, VOLTAGE TRANSFORMER SUPERVISION, BREAKER CONTROL with I/L, DISTURBANCE RECORDING, FAULT RECORDING, EVENT RECORDING, MEASUREMENT FUNCTIONS (3I, Io, 3U, Uo, Hz, P, Q, E, PF)	1	No.		
	Numerical Check synchronising Relay	1	No.		
	Check synchronising Relay Type-SKE11 or better	1	No.		
	Guard Relay	1	No.		
	BATTERY EARTH FAULT RELAY, 1-7mA, NOMINAL VOLTAGE-220V DC, 1DV, 2NO S/R, FLUSH	1	No.		
	OVERLOAD RELAY, NOMINAL VOLTAGE-220V DC, O/V VLTAGE SETTING-110%, 1/4NV, 1NO+1NC S/R	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	UNDER VOLTAGE RELAY, NOMINAL VOLTAGE-220V DC, U/V SETTING-80%, AUX.-240V AC, 1/2NH, 1NO+2NC S/R	1	No.		
	BATTERY EARTH FAULT RELAY, 1-7mA, NOMINAL VOLTAGE-48V DC, 1DV, 2NO S/R, FLUSH	1	No.		
	OVERLOAD RELAY, NOMINAL VOLTAGE-48V DC, O/V VLTAGE SETTING-110%, 1/4NV, 1NO+1NC S/R	1	No.		
	UNDER VOLTAGE RELAY, NOMINAL VOLTAGE-48V DC, U/V SETTING-80%, AUX.-240V AC, 1/2NH, 1NO+2NC S/R	1	No.		
	JAMMING RELAY	1	No.		
	ELECTRONIC TYPE JAMMING RELAY	1	No.		
	<b>l) IMC &amp; its modules for Unidirectional Drive</b>				
1.1	IMC Upto 5.5KW	1	No.		
1.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
2.1	IMC for 5.6 - 7.0KW	1	No.		
2.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
3.1	IMC for 7.1 - 13KW	1	No.		
3.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
4.1	IMC for 13.1 - 24KW	1	No.		
4.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
5.1	IMC for 24.1 - 29.9KW	1	No.		
5.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
6.1	IMC for 30.0 - 37.0KW	1	No.		
6.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
6.3	Voltage Sensing Module for above (if not Integral in IMC Module)	1	No.		
7.1	IMC for 37.1 - 55KW	1	No.		
7.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
7.3	Voltage Sensing Module for above (if not Integral in IMC Module)	1	No.		
8.1	IMC for 55.1 - 80.0KW	1	No.		
8.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
8.3	Voltage Sensing Module for above (if not Integral in IMC Module)	1	No.		
9.1	IMC for 80.1 - 89.9KW	1	No.		
9.2	Current Sensing Module for above (if not Integral in IMC Module)	1	No.		
9.3	Voltage Sensing Module for above (if not Integral in IMC Module)	1	No.		
10	Expansion Module for IMC	1	No.		
	<b>m) Timer (DC)</b>				
	ON DELAY TIMER, 0.5-5SEC., 220V DC, 2NO+2NC	1	No.		
	ON DELAY TIMER, 1.0-10SEC. 220V DC, 2NO+2NC	1	No.		
	240VAC MTR RESTART CONTROL TIMER (.2-60SECS)	1	No.		
	240VAC ON DELAY TIMER(1-10SECNS)WITH 1NO	1	No.		
	220VDC ON DELAY TIMER(.5-5SECS) WITH 1NO	1	No.		
