

1 X 800 MW NTPC SIPAT STPP Stage-III
ANNEXURE-B - BOQ-CUM-PRICE SCHEDULE FOR LT SWITCHGEAR
Enquiry No. 77/26/6091/NIT, Dt:- 31/07/2026

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 % W.R.T TOTAL EX-WORKS (%)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EX-WORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL F.O.R SITE PRICE (Rs.)	NO. OF PCC / ACB PANEL	NO. OF MCC / ACDB / DCDB PANEL	BOARD NAME PLATE, DESCRIPTION & RATING
A	SWITCHBOARD															
1	506-0110315-00-A	UNIT EMERGENCY SWBD	NOS.	1	3000	6DG	-	-	-	-	-	-	-			U#6 EMERGENCY MCC 6DG, 3000A
2	506-0110039-00-A	220V MAIN DCDB	NOS.	1	1600	6FA	-	-	-	-	-	-	-			U#6 220V MAIN DCDB 6FA, 1600A
3	506-0110381-00-A	UNIT BOILER PMCC	NOS.	1	4000	6DA	-	-	-	-	-	-	-			U#6 BOILER SERVICE PMCC 6DA, 4000A
4	506-0110106-00-A	BOILER V&D ACDB	NOS.	1	250	6HA	-	-	-	-	-	-	-			U#6 BOILER VALVE & DAMPER ACDB 6HA, 250A
5	506-0110091-00-A	BOILER ACDB	NOS.	1	630	6HB	-	-	-	-	-	-	-			U#6 BOILER ACDB 6HB, 630A
6	506-0110419-00-A	SOOT BLOWER MCC-1	NOS.	1	63		-	-	-	-	-	-	-			U#6 SOOT BLOWER MCC, 63A
7	506-0110386-00-A	UNIT TURBINE PMCC	NOS.	1	4000	6DB	-	-	-	-	-	-	-			U#6 TURBINE SERVICE PMCC 6DB, 4000A
8	506-0110320-00-A	UNIT SERVICE ACDB	NOS.	1	630	6QA	-	-	-	-	-	-	-			U#6 UNIT SERVICE ACDB 6QA, 630A
9	506-0110299-00-A	TURBINE VALVE ACDB	NOS.	1	250	6KA	-	-	-	-	-	-	-			U#6 TURBINE VALVE DB 6KA, 250A
10	506-0110179-00-A	ESP SWBD	NOS.	6	3000	6DC,6DD, 6DE, 6DF, 6DH,6DJ	-	-	-	-	-	-	-			U#6 ESP PMCC's, 3000A
11	506-0110973-00-A	ESP STANDBY PMCC 1	NOS.	1	4000	6DK	-	-	-	-	-	-	-			U#6 ESP STANDBY PMCC 6DK, 4000A
12	506-0110974-00-A	ESP STANDBY PMCC 2	NOS.	1	4000	6DL	-	-	-	-	-	-	-			U#6 ESP STANDBY PMCC 6DL, 4000A
13	506-0110169-00-A	ESP A/C & VENT MCC	NOS.	1	400	6TB	-	-	-	-	-	-	-			U#6 ESP HVAC MCC 6TB, 400A
14	506-0110164-00-A	ESP & ID FAN AREA MCC	NOS.	1	400	6HC	-	-	-	-	-	-	-			U#6 ESP & ID FAN AREA MCC 6HC, 400A
15	506-0110263-00-A	STATION SERVICE SWBD.	NOS.	1	4000	0DA	-	-	-	-	-	-	-			U#6 STATION SERVICE PMCC 0DA, 4000A
16	506-0110077-00-A	AIR CONDITIONING MCC	NOS.	1	1250	0TA	-	-	-	-	-	-	-			U#6 AIR CONDITIONING MCC 0TA, 1250A
17	506-0110330-00-A	VENTILATION MCC	NOS.	1	630	6TA	-	-	-	-	-	-	-			U#6 VENTILATION MCC 6TA, 630A
18	506-0110241-00-A	MISC. SERVICE MCC-1	NOS.	1	630	0QA	-	-	-	-	-	-	-			U#6 MISC. SERVICES MCC-1 0QA, 630A
