



PUDUCHERRY POWER CORPORATION LIMITED
(A GOVERNMENT OF PUDUCHERRY UNDERTAKING)



PROJECT OFFICE, T.R. PATTINAM 609 606, KARAIKAL.

Phone: 04368-233060

Email: ppclmmc@gmail.com

Telefax: 04368-233355

Ref.No.AB-043/MMC/2024-25/1034

GSTIN No.34AAACP6507E1Z

Dt. 20.09.2024

ENQUIRY

To

Sub: Inviting offer for Testing of Relays and Current Transformers - Reg.

QUOTATION TO BE:

Submitted on or before: 11.10.2024 -5.00 pm	Opened on: 14.10.2024 - 12.00 pm
Kept valid for 3 months from the date of opening	Submitted in TWO parts.

Sealed quotation is invited for **Testing of Relays and Current Transformers. The scope of work and specification of Relay's and CTs'** are enclosed and the terms & conditions are mentioned therein.

The Party should have previous work experience for Testing of Relays and Current Transformers. The supporting document for Testing of Relays and Current Transformers works at any Industries is to be submitted with the offer.

General Terms and conditions:

1. The rate quoted should be inclusive of Testing and Calibration Kit, manpower, transport charges, tools and tackles, etc. required for the works, all taxes and other charges as admissible.
2. Applicable other charges, if any should be clearly mentioned as whether inclusive or extra. If not mentioned, it will be presumed that the rate quoted is inclusive of all other charges.
3. **EARNEST MONEY DEPOSIT:** An Earnest Money Deposit of **Rs 6000.00** (Rupees Six thousand only) should be paid by demand draft drawn in favor of the EXECUTIVE ENGINEER (MECH.), Puducherry Power Corporation Ltd T.R. Pattinam, Karaikal on any Nationalized/Scheduled bank payable at Karaikal. The earnest money deposit will bear no interest and will be released after successful completion of the work and acceptance.
4. Parties registered with NSIC or SSI/MSME is exempted for submitting EMD/SD. However copies of supporting Documents/Certificates should be kept in separate cover super scribing "**Earnest Money Deposit Exemption**".
5. The party shall be required to place the "PQR & EMD/EMD Exemption" and the "Tender" in two separate sealed envelopes marked "PQR/EMD" and "Tender" respectively. Both the envelopes shall then be placed in another sealed envelope and submitted to the tender inviting authority in the usual manner. The officer opening the tenders shall first open the envelope containing the "PQR/EMD". One week time will be given to the party for submitting the pre existing shortfall documents. If the PQR/EMD is found to be in order, only then the Officer shall proceed further with opening the Tender.
6. **The L1 bidder shall be arrived as the lowest bidder for total amount for all the items. Bidder has to quote for all the items.**



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7. The rate has to be quoted in the prescribed tabular column format for work measurement.
8. The work should be carried out in PPCL site, T.R.Pattinam, Karaikal 609 606. **The specification of Testing of Relays and Current Transformers and the scope of the work are enclosed.**
9. No Workshop facility is available inside PPCL campus and outside private workshops to be utilized by the party concerned at their own cost.
10. Exact date for commencement of work will be intimated appropriately.
11. Necessary Gate pass should be obtained well before the commencement of work.
12. The party should ensure round the clock progress of work at site and should follow all safety rules and procedures strictly inside the plant.
13. In case of any faulty workmanship in the scope of work, the tenderer must rectify the same on free of Cost.
14. **LD Clause:** If the contractor fails to complete the work within the stipulated period, then the Contractor shall pay LD@0.5% for each week delay in work and the total LD% will be subject to the maximum of 5% of the quoted rate.
15. **The bill in triplicate along with advance stamped receipt should be sent to the undersigned for effecting payment.**
16. **PAYMENT: 80%** Payment will be made within 30 days from the date of receipt of your invoice after completion of work satisfactorily and approval of Engineer-in-charge and the balance **20%** Payment will be made after submission of the following ESI / EPF etc. documents.
 - **For EPF:**

To be generated from the EPF website for the specific month for the manpower deployed to PPCL and the same to be enclosed separately with a covering letter.

 - i. Combined challan of account no.01, 02, 10, 21 &22 with TRRN number.
 - ii. EPF-Electronic Challan cum Return (ECR)
 - iii. EPF Challan summary/EPF-TRRN details.
 - **For ESI:**

To be generated from the ESI website for the specific month for the manpower same to be enclosed separately with a covering letter.

 - i. ESI challan number
 - ii. ESI monthly contribution –online challan status (Transaction details)
 - iii. ESI monthly contribution (Contractor wise) for the month of.....
17. The bidder shall make payments for ESI & EPF in separate code number other than PPCL code. No permission shall be given for PPCL code.