	220VDC ON DELAY TIMER(0.5-5SECS)WITH 3NO	1	No.		
	220VDC ON DELAY TIMER(1-10SECS) WITH 3NO	1	No.		
	<b>n) Meter</b>				
	AC ammeter (Digital)	1	No.		
	AC ammeter (Analog) linear scale	1	No.		
	AC ammeter (Analog) compressed scale	1	No.		
	DC ammeter (Digital)	1	No.		
	DC ammeter (Analog)	1	No.		
	DC ammeter with shunt and center zero	1	No.		
	AC voltmeter (Digital)	1	No.		
	DC voltmeter (Analog)	1	No.		
	Wattmeter (3 Phase)	1	No.		
	Wattmeter (1 Phase)	1	No.		
	TVM meter	1	No.		
	DIGITAL ENERGY METER	1	No.		
	Frequency meter	1	No.		
	Synchroscope	1	No.		
	Differential Voltmeter	1	No.		
	Differential Frequency meter	1	No.		
	Multifunction digital Energy meter with RS485 Port (0.2 Acc. Class)	1	No.		
	Multifunction digital Energy meter with RS485 Port (0.5 Acc. Class)	1	No.		
	Multifunction digital Energy meter with RS485 Port (1.0 Acc. Class)	1	No.		
	<b>o) Single Phase Preventor Relay</b>	1	No.		
	<b>p) MCB</b>				
	6A, 4P 415V AC	1	No.		
	10A, 4P 415V AC	1	No.		
	16A, 4P 415V AC	1	No.		
	6A DP, 240V AC	1	No.		
	10A DP, 240V AC	1	No.		
	16A DP, 240V AC	1	No.		
	32A DP, 240V AC	1	No.		
	6A DP, 110V AC	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	10A DP, 110V AC	1	No.		
	16A DP, 110V AC	1	No.		
	32A DP, 110V AC	1	No.		
	6A DP, 220V DC	1	No.		
	10A DP, 220V DC	1	No.		
	16A DP, 220V DC	1	No.		
	6A SP, 240V AC	1	No.		
	10A SP, 240V AC	1	No.		
	16A SP, 240V AC	1	No.		
	32A SP, 240V AC	1	No.		
	6A SP, 110V AC	1	No.		
	10A SP, 110V AC	1	No.		
	16A SP, 110V AC	1	No.		
	32A SP, 110V AC	1	No.		
	6A SP, 220V DC	1	No.		
	10A SP, 220V DC	1	No.		
	16A SP, 220V DC	1	No.		
	<b>q) SWITCH &amp; PUSH BUTTON</b>				
	BREAKER CONTROL SWITCH, 16A,220V DC, 2CLOSE+2TRIP	1	No.		
	DC ISOLATING SWITCH 16A,220V DC, DP, BASE MTG.	1	No.		
	16A, 240V AC SELECTOR SWITCH 3WAY, 4POLE, FLUSH MTG	1	No.		
	25A, 240V AC SELECTOR SWITCH 3WAY, 4POLE, FLUSH MTG	1	No.		
	16A, 240V AC SELECTOR SWITCH 2WAY, 2POLE, FLUSH MTG	1	No.		
	NORMAL/ TRIAL SEL. SWITCH, 2POLE , 2WAY, 10A 240V AC, FLUSH MTG,	1	No.		
	MCC/ NORMAL/ TRIAL SEL. SWITCH, 2POLE ,3WAY, 10A 240V AC, FLUSH MTG	1	No.		
	SWGR/ REMOTE SEL. SWITCH 3POLE 2WAY,16A 220V DC, FLUSH MTG	1	No.		
	SWGR/ NORMAL/ TRIAL SEL. SWITCH, 3POLE, 3WAY, 16A 220V DC, FLUSH MTG.	1	No.		
	NORMAL/ TRIAL SEL. SWITCH, 2POLE , 2WAY, 10A 240V AC, FLUSH MTG, LOCKABEL TYPE	1	No.		
	MCC/ NORMAL/ TRIAL SEL. SWITCH, 2POLE ,3WAY, 10A 240V AC, FLUSH MTG, LOCKABEL TYPE	1	No.		
	SWGR/ REMOTE SEL. SWITCH 3POLE 2WAY,16A 220V DC, FLUSH MTG.LOCKABLE TYPE	1	No.		