19	506-0110242-00-A	MISC. SERVICE MCC-2	NOS.	1	630	0QB	-	-	-	-	-	-	-			U#6 MISC. SERVICES MCC-2 0QB, 630A
20	506-0110078-00-A	AIR WASHER MCC	NOS.	1	800	6SA	-	-	-	-	-	-	-			U#6 AIR WASHER MCC 6SA, 800A
21	506-0110983-00-A	OUTDOOR SWGR # 1	NOS.	1	400		-	-	-	-	-	-	-			U#6 TRF AREA OUTDOOR SWGR, 400A
22	506-0110138-00-A	COOLING TOWER SWBD.-1	NOS.	1	3000	6DN	-	-	-	-	-	-	-			U#6 & IDCT PMCC's, 3000A
23	506-0110139-00-A	COOLING TOWER SWBD.-2	NOS.	1	3000	6DM	-	-	-	-	-	-	-			U#6 & IDCT PMCC's, 3000A
24	506-0110140-00-A	COOLING TOWER SWBD.-3	NOS.	1	3000	6DQ	-	-	-	-	-	-	-			U#6 & IDCT PMCC's, 3000A
25	506-0110141-00-A	COOLING TOWER SWBD.-4	NOS.	1	3000	6DS	-	-	-	-	-	-	-			U#6 & IDCT PMCC's, 3000A
26	506-0110190-00-A	FUEL OIL P/H SWBD.	NOS.	1	1000	0DH	-	-	-	-	-	-	-			FOPH PMCC 0DH, 1000A
27	506-0110044-00-A	220V OFFSITE DCDB	NOS.	1	125	0FA	-	-	-	-	-	-	-			FOPH DCDB 0FA
28	506-0110986-00-A	DC MCCB BOX	NOS.	15	63		-	-	-	-	-	-	-			
29	506-0110985-00-A	AC MCCB BOX	NOS.	50	63		-	-	-	-	-	-	-			
B	HMI SYSTEM															
1	506-0110417-00-A	HMI (EWS)	NOS.	2			-	-	-	-	-	-	-			
2	506-0111038-00-A	CONSOLE FOR HMI	NOS.	2			-	-	-	-	-	-	-			REFER NOTE- B.2 & B.3
3	506-0111039-00-A	LASER PRINTER (A4 SIZE)	NOS.	2			-	-	-	-	-	-	-			
4	506-0111040-00-A	TABLE FOR PRINTER	NOS.	2			-	-	-	-	-	-	-			REFER NOTE- B.3
B1	NUMERICAL RELAY,IMCC AND WIRELESS TEMP MONITORING SYSTEM-NETWORKING HARDWARE															
1		ETHERNET SWITCH WITH IEC-61850 PROTOCOL														IT SHALL BE PART OF SWITCHBOARD
2	506-0111041-00-A	NETWORK LEVEL ETHERNET SWITCH (OF ADEQUATE PORTS)	NOS.	2				-		-	-	-	-			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	506-0111042-00-A	CAT5e/CAT6 OR BETTER ETHERNET CABLE	METERS	3500				-		-	-	-	-			
4	506-0111043-00-A	SIMPLEX FIBER OPTICAL CABLE FOR COMMUNICATION BETWEEN SWGR LEVEL ETHERNET SWITCH's (& THEIR RINGS) & NETWORK LEVEL ETHERNET SWITCH	METERS	25000				-		-	-	-	-			
5	506-0111044-00-A	SIMPLEX FIBER OPTICAL CABLE PATCH CORD WITH CONNECTORS AT BOTH ENDS OF MINIMUM LENGTH 10 METERS	NOS	30				-		-	-	-	-			
6	506-0111045-00-A	HDPE CONDUIT (RODENT FREE)	METERS	25000				-		-	-	-	-			USED FOR FIBER OPTICAL CABLE AT S.NO B1- 4
7	506-0111046-00-A	FO TERMINATION ACCESSORIES AT BIDDER'S SUPPLIED EQUIPMENT END UNDER THIS PACKAGE	NOS.	1				-		-	-	-	-			ANNEXURE-1. TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE FOR SCOPE AND TERMINAL POINT