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18. Party should obtain all permits and licenses under the laws or regulations applicable and in connection with the work carried out and shall comply with and discharge all statutory obligations/liabilities under the various laws such as Factory Act/Workmen's Compensation Act /Employee's State Insurance Act / Employee's Provident Fund Act / Payment of Wages Act / Contract Labor (Regulation & Abolition) Act / Minimum Wages Act Etc., or any modification thereof.
19. Our Tax payment Identification GSTIN No.34AAACP6507E1ZS is registered with Commercial Taxes Department, Puducherry. Bidder should furnish their GST details.
20. Quotations through fax/mail and received after due date will not be considered.
21. Sealed quotations should be super scribed as **"QUOTATION/ENQUIRY NO.AB-043 for Testing of Relays and CT's work"** and to be sent to **The Executive Engineer (Mech.), Puducherry Power Corporation Limited, T.R.Pattinam, Karaikal-609606.**
22. If the tender opening date happens to be a holiday, the tender will be opened on the next working day.
23. The undersigned reserves all rights to accept/reject any or all the quotations without assigning any reasons thereof.
24. The work order is not transferable and subcontract/sublet of work is not permitted.


EXECUTIVE ENGINEER (MECH.)-PLANT



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Sl. No	Description	Qty In No's	Rate per unit (Rs.)	Amount (Rs.)
1	Testing & Calibration of Relays (as per the specification annexure - I enclosed from Sl.No.001 to 260) & scope of works annexure II.	462		
2	Testing & Calibration of Digital Integrated Generator Protection Relays (as per the specification annexure - III)	02		
3	Testing & Calibration of Sensitive Numerical Feeder protection relay (With 3 Over current and Earth fault protection relay) for 11KV feeders (as per the specification annexure - III)	08		
4	Testing & Calibration of Digital Multifunctional Numerical Relay (Mains Decoupling and Frequency Relay) for 110KV Bus coupler (as per the specification annexure - III)	02		
5	Testing of Current Transformers (as per the specification annexure - IV enclosed from Sl.No.001 to 21) & scope of works annexure II.	161		
Sub-Total				
GST @ %				
Total Amount (Rs.)				

Commercial Terms and Condition:

Sl. No	Details	Terms in Tender	Terms Accepted by the Party
1	Price Quoted	Inclusive of Testing, Calibration Kit, Man power, Transport charges, Tools & tackles etc.	
2	Payment Terms	80% within 30 days from the date of completion of works satisfactory and 20% after the ESI& EPF Compliances	
3	Validity	90 Days from date of opening	
4	Supporting Documents for the previous experience	Should be enclosed	
5	Delivery/ Completion Period	Vendor to specify	
6	Acceptance of All the Terms and Condition	To be Accepted	

Signature with Seal of the Party



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ANNEXURE - I
Relay Details

SL. No.	Description	Relay Type	Make	Qty	SL.No
Sub - Station 11 KV Feeders					
GENERATOR INCOMMER - 1					
1	E/F relay IDMT	ICM21 N	ABB	1	M96-01-4108
2	O/C relay IDMT	ICM21 N	ABB	3	M96-01-4111, M96-01-4117, M96-01-4110
3	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P6151036
4	Aux. Relay for gas pre. Low (96) Double Element.	RXSF1	ABB	1	
5	Trip Ckt Supervision Relay (74)	TSR	ABB	1	
6	Tripping Relay (86)	RXPQ8	ABB	1	M96-01-4109
GENERATOR INCOMMER - 2					
7	E/F relay IDMT	ICM21 N	ABB	1	M96-014-4109
8	O/C relay IDMT	ICM21 N	ABB	3	M96-01-4118, M96-01-4113, M96-01-4116
9	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0881
10	Aux. Relay for gas pre. Low (96) Double Ele.	RXSF1	ABB	1	TS1M0815
11	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1078
12	Tripping Relay (86)	RXPQ8	ABB	1	M96-01-4116
LV - 1					
13	Directional O/C	CDD	GEC ALSTHOM	3	97042909003, 97042909002, 97042909005
14	Directional E/F	CDD	GEC ALSTHOM	1	97019259001
15	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4131, M96-01-4135, M96-01-4141
16	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6904
17	Neutral Displacement Relay	UBX 117	ABB	1	M96-28-0043
18	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0658
19	Aux. Relay for gas pre. Low (96) Double Ele.	RXSF1	ABB	1	
20	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T6101074
21	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1324
22	Flag Relay (2Element)	RXSF1	ABB	1	T61M3165
23	Sensitive Earth Fault Relay	RXIG28	ABB	1	
LV - 2					
24	Directional O/C	CDD	GEC ALSTHOM	3	97042909001, 97042909004, 97042909006