	SWGR/ NORMAL/ TRIAL SEL. SWITCH, 3POLE, 3WAY, 16A 220V DC, FLUSH MTG., LOCKABLE TYPE	1	No.		
	AMMETER SELECTOR SWITCH	1	No.		
	VOLTMETER SELECTOR SWITCH	1	No.		
	TOGGLE SWITCH 5A, 240V AC	1	No.		
	AC SWITCH SPST-5A,240V AC	1	No.		
	10A, 220V DC SWITCH	1	No.		
	Door Limit switch	1	No.		
	Ammeter selector switch	1	No.		
	Voltmeter selector switch	1	No.		
	Synchronisation selector switch	1	No.		
	Trip selector switch	1	No.		
	Push Button	1	No.		
	2NO + 2NC Shrouded	1	No.		
	1NO + 1NC Shrouded	1	No.		
	2NO + 2NC Mushroom head stayput	1	No.		
	2NO + 2NC Lockable type	1	No.		
	<b>r) Indicating Lamp Assembly (LED Type)</b>				
	240V AC-GREEN	1	No.		
	240V AC-RED	1	No.		
	240V AC- AMBER	1	No.		
	110V AC-GREEN	1	No.		
	110V AC-RED	1	No.		
	110V AC- AMBER	1	No.		
	220V DC-WHITE	1	No.		
	220V DC-RED	1	No.		
	220V DC-GREEN	1	No.		
	220V DC-BLUE	1	No.		
	220V DC- AMBER	1	No.		
	63.5V AC-RED	1	No.		
	63.5V AC-YELLOW	1	No.		
	63.5V AC-BLUE	1	No.		
	<b>s) CT</b>				
	<b>i) Metering CT</b>				
	Upto 75/1A	1	No.		
	100/1A	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	125/1A	1	No.		
	150/1A	1	No.		
	200/1A	1	No.		
	250/1A	1	No.		
	300/1A	1	No.		
	400/1A	1	No.		
	500/1A	1	No.		
	630/1A	1	No.		
	800/1A	1	No.		
	1000/1A	1	No.		
	1250/1A	1	No.		
	1600/1A	1	No.		
	2000/1A	1	No.		
	2500/1A	1	No.		
	3000/1A	1	No.		
	4000/1A	1	No.		
ii)	Protection CT (5P20)				
	Upto 75/1A	1	No.		
	100/1A	1	No.		
	125/1A	1	No.		
	150/1A	1	No.		
	200/1A	1	No.		
	250/1A	1	No.		
	300/1A	1	No.		
	400/1A	1	No.		
	500/1A	1	No.		
	630/1A	1	No.		
	800/1A	1	No.		
	1000/1A	1	No.		
	1250/1A	1	No.		
	1600/1A	1	No.		
	2000/1A	1	No.		
	2500/1A	1	No.		
	3000/1A	1	No.		
	4000/1A	1	No.		
	630/5A	1	No.		
	800/5A	1	No.		
	1000/5A	1	No.		
	1250/5A	1	No.		
	1600/5A	1	No.		
	2000/5A	1	No.		
	2500/5A	1	No.		
	3000/5A	1	No.		
	4000/5A	1	No.		
iii)	PS Class CT				
	1000/1A	1	No.		
	1600/1A	1	No.		
	2000/1A	1	No.		
	2500/1A	1	No.		
	3000/1A	1	No.		
	4000/1A	1	No.		
	1000/5A	1	No.		
	1600/5A	1	No.		
	2000/5A	1	No.		
	2500/5A	1	No.		
	3000/5A	1	No.		
	4000/5A	1	No.		
t)	<b>Voltage Transformer</b>				
	415/√3 : 110/√3 V, 50VA	1	No.		
	415/√3 : 110/√3 V, 100VA	1	No.		
	415/√3 : 240/√3 V, 50VA	1	No.		
	415/√3 : 240/√3 V, 100VA	1	No.		
	415 : 110V, 50VA	1	No.		
	415 : 110V, 100VA	1	No.		
	415 : 240V, 50VA	1	No.		
	415 : 240V, 100VA	1	No.		
u)	<b>Toggle switch (16A)</b>	1	No.		
v)	<b>Secondary Isolating Contact Block</b>	1	No.		
w)	<b>Control Terminal (Fixed)</b>	1	No.		
x)	<b>Control Terminal (Drawout)</b>	1	No.		