1 X 800 MW NTPC SIPAT STPP Stage-III
ANNEXURE-B - BOQ-CUM-PRICE SCHEDULE FOR LT SWITCHGEAR
Enquiry No. 77/26/6091/NIT, Dt:- 31/07/2026

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 % W.R.T TOTAL EX-WORKS (%)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EX-WORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL F.O.R SITE PRICE (Rs.)	NO. OF PCC / ACB PANEL	NO. OF MCC / ACDB / DCDB PANEL	BOARD NAME PLATE, DESCRIPTION & RATING
8	506-0111047-00-A	LAPTOP PC WITH LICENCED VERSION SOFTWARE, HARDWARE FOR RELAY, IMC PARAMETERISATION	NOS.	2				-		-	-	-	-			
9	506-0111048-00-A	INTERFACE CABLE WITH SUITABLE CONNECTING PORT AT BOTH END FOR CONNECTION OF NUMERICAL RELAY FRONT PORT TO THE LAPTOP	NOS.	20				-		-	-	-	-			EACH CABLE OF LENGTH AT LEAST 5M
10	506-0111049-00-A	INTERFACE CABLE WITH SUITABLE CONNECTING PORT AT BOTH END FOR CONNECTION OF IMCC FRONT PORT TO THE LAPTOP	NOS.	15				-		-	-	-	-			EACH CABLE OF LENGTH AT LEAST 5M
B2	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															
1	506-0111050-00-A	1 st year	YEAR	1				-	0.00	-	-	-	-			
2	506-0111051-00-A	2 nd year	YEAR	1				-	0.00	-	-	-	-			
3	506-0111052-00-A	3 rd year	YEAR	1				-	0.00	-	-	-	-			
B3	NETWORKING HARDWARE FOR WIRELESS TEMPERATURE MONITORING SENSOR															
1	506-0111053-00-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 SET OF SWITCHBOARDS- SET- 6DA, 6DB & 6DG	NOS.	1				-		-	-	-	-			INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET CONSISTS OF 3 SWITCHBOARDS
2	506-0111054-00-A	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 SET OF SWITCHBOARDS - SET- 6DA, 6DB & 6DG	NOS.	1				-		-	-	-	-			INCLUDING COMPLETE DESIGN, ENGINEERING AND SUPPLY. 1 SET CONSISTS OF 3 SWITCHBOARDS
C	TOOLS & TACKLE															
1	506-0111055-00-A	ACB RACKING HANDLE	NOS.	15				-		-	-	-	-			
2	506-0110283-00-A	TELESCOPIC TROLLEY (TROLLEY FOR ACB HANDLING)	NOS.	10				-		-	-	-	-			
3	506-0111056-00-A	DOOR KEY	NOS.	50				-		-	-	-	-			
4	506-0111057-00-A	RELAY TEST EQUIPMENT	NOS.	1				-		-	-	-	-			
5	506-0111058-00-A	MODULE RACKING HANDLE	NOS.	15				-		-	-	-	-			
D	SITE MODIFICATION															
1	506-0111059-00-A	LUMP SUM ALL INCLUSIVE CHARGES PER VISIT FOR SKILLED TECHNICIAN (EXCEPT DAILY CHARGES)	VISITS	10				-	0.00	-	-	-	-			
2	506-0111060-00-A	LUMP SUM ALL INCLUSIVE DAILY CHARGES FOR SKILLED TECHNICIAN	DAYS	45				-	0.00	-	-	-	-			
3	506-0111061-00-A	LUMP SUM ALL INCLUSIVE CHARGES PER VISIT FOR SERVICE ENGINEER (EXCEPT DAILY CHARGES)	VISITS	10				-	0.00	-	-	-	-			

Enquiry No. 77/26/6091/NIT, Dt:- 31/07/2026

Enquiry No. 77/26/6091/NIT, Dt:- 31/07/2026

S.No.	ITEM NO.	ITEM NAME	UOM	TOTAL QTY.	RATING (A)	BOARD NO.	UNIT PRICE (EX-WORKS) Rs.	TOTAL PRICE (EX-WORKS) Rs.	FREIGHT % W.R.T TOTAL EX-WORKS (%)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EX-WORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL F.O.R SITE PRICE (Rs.)	NO. OF PCC / ACB PANEL	NO. OF MCC / ACDB / DCDB PANEL	BOARD NAME PLATE, DESCRIPTION & RATING
4	506-0111062-00-A	LUMP SUM ALL INCLUSIVE DAILY CHARGES FOR SERVICE ENGINEER	DAYS	45				-	0.00	-	-	-	-			
5	506-0111063-00-A	SITE MODIFICATION MATERIAL @ 1% OF TOTAL BOARD COST (i.e. SUMMATION OF S.NO. 1 TO S.NO. 26 OF BOQ CUM PRICE SCHEDULE)	SET	1				-	0.00	-	-	-	-			
E		NUMERICAL RELAY,IMCC AND WIRELESS TEMP MONITORING SYSTEM-COMMISSIONING	SET	1				-	0.00	-	-	-	-			AS PER ANNEXURE-E
F		E&C SPARES	SET	1				-		-	-	-	-			AS PER ANNEXURE-F
	GRAND TOTAL (Evaluation Price shall be Ex-works + Freight)							-		-	-	-	-			