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25	Directional E/F	CDD	GEC ALSTHOM	1	97049428001
26	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4133, M96-01-4119, M96-01-4125
27	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6898
28	Neutral Displacement Relay	UBX 117	ABB	1	M96-28-0044
29	Aux. Relay for antipumping (94)	RXMEI	ABB	1	
30	Aux. Relay for gas pre. Low (96) Double Element.	RXSFI	ABB	1	T51M0831
31	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1481
32	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1320
33	Flag Relay (2Element)	RXSFI	ABB	1	T61M328
34	Sensitive Earth Fault Relay	RXIG28	ABB	1	P61R1033
FEEDER - 1 (POLAGAM)					
35	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4140, M96-01-4119, M96-01-4125
36	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6898
37	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	
38	Aux. Relay for antipumping (94)	RXMEI	ABB	1	T61U0662
39	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1025
40	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1316
FEEDER - 2 (LINK)					
41	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4126, M96-01-4129, M96-01-2654
42	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6900
43	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	
44	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0675
45	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U0996
46	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1322
FEEDER - 3 (KARAIKAL)					
47	O/C relay IDMT + INST	ICM 21 K	ABB	3	M01-2657, M96-01-4127, M96- 01-4139
48	E/F relay IDMT + INST	ICM 21 P	ABB	1	A01-2877
49	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	T61M3222
50	Aux. Relay for antipumping. (94)	RXMEI	ABB	1	P61D0872
51	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1077



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52	Tripping Relay (86)	RXPQ8	ABB	1	21900050
FEEDER - 4 (STEEL)					
53	O/C relay IDMT + INST	ICM 21 K	ABB	3	M01-2653, M96-01-4130, M96-01-4128
54	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6901
55	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	
56	Aux. Relay for antipumping (94)	RXMEI	ABB	1	T61D0663
57	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1080
58	Tripping Relay (86)	RXPQ8	ABB	1	M96-07-1325
FEEDER - 5 (VANJURE)					
59	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4123, M96-01-4122, M96-01-4120
60	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6899
61	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	P61D0655
62	Aux. Relay for antipumping (94)	RXMEI	ABB	1	
63	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1076
64	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1315
FEEDER - 6 (ALLOY)					
65	O/C relay IDMT + INST	ICM 21 K	ABB	3	M96-01-4136, M96-01-4138, M96-01-4137
66	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6902
67	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	
68	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0684
69	Trip Ckt Supervision Relay (74)	TSR	ABB	1	P002571
70	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1317
FEEDER - 7 (INDUSTRIAL)					
71	O/C relay IDMT + INST	ICM 21 K	ABB	3	M01-2858, M01-2856, M96-01-4121
72	E/F relay IDMT + INST	ICM 21 P	ABB	1	A01-2878
73	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	S71594
74	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0367
75	Trip Ckt Supervision Relay (74)	TSR	ABB	1	P010408
76	Tripping Relay (86)	RXPQ8	ABB	1	M01-0947
FEEDER - 8 (PPCL)					
77	O/C relay IDMT + INST	ICM 21	ABB	3	M96-01-4126, M96-01-4134,

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		K			M01-2655
78	E/F relay IDMT + INST	ICM 21 P	ABB	1	M97-01-6903
79	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	P0021993
80	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0355
81	Trip Ckt Supervision Relay (74)	TSR	ABB	1	T61U1259
82	Tripping Relay (86)	RXPQ8	ABB	1	M98-17-3680
BUS SECTIONALIZER					
83	O/C relay IDMT	ICM 21 N	ABB	3	M96-01-4112, M96-01-4114, M96-01-4115
84	E/F relay IDMT	ICM 21 N	ABB	1	M96-01-4107
85	Synchronizing check relay	SKD	GEC ALSTHOM	1	97043459001
86	Aux. Relay for antipumping (94)	RXMEI	ABB	1	P61D0661
87	Aux. Relay for gas pre. Low (96) Double Ele.	RXSFI	ABB	1	TS1M0813
88	Trip Ckt Supervision Relay (74)	TSR	ABB	1	P61Y1082
89	Tripping Relay (86)	RXPQ8	ABB	1	M96-17-1321
90	Flag Relay (2ele)	RXSFI	ABB	1	T61M3161
BUS PT					
91	Fuse Failure relay (97)	FFR	ABB	2	S6170288,
92	Under Voltage relay (27)	RXEG2 1	ABB	4	P6151036, P6151036
93	Time Delay relay	RXKL1	ABB	2	P65X1074,
PCC					
MCC 11KV PANEL					
GTG INCOMER					
94	Gen. Differential Relay	4B3X3	EASUN REYROLLE	3	HR9726904
95	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9723208
GTG INCOMMER (STANDBY)					
96	Gen. Differential Relay	4B3X3	EASUN REYROLLE	3	HR9726905
97	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724687
GRID INCOMER - 1					
98	Over Current	TJM10	EASUN REYROLLE	2	HR 9725886
99	U/V Relay	TEB2	EASUN REYROLLE	2	HR 9725860, HR9725865
100	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9725727
101	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724695
102	Feeder differential relay	4B3X3	EASUN	3	HR9725525