y)	<b>Thermostat, Dial type</b>	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	<b>z) CONTROL TRANSFORMER</b>				
	415/240V,CL-B, 1 KVA	1	No.		
	415/240V,CL-B, 2KVA	1	No.		
	415/240V,CL-B, 2.5KVA	1	No.		
	415/240V,CL-B, 3KVA	1	No.		
	415/240V,CL-B, 5KVA	1	No.		
	415/240V,CL-B, 7.5KVA	1	No.		
	415/240V,CL-B, 10KVA	1	No.		
	415/110V,CL-B, 1 KVA	1	No.		
	415/110V,CL-B, 2KVA	1	No.		
	415/110V,CL-B, 2.5KVA	1	No.		
	415/110V,CL-B, 3KVA	1	No.		
	415/110V,CL-B, 5KVA	1	No.		
	415/110V,CL-B, 7.5KVA	1	No.		
	415/110V,CL-B, 10KVA	1	No.		
	<b>aa) 415/110V,CL-B, 10KVA</b>				
	4-20mA Dual o/p, Aux sup 220V DC, 1A, Current Transducer	1	No.		
	4-20mA Dual o/p, Aux sup 240V AC, 1A, Current Transducer	1	No.		
	4-20mA Dual o/p, Aux sup 110V AC, 1A, Current Transducer	1	No.		
	4-20mA Dual o/p, Aux sup 220V DC, VoltageTransducer, PTR 415/110V	1	No.		
	4-20mA Dual o/p, Aux sup 240V AC, VoltageTransducer, PTR 415/110V	1	No.		
	4-20mA Dual o/p, Aux sup 110V AC, VoltageTransducer, PTR 415/110V	1	No.		
	4-20mA Dual o/p, Aux sup 220V DC, FrequencyTransducer, PTR 415/110V	1	No.		
	4-20mA Dual o/p, Aux sup 220V DC, Input 0-75mV DC, Current Transducer-DC	1	No.		
	4-20mA Dual o/p, Aux sup 240V AC, Input Voltage 0-220V DC, Voltage Transducer-DC	1	No.		
	4-20mA Dual Output kW transducer	1	No.		
	4-20mA Dual Output kVA transducer	1	No.		
	4-20mA Dual Output PF transducer	1	No.		
	4-20mA Dual Output Frequency transducer	1	No.		
	<b>ab) Interposing relay RE 302 or Eqvt with freewheeling diode &amp; LED</b>	1	No.		
	<b>ac) 3 PIN SOCKET - 5A, 110V AC, 3PIN</b>	1	No.		
	<b>ad) SPACE HEATER</b>	1	No.		
	<b>ae) NEUTRAL LINK WITH MOUNTING ASSEMBLY</b>				
	20A FOR CONTROL CKT. & POWER CKT. UPTO 25A MCCB RATING	1	No.		
	32A FOR 50A MCCB RATING	1	No.		
	63A FOR 100A & 125A MCCB RATING	1	No.		
	125A FOR 250A MCCB RATING	1	No.		
	250A FOR 400A & 500A MCCB RATING	1	No.		
	<b>af) CASTLE KEY INTERLOCK FOR MCCB - 3LOCK+2KEY</b>	1	No.		
	<b>ag) MECHANICAL INTERLOCK FOR POWER CONTACTOR</b>				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	115A	1	No.		
	150A	1	No.		
	185A	1	No.		
	265A	1	No.		
	315A	1	No.		
	400A	1	No.		
	<b>ah) ADDON BLOCK FOR CONTACTOR</b>				
	2NO+2NC	1	No.		
	3NO+1NC	1	No.		
	1NO + 1NC	1	No.		
	1NO	1	No.		
	1NC	1	No.		
	<b>ai) ISOLATING TRANSFORMER</b>				
	ISOLATING TRANSFORMER-15kVA	1	No.		
	ISOLATING TRANSFORMER-20kVA	1	No.		
	ISOLATING TRANSFORMER-25kVA	1	No.		
	ISOLATING TRANSFORMER-30kVA	1	No.		
	<b>aj) ISOLATOR WITH HANDLE</b>				
	16A	1	No.		
	32A	1	No.		
<b>29</b>	<b>Foundation Frame</b>				