A.1	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-520-506-E002) RESPECTIVELY.
A.2	BIDDER HAS TO QUOTE FOR THE FOLLOWING ALONG WITH THE BID:
i	HMI SYSTEM: AS PER SR. NO. B ABOVE.
ii	NETWORKING HARDWARE FOR NUMERICAL RELAYS, IMC AS PER SR. NO.-B1 & FOR WIRELESS TEMPERATURE MONITORING SYSTEM AS PER SR. NO.B3 ABOVE,
iii	AMC FOR NUMERICAL RELAYS AS PER SR. NO. B2 ABOVE.
iv	NUMERICAL RELAY, IMCC, WIRELESS TEMPERATURE MONITORING & HMI SYSTEM COMMISSIONING: AS PER ANNEXURE-E
v	TOOLS & TACKLES: AS PER SR. NO. C ABOVE.
vi	SITE MODIFICATION CHARGES: AS PER SR. NO. D (1 TO 5) ABOVE.
vii	E & C SPARES: AS PER ANNEXURE-F
viii	BIDDER TO PROVIDE A SCHEDULE OF UNIT PRICES IN ACCORDANCE WITH THE LIST PROVIDED IN ANNEXURE-H
A.3	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.
A.4	ADDITION/ DELETION OF QUANTITIES SHALL BE APPLICABLE AT THE QUOTED PRICES. ALLOWABLE VARIATION IN QUANTITY AND PRICE SHALL BE AS PER UNIT.
A.5	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.
A.6	BIDDER IS REQUIRED TO PROVIDE THE QUANTITY OF PANELS CORRESPONDING TO EACH BOARD IN THE TABLE ABOVE WHEN SUBMITTING THEIR TECHNO-COMMERCIAL PROPOSAL.
A.7	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-520-506-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 PRICE.
A.8	NO ADDITIONAL PRICES SHALL BE PAID FOR PROTOTYPE PANELS, PRICES QUOTED ABOVE INCLUDES COST OF PROTOTYPE PANELS ALSO.
A.9	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
A.10	IN UNIT ADDITION-DELETION PRICES (ANNEXURE-H), PRICES QUOTED FOR COMPONENTS SHALL BE REASONABLE AND AS PER LIST PRICE OF CONCERNED MANUFACTURERS.
B.1	REFER ANNEXURE-1_TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE.
B.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.
B.3	MAKE AND COLOR SHADE OF FURNITURE SHALL BE DECIDED DURING DETAIL ENGINEERING. FURNITURE COLOR SHADE SHOULD MATCH WITH CONTROL ROOM FURNITURE.
B.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.
B.5	FOR TESTING AND ERECTION & COMMISSIONING CHARGES FOR HMI- ITEMS, KINDLY REFER S.No.4 OF ANNEXURE-E
B1.1	REFER ANNEXURE- 3_TENTATIVE SWITCHBOARD LOCATION DETAIL FOR DISTANCE BETWEEN SWITCHGEAR AND NETWORK LEVEL ETHERNET SWITCH IN MAIN CONTROL ROOM.
B1.2	REFER ANNEXURE- 1_TYPICAL SWITCHGEAR RELAY NETWORK ARCHITECTURE FOR HMI REQUIREMENT.
B1.3	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.
B2.1	THE COMMENCEMENT DATE FOR AMC WILL BE FROM THE DATE OF TAKEOVER BY THE END CUSTOMER. HOWEVER, TENTATIVE DATE OF AMC COMMENCEMENT SHALL BE 20.12.2028.
B3.1	REFER ANNEXURE- 3_TENTATIVE SWITCHBOARD LOCATION DETAIL FOR DISTANCE BETWEEN SWITCHGEAR AND MAIN CONTROL ROOM.
B3.2	FOR ABOVE ITEMS LISTED AT S.NO. B3 (1) AND .B3 (2), BMCC(6DA), TMCC (6DB) and EMCC(6DG) OF ONE UNIT IS CONSIDERED AS 1 SET
C.1	BIDDER HAS TO QUOTE FOR TOOLS AND TACKLES MENTIONED ABOVE. HOWEVER, BIDDER HAS TO INDICATE ANY SPECIAL TOOLS (IF REQUIRED).
D.1	MODIFICATION OF EXISTING RAW WATER SWITCHBOARD IS ALSO ENVISAGED IN THE SCOPE. THE PAYMENT SHALL BE DONE AS PER THE RATE FINALISED AS PER ANNEXURES ABOVE .