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			REYROLLE		
103	Timer for UV relay	MDDA	EASUN REYROLLE	1	HR9725832
GRID INCOMER - 2					
104	Over Current	TJM10	EASUN REYROLLE	2	HR9725908
105	U/V Relay	TEB2	EASUN REYROLLE	2	HR9725861, HR9725850
106	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9725724
107	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724681
108	Feeder differential relay	4B3X3	EASUN REYROLLE	3	HR9726904
109	Timer for UV Relay	MDDA	EASUN REYROLLE	1	HR9725834
BUS COUPLER & BUS PT					
110	Over Current Relay	TJM10	EASUN REYROLLE	2	HR9725314, HR9725716
111	UV relay	TEB2	EASUN REYROLLE	4	HR9725857, HR9725669, HR9725853
112	Tripping Relay (86)	B24H2	EASUN REYROLLE	1	HR9725716
113	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724690
9.6 MW STEAM TURBINE INCOMER					
114	Gen. Differential Relay	4B3X3	EASUN REYROLLE	3	HR9726906
115	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724696
5 MVA TRANSFORMER - 1					
116	Over Current relay	TJM 11	EASUN REYROLLE	3	HR97259501
117	Earth Fault Relay	TJM 10	EASUN REYROLLE	2	HR9725891, HR9725886
118	Tripping Relay (86)	B24H2	EASUN REYROLLE	1	HR9725712
119	Auxiliary Relay	B33X3	EASUN REYROLLE	2	HR9725783, HR9725786
120	Transformer Differential Relay	4C21	EASUN REYROLLE	3	HR9724438, HR9724439
121	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724693
5 MVA TRANSFORMER - 2					
122	Over Current Relay	TJM 11	EASUN REYROLLE	3	HR9725951
123	Earth Fault Relay	TJM 10	EASUN REYROLLE	2	HR9725892, HR9725680
124	Restricted E/F Relay	B4B3	EASUN REYROLLE	1	HR9726902
125	Tripping Relay (86)	B24H2	EASUN REYROLLE	1	HR9725717



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126	Auxiliary Relay	B33X3	EASUN REYROLLE	2	HR9725785, HR9725784
127	Transformer Differential Relay	4C21	EASUN REYROLLE	3	HR9724438, HR9724439
128	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724686
2 MVA TRANSFORMER - 1					
129	Over Current Relay	TJM 11	EASUN REYROLLE	3	HR9725947
130	Earth Fault Relay	TJM 10	EASUN REYROLLE	2	HR9725887, HR9725895
131	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9617771
132	Auxiliary Relay	B33X3	EASUN REYROLLE	2	HR9725787, HR9725782
133	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724700
2 MVA TRANSFORMER - 2					
134	Over Current relay	TJM 11	EASUN REYROLLE	3	HR9725949
135	Earth Fault Relay	TJM 10	EASUN REYROLLE	2	HR9725890, HR9725893
136	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9725719
137	Auxiliary Relay	B33X3	EASUN REYROLLE	2	HR9725781, HR9725782
138	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724700
2 MVA TRANSFORMER (STANDBY)					
139	Over Current relay	TJM 11	EASUN REYROLLE	3	HR9725948
140	Earth Fault Relay	TJM 10	EASUN REYROLLE	2	HR9725894, HR9725889
141	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9725718
142	Auxiliary Relay	B33X3	EASUN REYROLLE	2	HR9725780
143	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9724694
MCC 6.6 KV PANEL					
5 MVA TRANSFORMER-1&2(6.6 KV)					
144	Over Current relay	TJM 10	EASUN REYROLLE	4	HR9725906,
145	E/F Relay	TJM 10	EASUN REYROLLE	2	HR9725907,
146	UV relay	TEB2	EASUN REYROLLE	4	HR925859, HR925863, HR9725856, HR9725851
147	Tripping relay	B24H2	EASUN REYROLLE	2	HR9727109, HR9727106
148	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	2	HR9724698, HR9727108
149	Time for UV Relay	MDDA	EASUN REYROLLE	2	HR9725830, HR9725831