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
a)	MCC panel				
	upto 1600A (SF)	1	No.		
	2500A (SF)	1	No.		
	3000A (SF)	1	No.		
	4000A (SF)	1	No.		
	upto 1600A (DF)	1	No.		
	2500A (DF)	1	No.		
	3000A (DF)	1	No.		
	4000A (DF)	1	No.		
b)	220V DCDB panel				
	SF	1	No.		
	DF	1	No.		
c)	PCC / PMCC panel				
	upto 1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
<b>30</b>	<b>Connection from PMCC/MCC panel to PMCC/MCC panel</b>				
	250A	1	No.		
	400A	1	No.		
	630A	1	No.		
	800A	1	No.		
	1000A	1	No.		
	1200A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
<b>31</b>	<b>Cable Glands &amp; Lugs:</b>				
a)	<b>Single Compression Cable Glands for cable sizes:</b>				
	2C X 2.5 Sq. mm.	1	No.		
	3C X 2.5 Sq. mm.	1	No.		
	5C X 2.5 Sq. mm.	1	No.		
	7C X 2.5 Sq. mm.	1	No.		
	10C X 2.5 Sq. mm.	1	No.		
	14C X 2.5 Sq. mm.	1	No.		
	2C X 10 Sq. mm.	1	No.		
	2C X 16 Sq. mm.	1	No.		
	2C X 25 Sq. mm.	1	No.		
	2C X 35 Sq. mm.	1	No.		
	2C X 50 Sq. mm.	1	No.		
	2C X 70 Sq. mm.	1	No.		
	2C X 95 Sq. mm.	1	No.		
	3C X 2.5 Sq. mm.	1	No.		
	3C X 10 Sq. mm.	1	No.		
	3C X 16 Sq. mm.	1	No.		
	3C X 25 Sq. mm.	1	No.		
	3C X 35 Sq. mm.	1	No.		
	3C X 50 Sq. mm.	1	No.		
	3C X 70 Sq. mm.	1	No.		
	3C X 95 Sq. mm.	1	No.		
	3C X 150 Sq. mm.	1	No.		
	3C X 240 Sq. mm.	1	No.		
	3C X 300 Sq. mm.	1	No.		
	3.5C X 25 Sq. mm.	1	No.		
	3.5C X 50 Sq. mm.	1	No.		
	3.5C X 70 Sq. mm.	1	No.		
	3.5C X 95 Sq. mm.	1	No.		
	3.5C X 240 Sq. mm.	1	No.		
	3.5C X 300 Sq. mm.	1	No.		
	4C X 16 Sq. mm.	1	No.		
	4C X 35 Sq. mm.	1	No.		
	1C X 300 Sq. mm.	1	No.		
	1C X 630 Sq. mm.	1	No.		
b)	<b>Double Compression Cable Glands for cable sizes:</b>				
	2C X 2.5 Sq. mm.	1	No.		
	3C X 2.5 Sq. mm.	1	No.		
	5C X 2.5 Sq. mm.	1	No.		
	7C X 2.5 Sq. mm.	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	12C X 2.5 Sq. mm.	1	No.		
	16C X 2.5 Sq. mm.	1	No.		
	2C X 10 Sq. mm.	1	No.		
	2C X 16 Sq. mm.	1	No.		
	2C X 25 Sq. mm.	1	No.		
	2C X 35 Sq. mm.	1	No.		
	2C X 50 Sq. mm.	1	No.		
	2C X 70 Sq. mm.	1	No.		
	2C X 95 Sq. mm.	1	No.		
	3C X 2.5 Sq. mm.	1	No.		
	3C X 10 Sq. mm.	1	No.		
	3C X 16 Sq. mm.	1	No.		
	3C X 25 Sq. mm.	1	No.		
	3C X 35 Sq. mm.	1	No.		
	3C X 50 Sq. mm.	1	No.		
	3C X 70 Sq. mm.	1	No.		
	3C X 95 Sq. mm.	1	No.		
	3C X 150 Sq. mm.	1	No.		
	3C X 240 Sq. mm.	1	No.		
	3C X 300 Sq. mm.	1	No.		
	3.5C X 25 Sq. mm.	1	No.		
	3.5C X 50 Sq. mm.	1	No.		
	3.5C X 70 Sq. mm.	1	No.		
	3.5C X 95 Sq. mm.	1	No.		
	3.5C X 240 Sq. mm.	1	No.		
	3.5C X 300 Sq. mm.	1	No.		
	4C X 16 Sq. mm.	1	No.		
	4C X 35 Sq. mm.	1	No.		
	1C X 300 Sq. mm.	1	No.		
	1C X 630 Sq. mm.	1	No.		
	<b>c) Cable Lugs for sizes:</b>				
	1.5 Sq. mm.	1	No.		
	2.5 Sq. mm.	1	No.		
	10 Sq. mm.	1	No.		
	16 Sq. mm.	1	No.		
	25 Sq. mm.	1	No.		
	35 Sq. mm.	1	No.		
	50 Sq. mm.	1	No.		
	70 Sq. mm.	1	No.		