ANNEXURE-E

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

S. No.	ITEM 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	506-0110403-00-C	LUMP SUM ALL INCLUSIVE CHARGES PER NUMERICAL RELAY COMMISSIONING (INCLUDING CONVEYANCE TO SITE, BOARDING AND LODGING)	225	NOS.		-	-	-	
2	506-0110404-00-C	LUMP SUM ALL INCLUSIVE CHARGES PER IMC COMMISSIONING (INCLUDING CONVEYANCE TO SITE, BOARDING AND LODGING)	2000	NOS.		-	-	-	
3	506-0110405-00-C	LUMP SUM ALL INCLUSIVE CHARGES FOR WIRELESS TEMPERATURE MONITORING SYSTEM COMMISSIONING. FOR ONE LOT OF SWITCHBOARDS - LOT- 6DA, 6DB & 6DG SWITCHBOARDS	1	NOS.		-	-	-	1 NO.CONSISTS OF 3 SWITCHBOARD
4	506-0110407-00-C	TESTING AND ERECTION & COMMISSIONING CHARGES FOR HMI- ITEMS AT SL. NO. B1-B4 (HMI SYSTEM) OF ANNEXURE-B	2	NOS.		-	-	-	1 NO. SHALL CONSIST OF TESTING AND ERECTION & COMMISSIONING OF ONE ITEM EACH OF SL. NO. B1-B4 (HMI SYSTEM) OF ANNEXURE-B
		TOTAL OF ANNEXURE - E				-	-	-	

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	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).
4	FOR LINE ITEM 3, TESTING AND COMMISSIONING OF WIRELESS TEMPERATURE MONITORING SYSTEM FOR BMCC(6DA), TMCC (6DB) and EMCC(6DG) IS CONSIDERED AS 1 NO.
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 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-F