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BUS COUPLER (6.6 KV)					
150	Over Current	TJM 10	EASUN REYROLLE	2	
151	E/F Relay	TJM 10	EASUN REYROLLE	1	HR9702592
152	Tripping Relay	B24H2	EASUN REYROLLE	1	HR9725715
153	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	1	HR9723269
BUS PT CUM TRUNKING					
154	UV relay	TEB2	EASUN REYROLLE	4	HR9725861, HR9725855, HR9725852
155	Timer for UV relay	MDDA	EASUN REYROLLE	2	HR9725835, HR9725833
MOTOR FEEDERS					
156	MOTOR FEEDER PROTECTION	SPAM 150C & REM 601	ABB	11	
157	UV Relay	B12	EASUN REYROLLE	2	
158	Tripping Relay	B24H2	EASUN REYROLLE	11	HR9725725, HR9725720, HR9725726, HR9725723, HR9725721, HR9725728, HR9725730, HR9725729, HR9725730, HR9725731, HR9725722
159	Trip Ckt Supervision Relay (74)	B51	EASUN REYROLLE	11	HR9724679, HR9724699, HR9724693, HR9724683, HR9724697, HR9724701, HR97246685, HR9724689, HR9724680, HR9724684.
PCC (415V)					
INCOMER 1 & 2					
160	E/F Relay Inst.	CAG	GEC ALSTHOM	2	97112690001, 97112690002
161	Over Current (Inverse)	CDG	GEC ALSTHOM	2	97102087016 , 97102087013
162	E/F Relay (Inverse)	CDG	GEC ALSTHOM	2	97102047013, 97102047001
163	Tripping Relay	VAJ	GEC ALSTHOM	2	96123933005, 96123933007
164	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	2	97112967016, 97112967014
165	Definite time Relay	VTT	GEC ALSTHOM	2	97102363001, 97102363004
166	Fuse Failure Relay	VAPM	GEC ALSTHOM	2	97112992004, 97112992003
167	UV relay	VAGM	GEC ALSTHOM	4	97112921004, 97112921004, 97054895013, 97112921001
BUS COUPLER 1 (415 V)					
168	Over Current (Inverse)	CDG	GEC ALSTHOM	1	97102087015
169	E/F Relay (Inverse)	CDG	GEC	1	97102047010

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			ALSTHOM		
170	Definite time Relay	VTT	GEC ALSTHOM	3	97102363002, 97102363003, 97102363005
171	Fuse Failure Relay	VAPM	GEC ALSTHOM	2	97112992002
172	UV relay	VAGM	GEC ALSTHOM	4	97112921010, 97112921003, 97112921002, 97112921007
173	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	1	97112967007
174	Tripping Relay	VAJ	GEC ALSTHOM	1	96123933003
FIRE PROTECTION 1					
175	Over Current (Inverse)	CDG	GEC ALSTHOM	1	97102087004
176	E/F Relay (Inverse)	CDG	GEC ALSTHOM	1	97102047015
177	Tripping Relay	VAJ	GEC ALSTHOM	1	97112744009
178	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	1	97112967004
FIRE PROTECTION 2					
179	Over Current (Inverse)	CDG	GEC ALSTHOM	1	97102087001
180	E/F Relay (Inverse)	CDG	GEC ALSTHOM	1	97102047005
181	Tripping Relay	VAJ	GEC ALSTHOM	1	97112744003
182	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	1	97112967006
BOP 1 & 2					
183	Over Current relay (Inverse)	CDG	GEC ALSTHOM	2	97102087010, 97102087003
184	E/F Relay (Inverse)	CDG	GEC ALSTHOM	2	97102047002, 97102047014
185	Tripping Relay	VAJ	GEC ALSTHOM	2	97112744008, 97112744001
186	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	2	97112967009, 97112967001
COOLING WATER 1 & 2					
187	Over Current (Inverse)	CDG	GEC ALSTHOM	2	97102087014, 97102087007
188	E/F Relay (Inverse)	CDG	GEC ALSTHOM	2	97102047006, 97102047008
189	Tripping Relay	VAJ	GEC ALSTHOM	2	97112744006, 97112744002
190	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	2	97112947015, 97112967005
MVWS 1 & 2					
191	Control Relay	VAJC	GEC ALSTHOM	2	98087392002, 98087392001
192	Tripping Relay	VAJ	GEC ALSTHOM	2	97112744005, 97112744007