	95 Sq. mm.	1	No.		
	120 Sq. mm.	1	No.		
	150 Sq. mm.	1	No.		
	185 Sq. mm.	1	No.		
	240 Sq. mm.	1	No.		
	300 Sq. mm.	1	No.		
	630 Sq. mm.	1	No.		
<b>32.1</b>	<b>Thermal O/L relay with SPP - OLR</b>				
	Upto 5.5KW	1	No.		
	5.6 to 7.0KW	1	No.		
	7.1 to 13KW	1	No.		
	13.1 to 24KW	1	No.		
	24.1 to 29.9KW	1	No.		
	30.0 to 37.0KW	1	No.		
	37.1 to 55.0KW	1	No.		
	55.1 to 80.0KW	1	No.		
	80.1 to 89.9KW	1	No.		
<b>32.2</b>	<b>Heavy Duty Thermal O/L relay with SPP - OLR</b>				
	Upto 5.5KW	1	No.		
	5.6 to 7.0KW	1	No.		
	7.1 to 13KW	1	No.		
	13.1 to 24KW	1	No.		
	24.1 to 29.9KW	1	No.		
	30.0 to 37.0KW	1	No.		
	37.1 to 55.0KW	1	No.		
	55.1 to 80.0KW	1	No.		
	80.1 to 89.9KW	1	No.		
<b>33</b>	<b>Daily 8 hour rate deployed at site:</b>				
	Engineer : (per day)	1	No.		
<b>34</b>	<b>Module Name plate</b>	1	No.		
<b>35</b>	<b>Wires for Secondary wiring:</b>				
a)	1.5 Sq. mm. per meter	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	b) 2.5 Sq. mm. per meter	1	No.		
	c) 4.0 Sq. mm. per meter	1	No.		
<b>36</b>	<b>Control Terminal for Secondary wiring suitable for cable size:</b>				
	1) 0.5 Sq. mm.	1	No.		
	2) 1.5 Sq. mm.	1	No.		
	3) 2.5 Sq. mm.	1	No.		
<b>37</b>	<b>Electrical Junction Boxes (for termination of 0.5 sqmm screened control cables)</b>				
	a) 48 ways	1	No.		
	b) 64 ways	1	No.		
	c) 72 ways	1	No.		
	a) 96 ways	1	No.		
<b>38</b>	<b>ISMC channels</b>				
	a) ISMC 75 channel per meter	1	No.		
	b) ISMC 100 channel per meter	1	No.		
<b>39</b>	<b>Temperature Sensor for WIRELESS TEMPERATURE MONITORING SENSOR</b>	1	No.		
<b>40</b>	<b>Wireless Transmitter for WIRELESS TEMPERATURE MONITORING SENSOR</b>	1	No.		
<b>41</b>	<b>Wireless Receiver for WIRELESS TEMPERATURE MONITORING SENSOR</b>	1	No.		
<b>42</b>	<b>Additional components (except networking hardware mentioned in Annexure B3) required for completeness of WIRELESS TEMPERATURE MONITORING SENSOR</b>	1	No.		
<b>43</b>	<b>DP MCCB, ADJ. SC &amp; O/L Release:</b>				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		
	160A	1	No.		
	200A	1	No.		
<b>44</b>	<b>TP MCCB motor duty type with S/C release:</b>				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		
	160A	1	No.		
	200A	1	No.		
	250A	1	No.		
	400A	1	No.		
<b>45</b>	<b>TP MCCB ADJ S/C , O/L, E/F release:</b>				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	100A	1	No.		
	125A	1	No.		
	160A	1	No.		
	200A	1	No.		
	250A	1	No.		
	400A	1	No.		
<b>46</b>	<b>DC MCCB</b>				
	16A	1	No.		
	25A	1	No.		
	32A	1	No.		
	63A	1	No.		
	80A	1	No.		
	115A	1	No.		
	150A	1	No.		
	185A	1	No.		
	265A	1	No.		
	315A	1	No.		
	400A	1	No.		
<b>47</b>	<b>SWITCH FUSE UNIT (DC) - DP along with fuse, link etc complete (suitable for 40kA fault current)</b>				
	16A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		