E&C SPARES

S. No.	Item no.	Item / Component	Qty.	Unit	UNIT PRICE (EX-WORKS) Rs.	TOTAL PRICE (EX-WORKS) Rs.	FREIGHT % W.R.T TOTAL EX-WORKS (%)	FREIGHT AMOUNT (Rs.)	TOTAL PRICE (EX-WORKS + FREIGHT) (Rs.)	GST@18% ON EX-WORKS + FREIGHT (Rs.)	TOTAL FOR SITE PRICE (Rs.)
1		FACTORY BUILT ASSEMBLIES (PCC/MCC/DB)									
1.1	506-0110990-00-G	Busbar supports (Horizontal)(1 set of 3)	Nos.	1		-		-	-	-	-
1.2	506-0110991-00-G	Primary isolating contacts (Bus side) of each rating(1 set of 3)	Nos.	1		-		-	-	-	-
1.3	506-0110992-00-G	Primary isolating contacts (Load side) of each rating (1 set of 3)	Nos.	1		-		-	-	-	-
1.4	506-0110993-00-G	Secondary isolating contacts of each rating (1 set of 3)	Nos.	1		-		-	-	-	-
1.5	506-0110994-00-G	Gaskets (each size)	Meter	10		-		-	-	-	-
1.6	506-0110995-00-G	Fixed Terminal (1way)	Nos.	20		-		-	-	-	-
1.7	506-0110996-00-G	Shrouds (for outgoing modules) - (one for each physical size of module)	Nos.	1		-		-	-	-	-
1.8		Wire (for secondary wiring)									
a	506-0110997-00-G	2.5 mm ²	Metres	100		-		-	-	-	-
b	506-0110998-00-G	1.5mm ²	Metres	100		-		-	-	-	-
1.9	506-0111021-00-G	Lugs (for 2.5 secondary wiring)	Nos.	100		-		-	-	-	-
1.10	506-0110999-00-G	Lugs (for 1.5 secondary wiring)	Nos.	100		-		-	-	-	-
2		AIR CIRCUIT BREAKER (FOR EACH RATING)									
2.1	506-0111000-00-G	Shunt trip coil	Nos.	5		-		-	-	-	-
2.2	506-0111001-00-G	spring charging motor - (1 motor of each rating)	Nos.	1		-		-	-	-	-
2.3	506-0111002-00-G	closing coil	Nos.	5		-		-	-	-	-
2.4	506-0111003-00-G	Auxiliary switch	Nos.	1		-		-	-	-	-
3		ISOLATING SWITCH									
3.1	506-0111004-00-G	Main contact kit for each rating (1 set of 3)	Nos.	1		-		-	-	-	-
4		POWER CONTACTORS									
4.1	506-0111005-00-G	Contact coil of each rating	Nos.	1		-		-	-	-	-
4.2	506-0111006-00-G	Contacts kit (main) for each rating (1 set of 3)	Nos.	1		-		-	-	-	-
5		AUXILIARY CONTACTORS									
5.1	506-0111007-00-G	Complete unit with 2NO + 2NC contacts - (1 no. of each rating/type)	Nos.	1		-		-	-	-	-
5.2		Contactors coils									
a	506-0111008-00-G	AC for each Aux. contactor rating	Nos.	1		-		-	-	-	-
b	506-0111009-00-G	DC for each Aux. contactor rating	Nos.	1		-		-	-	-	-
6	506-0111010-00-G	MCCB - (1 no. of each rating/type)	Nos.	1		-		-	-	-	-
7	506-0111011-00-G	MPCB - (1 no. of each rating/type)	Nos.	1		-		-	-	-	-
8	506-0111012-00-G	MCB - (1 no. of each rating/type)	Nos.	1		-		-	-	-	-
9		PUSH BUTTONS									
a	506-0111013-00-G	Actuator contacts	Nos.	5		-		-	-	-	-
b	506-0111014-00-G	Element	Nos.	5		-		-	-	-	-
10		INDICATING LAMPS									
a	506-0111015-00-G	Complete unit	Nos.	10		-		-	-	-	-
b	506-0111016-00-G	Lens (assorted)	Nos.	10		-		-	-	-	-
11		OTHERS									
11.1	506-0111017-00-G	Selector & control switch (each type)	Nos.	1		-		-	-	-	-
11.2	506-0111018-00-G	Connecting cable between CT and IMCC of appropriate length	Nos.	50		-		-	-	-	-
11.3	506-0111019-00-G	Connecting cable between VT and IMCC of appropriate length	Nos.	50		-		-	-	-	-
11.4	506-0111020-00-G	IMC Display HMI cable of Appropriate length	Nos.	50		-		-	-	-	-
TOTAL OF ANNEXURE - F						-		-	-	-	-

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
1	INCOMING FEEDER UNIT				
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.		
2	BUSCOUPLER UNIT				
	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.		
3	ACB outgoing supply feeder - Module Type DAE (O/G)/DAE-TIE				
	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.		
4	ACB outgoing motor feeder - Module Type DM/PM/AM (controlled from DDCMIS/PLC/ATRS)				

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	90- 200KW	1	No.		
5	MCCB outgoing supply feeders				
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
6	DOL Motor Starter - Unidirectional Drive - Drawout Type				
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.		
7	RDOL Motor Starter - Bidirectional Drive - Drawout Type				
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.		
8.1	Rapping Motor (RM1) Module with IMC	1	No.		
8.2	Rapping Motor (RM2) Module with OLR	1	No.		
9	DUST DENSITY MONITOR (DDM) Module	1	No.		
10	HOPPER HEATER (HH) Module	1	No.		
11	SUPPORT INSULATOR HEATER (HI) Module	1	No.		
12	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	Common Auxiliary Module				
	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) Alarm module	1	No.		
	g) 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.		
	h) 240V AC SPACE HEATER SUPPLY MODULE- SHS	1	No.		
25	Empty Panel with Horizontal & Vertical Busbar, Support & Auxiliary Busbar (4 Wire System)				
	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.		
	2500 / 2500A	1	No.		
	3000 / 3000A	1	No.		
	4000 / 4000A	1	No.		
	b) MCC Panel (Single Front Fixed Type)				