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193	Trip Ckt Supervision Relay (74)	VAX MK II	GEC ALSTHOM	2	971129+67010, 97112967008
GTG 1 & 2					
194	Over Current (Inverse)	CDG	GEC ALSTHOM	2	97102087002, 97102087005
195	E/F Relay (Inverse)	CDG	GEC ALSTHOM	2	97102047011, 97102047016
196	Tripping Relay	VAJ	GEC ALSTHOM	2	97112744001; 97112744004
197	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	97112967013, 97112967003
STG 1 & 2					
198	Over Current (Inverse)	CDG	GEC ALSTHOM	2	97102087011, 97102087012
199	E/F Relay (Inverse)	CDG	GEC ALSTHOM	2	97102047007, 97102047004
200	Tripping Relay	VAJ	GEC ALSTHOM	2	97112744010, 97112744012
201	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	971129670025, 97112967012
BUS COUPLER 2 (415 V)					
202	Over Current (Inverse)	CDG	GEC ALSTHOM	1	97102087009
203	E/F Relay (Inverse)	CDG	GEC ALSTHOM	1	97102047009
204	Fuse Failure Relay	VAPM	GEC ALSTHOM	1	97112992005
205	UV relay	VAGM	GEC ALSTHOM	2	97112921009, 97112921004
206	Tripping Relay	VAJ	GEC ALSTHOM	1	96123933002
207	Trip Ckt Supervision Relay	VAX MK II	GEC ALSTHOM	1	98097466001
D.G. INCOMER					
208	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	1	97112967001
MCC					
GT MCC 1&2					
209	Instantaneous Under Voltage	VAGM	GEC ALSTHOM	4	97054895015, 97077952002, 97054895011, 97112927003
210	Definite time Relay	VTT	GEC ALSTHOM	2	97090822002, 97090822001
211	Fuse Failure Relay	VAPM	GEC ALSTHOM	2	97112984001, 9711298622001
212	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	97112962222, 97112962001
213	Aux. Relay	VAA	GEC ALSTHOM	2	95090694002, 95090694001
STG MCC 1&2					
214	Instantaneous Under Voltage	VAGM	GEC ALSTHOM	4	97112927001, 97112927004, 97112927006, 97112927002
215	Definite time Relay	VTT	GEC ALSTHOM	2	97102593002, 97102593003



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216	Fuse Failure Relay	VAPM	GEC ALSTHOM	2	97112997004, 97112997001
217	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	97112971003, 97112971002
STG MCC BUS COUPLER					
218	Instantaneous Under Voltage	VAGM	GEC ALSTHOM	4	97112921005, 97112927008, 9711927007, 9711297005
219	Fuse Failure Relay	VAPM	GEC ALSTHOM	2	97112997002, 97112997003
220	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	1	97112971001
221	Definite time Relay	VTT	GEC ALSTHOM	1	97102593001
380 KVA GEN. SET					
222	Tripping Relay	VAJ	ENGLISH ELECTRICAL	1	95051226004
223	Negative Sequence Relay	CTNM	GEC ALSTHOM	1	97031942007
224	UV relay	VAGM	ENGLISH ELECTRICAL	1	96029727004
225	Over Voltage Relay	VDG	GEC ALSTHOM	1	97042999001
226	UV relay	VDG	GEC ALSTHOM	1	97077712002
227	Under Frequency Relay	FTG	ENGLISH ELECTRICAL	1	94092600003
228	Definite time reverse power relay	CCUM	GEC ALSTHOM	1	96124789001
229	Definite Time Relay	VIT	GEC ALSTHOM	1	
230	Over Current (Inverse)	CDG	GEC ALSTHOM	2	96031887010
231	E/F Relay (Inverse)	CDG	GEC ALSTHOM	1	96031887010
232	Instantaneous differential relay	CAG	GEC ALSTHOM	3	94102722003
GTG RELAY PANEL					
233	Tripping relay	VAJ	GEC ALSTHOM	2	95090875002, 95090875004
234	Instantaneous Under Voltage Relay	VAGM	GEC ALSTHOM	1	97031449001
235	Over Voltage Relay	VTU	GEC ALSTHOM	1	95125741002
236	Definite Time Over Current Relay	CTU	GEC ALSTHOM	1	95091603001
237	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	9606706001, 97017388007
238	Definite Time Relay	VTT	GEC ALSTHOM	2	97031931006, 95125872011
239	Auxiliary Relay	VAA	GEC ALSTHOM	09	35479464/10/21, 97031615110, 97031616015, 9612548058, 96124272004, 97031615011, 97031615001, 96067143012, 35479465/10/21