**ANNEXURE-H**  
**MODULE UNIT PRICE**

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	200A	1	No.		
	250A	1	No.		
	300A	1	No.		
	400A	1	No.		
	600A	1	No.		
	800A	1	No.		
<b>48</b>	<b>SWITCH FUSE UNIT (AC) - TP along with fuse, link etc complete</b>				
	16A	1	No.		
	32A	1	No.		
	63A	1	No.		
	100A	1	No.		
	125A	1	No.		
	200A	1	No.		
	250A	1	No.		
	300A	1	No.		
	400A	1	No.		
	600A	1	No.		
	800A	1	No.		
<b>49</b>	<b>OLM, Profibus DP connector along with accessories (at Y-link end) for interface of Y-Link with DDCMIS.</b>	1	No.		
<b>50</b>	<b>SP ON/ OFF SWITCH FOR MOTOR SPACE HEATER OF BREAKER MOTOR FDR, 10A, 240V AC</b>	1	No.		
<b>51</b>	<b>4 POLE, 2 POSI., SELECTOR SWITCH FOR CONTROL TRF., 110V AC</b>	1	No.		
<b>52</b>	<b>EXTENDED ROTORY HANDLE</b>	1	No.		
<b>53</b>	<b>AUXILIARY CONTACT FOR MCCB 1C/O</b>	1	No.		
<b>54</b>	<b>TRIP CONTACT FOR MCCB 1C/O</b>	1	No.		
<b>55</b>	<b>CONTROL TERMINALS (DRAWOUT)</b>	1	No.		
<b>56</b>	<b>3 PIN INDUSTRIAL SOCKET &amp; PLUG</b>	1	No.		
<b>57</b>	<b>ROTARY ON/OFF SWITCH</b>	1	No.		
<b>58</b>	<b>TIMER WITH 2C/O</b>	1	No.		
<b>59</b>	<b>CONTROL TRANSFORMER, DRY TYPE, CAST RESIN, 415/24V, INS. CL-B OR BETTER</b>	1	No.		
<b>60</b>	<b>RECTIFIER</b>	1	No.		
<b>61</b>	<b>LIMIT SWITCH (BREAKER)</b>	1	No.		
<b>62</b>	<b>Ethernet Switch with 16 Copper Ports &amp; 4 FO ports</b>	1	No.		
<b>63</b>	<b>Ethernet Switch with 08 Copper Ports &amp; 4 FO ports</b>	1	No.		
<b>64</b>	<b>Cat5e/ Cat6 Ethernet Cable</b>	1	No.		
<b>65</b>	<b>Fibre Optic Patch Cord (minimum length - 10metres)</b>	1	No.		
<b>66</b>	<b>9 WINDOWS ALARM ANNUNCIATION -1</b>	1	No.		
<b>67</b>	<b>ELECTRONIC HOOTER (96SQMM)</b>	1	No.		
<b>68</b>	<b>Class 0.2s accuracy energy meters suitable for ABT requirement (Specification in Annexure-I)</b>	1	No.		
<b>69</b>					
<b>70</b>					
<b>71</b>					
<b>72</b>					
<b>73</b>					
<b>74</b>					
<b>75</b>					
<b>76</b>					
<b>77</b>					
<b>NOTE:</b>	<b>The bidder should list the unit price for any additional modules, components, or items that are not mentioned in the above specifications but may be necessary to fulfill the customer's requirements.</b>				

**ANNEXURE - II**

**SCHEDULE OF TECHNICAL AND COMMERCIAL DEVIATION**

**PROJECT:- 2X800 MW NTPC SINGRAULI STPP STAGE – III**

**PACKAGE:-LT SWITCHGEAR**

**TENDER REF NO - 77/26/6027/SHA, dated 02-05-2026**

**NAME OF VENDOR:-**

SL NO	VOULME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWL OF DEVIATION	REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWL OF DEVIATION IS	NATURE OF COST OF WITHDRAWL OF DEVIATION (POSITIVE/ NEGATIVE)	REASON FOR QUOTING DEVIATION
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**TECHNICAL DEVIATIONS**


**COMMERCIAL DEVIATIONS**


**PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE**

NAME	DESIGNATIONS	SIGN & DATE
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**NOTES:**

1. Cost of withdrawl of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawl of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In the absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.
5. Bidder shall furnish price copy of above format along with price bid.
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.

7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII, will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be considered.
10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
11. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
12. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.