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	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.		
	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.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	UPTO 630A (with 630A VBB)	1	No.		
	i) 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.		
26	Empty Panel with Horizontal & Vertical Busbar, Support & Auxiliary Busbar (3 Wire System)				
	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.		
	3000 / 800A	1	No.		
	3000 / 1000A	1	No.		
	3000 / 1250A	1	No.		
	3000 / 1600A	1	No.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	3000 / 2000A	1	No.		
	3000 / 2500A	1	No.		
	3000 / 3000A	1	No.		
27	Dummy Panel				
	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.		
28	Unit Prices For Circuit Components				
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.		
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.		
	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.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
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.		
i)	AC Aux. contactor With				
	2NO + 2NC	1	No.		
	4NO + 4NC	1	No.		
j)	DC Aux. contactor With				
	2NO + 2NC	1	No.		
	4NO + 4NC	1	No.		
k)	Protection Relay				
	VAGM 23	1	No.		
	VTT 11	1	No.		
	VAG 11	1	No.		
	VAA 11	1	No.		
	VAJHM 13	1	No.		
	VAJHM 23	1	No.		
	CAG 12	1	No.		
	VDG 14	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.		
	VAA21	1	No.		
	VTT12	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 CONTENT OF	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 CONTENT OF	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.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	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,	1	No.		
	Numerical Relay for PHASE OVER CURRENT PROTECTION (50/51), EARTH FAULT PROTECTION (50N/51N), STALLING/ LOCKED ROTOR PROTECTION (50L/R), THERMAL OVERLOAD 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.		
	OVERLOAD RELAY, NOMINAL VOLTAGE-48V DC, O/V VLTAGE SETTING-110%, 1/4NV, 1NO+1NC S/R	1	No.		
	ELECTRONIC TYPE JAMMING RELAY	1	No.		
	l) IMC & its modules for Unidirectional Drive				
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.		
	m) Timer (DC)				
	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 ON DELAY TIMER(1-10SECS)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.		
	n) Meter				
	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.		
	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.		
	ABT meter (0.2S Acc. Class)	1	No.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
o)	Single Phase Preventor Relay	1	No.		
p)	MCB				
	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.		
	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.		
q)	SWITCH & PUSH BUTTON				
	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.		
	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.		
r)	Indicating Lamp Assembly (LED Type)				
	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.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	63.5V AC-YELLOW	1	No.		
	63.5V AC-BLUE	1	No.		
s)	CT				
i)	Metering CT				
	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.		
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)	Voltage Transformer				
	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)	Toggle switch (16A)	1	No.		
v)	Secondary Isolating Contact Block	1	No.		
w)	Control Terminal (Fixed)	1	No.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
x)	Control Terminal (Drawout)	1	No.		
y)	Thermostat, Dial type	1	No.		
z)	CONTROL TRANSFORMER				
	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.		
aa)	Transducers				
	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.		
ab)	Interposing relay RE 302 or Eqvt with freewheeling diode & LED	1	No.		
ac)	3 PIN SOCKET - 5A, 110V AC, 3PIN	1	No.		
ad)	SPACE HEATER	1	No.		
ae)	NEUTRAL LINK WITH MOUNTING ASSEMBLY				
	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.		
af)	CASTLE KEY INTERLOCK FOR MCCB - 3LOCK+2KEY	1	No.		
ag)	MECHANICAL INTERLOCK FOR POWER CONTACTOR				
	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.		
ah)	ADDON BLOCK FOR CONTACTOR				
	2NO+2NC	1	No.		
	3NO+1NC	1	No.		
	1NO + 1NC	1	No.		
	1NO	1	No.		
	1NC	1	No.		
ai)	ISOLATOR WITH HANDLE				
	16A	1	No.		
	32A	1	No.		
29	Connection from PMCC/MCC panel to PMCC/MCC panel (per meter length)				
	250A	1	No.		
	400A	1	No.		
	630A	1	No.		
	800A	1	No.		
	1000A	1	No.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	1200A	1	No.		
	1600A	1	No.		
	2000A	1	No.		
	2500A	1	No.		
	3000A	1	No.		
	4000A	1	No.		
30	Cable Glands & Lugs:				
a)	Single Compression Cable Glands for cable sizes:				
	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)	Double Compression Cable Glands for cable sizes:				
	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.		
	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.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	4C X 35 Sq. mm.	1	No.		
	1C X 300 Sq. mm.	1	No.		
	1C X 630 Sq. mm.	1	No.		
c)	Cable Lugs for sizes:				
	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.		
31.1	Thermal O/L relay with SPP - OLR				
	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.		
31.2	Heavy Duty Thermal O/L relay with SPP - OLR				
	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.		
32	Daily 8 hour rate deployed at site:				
	Engineer : (per day)	1	No.		
33	Module Name plate	1	No.		
34	Wires for Secondary wiring:				
a)	1.5 Sq. mm. per meter	1	No.		
b)	2.5 Sq. mm. per meter	1	No.		
c)	4.0 Sq. mm. per meter	1	No.		
35	Control Terminal for Secondary wiring suitable for cable size:				
1)	0.5 Sq. mm.	1	No.		
2)	1.5 Sq. mm.	1	No.		
3)	2.5 Sq. mm.	1	No.		
36	Electrical Junction Boxes (for termination of 0.5 sqmm screened control cables)				
a)	48 ways	1	No.		
b)	64 ways	1	No.		
c)	72 ways	1	No.		
a)	96 ways	1	No.		
37	Temperature Sensor for WIRELESS TEMPERATURE MONITORING SENSOR	1	No.		
38	Wireless Transmitter for WIRELESS TEMPERATURE MONITORING SENSOR	1	No.		
39	Wireless Receiver for WIRELESS TEMPERATURE MONITORING SENSOR	1	No.		
40	Additional components (except networking hardware mentioned in Sr. No. B3 of BOQ) required for completeness of WIRELESS TEMPERATURE MONITORING SENSOR	1	No.		
41	DP MCCB, ADJ. SC & 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.		
42	TP MCCB motor duty type with S/C release:				

