



MAHA TRANSCO
MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.



Office of The Superintending Engineer

Protection, Automation & Communication Circle, Nashik
Prakashkumbh, Block No. 12, Near Durgamata Mandir,
Old Saikheda Rd, Jail Rd, Nashik Road - 422 101
Email Id: se5500@mahatransco.in

Ref. No. SE/PAC/CIRCLE/NSK/T-19 / 1 6 1 = -

Date:- 2 APR 2025

Sub: - Budgetary Offer for supply of Numerical Differential Relays for ICT's, Power Transformers at various substations under PAC Circle, Nashik for preparation of estimate.

Ref: - 1. CE/EHV PC (O&M) Zone/NSK/T-15/No. 445 Dt: 14.03.2023.

Dear Sir,

In connection with the above subject; this office is processing estimate for the subjected work & for same budgetary offer are invited by the undersigned from approved vendors of MSETCL. The offer for relays having GTP as per Annexure "A" should be indicated in Schedule for price provided below & submitted to this office on or before 08.04.2025 18:00Hrs.

- The budgetary offer rates should include charges for T&P, skilled workmen etc.
- The quantities mentioned in schedule are tentative & subject to be varied.
- The GST & other taxes should be mentioned separately in budgetary offer or else will be considered as inclusive.
- Budgetary offer received after due date will not be accepted.

Thanking you,

Yours faithfully,

(Sanjay L. Atram)

Superintending Engineer
PAC Circle, MSETCL, Nashik

Copy to: - The Manager (F&A), EHV (O&M) Circle, MSETCL, Nashik



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SCHEDULE 'A'

Sr. No.	Particulars	Unit	Quantity	Rate
1	Supply of Numerical Differential Relay	Nos.	1	
	Taxes if any			
	Total			

(Sanjay L. Atram)
Superintending Engineer
PAC Circle, MSETCL, Nashik



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ANNEXURE - A

**GUARANTEED TECHNICAL PARTICULARS (GTP) FOR NUMERICAL
DIFFERENTIAL PROTECTION RELAYS FOR ICT's, POWER TRANSFORMERs**

Sr. No.	Particular	Desired by Purchaser	Offered by Bidder
1	Manufacturers Name and Country of Manufacture	Yes (It is required)	
2	Type/Model details of offered equipment	Yes (It is required)	
3	Whether the relay is suitable for Auto-transformers (ICTs) & two or three winding Transformer?	Yes (It is required)	
4	Whether the relay is suitable for any vector group of ICTs/Transformers?	Yes (It is required)	
5	Whether 2 nd harmonic restraint features provided?	Yes (It is required)	
6	Whether 5 th harmonic restraint features provided?	Yes (It is required)	
7	Whether programmable CT ratio correction feature provided?	Yes (It is required)	
8	General design	Numerical, fully programmable and Communicable	
9	Type of protocol for communication	Site selectable IEC-61850 Edition 1&2, KEMA/CPRI certificate. (without Protocol Convertor)	
10	Whether the offered relay is suitable for 110V or 220V DC?	Yes (It is required)-Universal Voltage	
11	Whether Numerical Relay offered is suitable for harsh environment to sustain wide operating temperature range & humidity range, particle & Moisture repellence capability?	Bidder to confirm.	
12	Processor capabilities of relay	Minimum 32 bit	

Sr. No.	Particular	Desired by Purchaser	Offered by Bidder
13	Whether bi-stable Input/ Output are compliant of ENA 48-4 or equivalent standard	Yes (it is required). To be indicated by the bidder	
14	Number of programmable bi-stable inputs available	Minimum 24 programmable (Settable for 110V / 220V DC)	
15	No. of trip contacts and Bi-stable outputs available	Minimum 24	
16	Number of output LEDs available	Minimum 12 (8 Programmable + 4 fix)	
17	Contact rating	5A continuous & make & carry capacity 30A for 0.2 seconds or better (As per IEC60255-1).	
18	Whether contacts are Programmable?	Yes (it is required)	
19	Whether blocking or unblocking (to trip) feature is programmable?	Yes, should be programmable with time setting for blocked condition	
20	Whether separate low set & Unrestrained high set differential function is provided?	Yes (it is required)	
21	Details of the software employed for remote Parameterization of disturbance recorder and evaluation Purpose	To be indicated by the bidder	
22	GPS time synchronization	Via IRIG-B port	
23	Communication Port	Port for SCADA communication with Software & Communication cable (FO & LAN Cable) Front Port – USB/LAN, Rear Port- Minimum 02nos. LAN Ports & 01 no. FO Port	


 (Sanjay L. Atram)

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