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240	Voltage Balance Relay	MVAP	ENGLISH ELECTRICAL	2	95125945003, 95125945002
241	Check Synchronizing Relay	SKE	GEC ALSTHOM	1	97102313001
242	Gen. Cable Diff Protection Relay	CAG	GEC ALSTHOM	1	96055646001
243	Rotor Earth Fault Relay	MRR1-HRD	C & S	1	
STG RELAY PANEL					
244	Tripping Relay	VAJ	GEC ALSTHOM	2	97031393001, 95037905003
245	Instantaneous Under Voltage	VAGM	GEC ALSTHOM	1	97031450001
246	Over Voltage Relay	VTU	GEC ALSTHOM	1	97031790001
247	Definite Time Over Current Relay	CTU	GEC ALSTHOM	1	95125782001
248	Trip Circuit Supervision Relay	VAX MK II	GEC ALSTHOM	2	96067060017, 95125428007
249	Definite Time Relay	VTT	GEC ALSTHOM	1	97031931002
250	Auxiliary relay	VAA	GEC ALSTHOM	09	96125488025, 96080772003, 97031615005, 95102984005, 97031615014, 95091177017, 97031615012, 970331704002, 97031615009
251	Voltage Balance Relay	MVAP	ENGLISH ELECTRICAL	2	95091795001, 95091795003
252	Check Synchronizing relay	SKE	GEC ALSTHOM	1	SKR11BF8002BCH
253	Gen. Cable Diff Protection Relay	CAG	GEC ALSTHOM	1	94113838002
254	Rotor Earth Fault Relay	MRR1-HRD	C & S	1	
110 V D.C STATION DISTRIBUTION					
255	Battery Earth Fault Relay	CAEM, MK II	GEC ALSTHOM	1	97325101001
256	Inst U/V Relay	VAGM	GEC ALSTHOM	1	9752505601
125 D.C DISTRIBUTION					
257	Battery Earth Fault Relay	CAEM, MK II	GEC ALSTHOM	1	97112948001
258	Inst U/V Relay	VAGM	GEC ALSTHOM	1	97112893001
S.S 110 V D.C DISTRIBUTION					
259	E/F Relay	CAEM, MK II	GEC ALSTHOM	1	97090654001
260	U/V Relay	VAGM	GEC ALSTHOM	1	95086719001
Total No. of Relays				462	



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ANNEXURE - II

Scope of Work for Relays & CT's Testing

1. Testing of Relay to be done through secondary injection method from the secondary terminals of PT & CT including wiring **using 3 -Phase Relay Kit.**
2. All relays are to be tested one by one.
3. Relays are to be tested in at least three different plugs & time settings.
4. All relays are to be restored back to or original setting in the original place after testing.
5. Following tests are to be done in CTs:
 - a) Measurement of IR Value between primary to secondary core and earth, primary to secondary cores, each secondary core to other cores, all secondary cores to earth.
 - b) Polarity tests
 - c) Winding resistance test
 - d) Ratio test
 - e) Knee point Voltage Test.
6. All testing instruments & tools should be brought by the contractor.
7. Any relays if required to be replaced during the relay testing, the contractor should replace the relays as directed by the Engineer-in-charge, relays will be supplied by PPCL.
8. The contractor should have valid calibration certificate for the testing Instruments to be used at the site.
9. The contractor should mobilize sufficient skilled manpower (Engineer/Technician should be Senior Technical personnel having sufficient experience in the above Relays, and CT's testing work) to complete the job within the stipulated shutdown period.
10. After completion of testing the agency should furnish two sets of test reports.
11. In case of any faulty workmanship in the scope of work, malfunction the party must rectify the same at their own cost.
12. The contractors may be instructed to visit the site for inspection of relays before submitting their offer.
13. At the time of plant startup, if any problem observed in the tested equipments, the contractor should be available at PPCL site to rectify the above without additional charge.

ANNEXURE - III

SPECIFICATION OF THE DIGITAL INTEGRATED GENERATOR PROTECTION RELAY

- 02 No's.

Make	: GEC Alsthom India Ltd.,
Type	: LGPG 111 01S144LED
Sl. No.	: 039064 J for GTG & 039065J for STG
AC Current In	: 1A
Auxiliary Voltage Vx (1)	: 110V DC
Auxiliary Voltage Vx (2)	: 110V DC
Frequency Fn	: 50 Hz
Total	: 2 No's



SCOPE OF WORK

- The above relays are to be tested by using 3 Phase Micro processor based secondary injection test kit of "Omicron or Doble" make test kit.
- All the functions that are enabled & disabled in LGPG relay are to be tested.
- Testing is to be done for present setting only.
- After testing of the relay, original setting to be restored back.
- All testing, calibrating instruments and tools required for the testing is under the agency's scope.
- The contractor should have valid calibration certificate for the testing instruments to be used at the site.
- The contractor should mobilize sufficient skilled manpower to complete the job within the stipulated shutdown period.
- After completion of testing the agency should furnish two sets of test reports.
- In case of any faulty workmanship in the scope of work, malfunction the party must rectify the same at their own cost.