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
	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.		
43	TP MCCB ADJ S/C , O/L, E/F release:				
	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.		
44	DC MCCB				
	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.		
45	SWITCH FUSE UNIT (DC) - DP along with fuse, link etc complete (suitable for 40kA fault current)				
	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.		
46	SWITCH FUSE UNIT (AC) - TP along with fuse, link etc complete				
	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.		
47	Y-Link	1	No.		
48	OLM, Profibus DP connector along with accessories (at Y-link end) for interface of Y-Link with DDCMIS.	1	No.		
49	SP ON/ OFF SWITCH FOR MOTOR SPACE HEATER OF BREAKER MOTOR FDR, 10A, 240V AC	1	No.		
50	4 POLE, 2 POSI., SELECTOR SWITCH FOR CONTROL TRF., 110V AC	1	No.		
51	EXTENDED ROTORY HANDLE	1	No.		
52	AUXILIARY CONTACT FOR MCCB 1C/O	1	No.		
53	TRIP CONTACT FOR MCCB 1C/O	1	No.		
54	CONTROL TERMINALS (DRAWOUT)	1	No.		
55	3 PIN INDUSTRIAL SOCKET & PLUG	1	No.		
56	ROTARY ON/OFF SWITCH	1	No.		
57	TIMER WITH 2C/O	1	No.		

ANNEXURE-H
MODULE UNIT PRICE

S.No.	Item Description	Quantity	Unit	Unit Price (Rs.)	Remarks
58	CONTROL TRANSFORMER, DRY TYPE, CAST RESIN, 415/24V, INS. CL-B OR BETTER	1	No.		
59	RECTIFIER	1	No.		
60	LIMIT SWITCH (BREAKER)	1	No.		
61	Ethernet Switch with 16 Copper Ports & 4 FO ports	1	No.		
62	Ethernet Switch with 08 Copper Ports & 4 FO ports	1	No.		
63	Cat5e/ Cat6 Ethernet Cable	1	No.		
64	Fibre Optic Patch Cord (minimum length - 10metres)	1	No.		
65	9 WINDOWS ALARM ANNUNCIATION -1	1	No.		
66	ELECTRONIC HOOTER (96SQMM)	1	No.		
NOTE:	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.				