SPECIFICATION OF THE SENSITIVE NUMERICAL FEEDER PROTECTION RELAY (WITH 3 OVERCURRENT AND 1 EARTH FAULT PROTECTION RELAY) - 08 No's in 11 KV Distribution Feeders

Make : ABB
Type : REJ601 (Time over current and earth fault relay with Circuit Breaker failure protection)
Auxiliary Voltage: 110V DC
Total : 08 No's

SPECIFICATION OF THE DIGITAL MULTIFUNCTIONAL NUMERICAL RELAY (MAINS DECOUPLING AND FREQUENCY RELAY) 02 No's IN 110 KV BUSCOUPLER PANEL

Make : SEGC (C & S)
Type : MRF2-1-HD & MRN2-1-1HD
Auxiliary Voltage: 110V (50 to 270 V AC, 70 to 360 V AC)
Nominal Voltage : 100 V
Nominal Frequency: 50 -60 HZ
Total : 02 No's.

SCOPE OF WORK

- The above relays are to be tested by using 3 Phase Micro processor based secondary injection test kit.
- All the functions that are enabled & disabled in numerical relay are to be tested.
- Testing is to be done for present setting only.
- After testing of the relay, original setting to be restored back.
- All testing, calibrating instruments and tools required for the testing is under the agency's scope.
- The contractor should have valid calibration certificate for the testing instruments to be used at the site.
- The contractor should mobilize sufficient skilled manpower to complete the job within the stipulated shutdown period.
- After completion of testing the agency should furnish two sets of test reports.
- In case of any faulty workmanship in the scope of work, malfunction the party must rectify the same at their own cost.



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ANNEXURE -IV		
SPECIFICATION For CT'S		
SL NO	FEEDER WISE CT DETAILS	Qty
MCC 6.6 KV PANEL		
1	CWP & BFP Ratio : 25/1-1A, Core I, Class: 7.5 VA, 10P10 Core II, Class: 7.5VA, 3	15
2	GBC Ratio: 40/1-1A Core I : 7.5 VA, 10P10 ,Core II: 7.5 VA, 3	15
3	INCOMER I & II Ratio: 500/1-1-A, Core I: 15 VA, 5P10 ,Core II: 15VA, 1.0, Core III: VK≥90 (RCT + 0.2) + 40 V	6
4	BUS COUPLER Ratio: 500/1- 1+1A, Core: 15VA, 5P10	3
MCC 11KV PANEL		
5	2 MVA Transformer - I & II Ratio: 150/1-1A, Core I: 15VA, 5P10, Core II: 15VA, 1	6
6	5 MVA Transformer - I&II Ratio : 300/1- 1A, Core I: 15VA, 5P10, Core II: 15VA, 1	6
7	Diff. CT for 5 MVA Tr. - I&II 300/1A ,270 (RCT + 0.2)	6
8	Incomer - I &II Ratio: 2000/1A,Core I: 20 VA, 5P20, Core II: 20 VA, 1.0	6
9	Vk ≥ 40 (RCT + 0.2), Ps	12
10	Bus Coupler Ratio: 2000/1A, Core I: 15 VA, 5p20, Core II: 15VA, 1.0	3
Substation		
11	Generator Incomer : I & II Ratio: 2000/1A, Core I: 15Va, 5P20, Core II: 20 VA, 1 Accy Class : 0.2S for Incomer II & & 0.5 for Incomer I	6
12	Transformer - I&II Ratio: 1000/1A Core I: 20 VA, 1 Core II: 15 VA, 5P20	6
13	Diff. CT Vk > = 250V, Io < = 302mAat Vk/2Rct < = 1.5 Ω	6
14	Bus Coupler Ratio: 2000/1A Core I : 25 VA, 1, Core II : 30 VA, 5P20	3
15	Feeders Ratio: 400/1A ,Core I: 20 Va, 1, Core II: 15 VA, 5P20	24
STG		
STG - Stator Bus		
16	Ratio: 800/1A	
	Class: 0.5, Burden: 40 VA	3
	Class: 0.5 Burden: 100 VA	3
	Class: PS	3
17	STG - NGR BUS Ratio: 800/1A	



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	Class: 0.5 Burden : 40 VA	3
	Class : PS	3
	Class: 0.2 Burden : 100VA	3
18	STG - Neutral Bus 100/1A, Class: 5P10 Burden: 15 VA	1
	GTG	
	GTG Stator Bus Ratio: 2000/1A	
19	Class: PS	3
	Class: 5P10 Burden: 100 VA	3
	Class : PS	3
	GTG NGR Bus Ratio: 2000/1A	
20	Class: 0.5 Burden: 40 VA	3
	Class: PS	3
	Class: 0.2 Burden : 100 VA	3
21	GTG Neutral Ratio: 100/1A	1
	Total No. of CT's	161