

**MRSDMM**

MAHANAND DAIRY

MAHARASHTRA RAJYA SAHAKARI DUDH MAHASANGH MARYADIT
Unit No. 12, Aarey colony, Western Express Highway, Goregaon (E), Mumbai-400 065

ENQUIRY

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Ref.No.MND/6/ENGG/2022-23 / 1620

Date:- 11/08/2022

To,

M/s.

Under Postal Certificate

Dear Sir,

Kindly submit your lowest offer for the following items mentioned below. Quotations may please be sent to us on or before **26/08/2022**. Quotation received after the due date mentioned here in will not be considered. Quotation should be send in sealed cover duly marked as "Quotation for :- **AMC FOR A) Preventive & Breakdown Maintenance of H.T. Panel B) Preventive & Breakdown Maintenance of L.T. Panel C) Preventive & Breakdown Maintenance of Transformer D)I.R. Test E) Earth Resistance Measurement.**

Sr No	Description	Quantity Required
	SUB:- AMC FOR A) Preventive & Breakdown Maintenance of H.T. Panel B) Preventive & Breakdown Maintenance of L.T. Panel C) Preventive & Breakdown Maintenance of Transformer D) I.R. Test E) Earth Resistance Measurement. Details : As per sheet enclosed. <u>TERMS AND CONDITIONS :</u> (1) Party can inspect the job at Mahanand Dairy & can have further discussion for clarification if any. (2) Rate should be coated with Labour & material charges. (3) The rates should be inclusive of all applicable taxes, such as WCT, ESIS etc., if any. (4) The party may inspect the job and can have discussions for the clarifications, if any. (5) Payment will be made after satisfactory completion of work and satisfactory trial run on load for one week. (6) All testing instrument should be NABL approved. (7) Testing report should be submit after completion of work.	01 JOB

Act. Manager (Engg.)

SCOPE OF WORK :

A) H.T. Panel :

- 1) Carryout preventive & Breakdown maintenance & Testing of Vacuum Circuit Breakers.

VACUUM CIRCUIT BREAKER – 06 NOS.

Details :

MODEL	VMAX 12.12.25
INSULATION LEVEL	28KV/75KVPK
SHORT CIRCUIT BRAKING CURRENT	263 KA
RATED V	12KV.
RATED A	800
FREQUENCY	50HZ.
SHORT CIRCUIT CURRENT DURATION	3 SEC.
SHORT CIRCUIT MAKING CURRENT V	66 KAPK
OPERATINGSEQUENCE	O-0.35-CO.3 MIN-CO.
CLOSING COIL SUPPLY VOLTAGE	110VDC.
OPENING COIL SUPPLY VOLTAGE	110VDC.
ADDITIONAL TRIPING COIL VOLTAGE	230VAC
MAKE	ABB

- 2) Carryout Testing of HT Panel Protection Relays.

Details :

Sr. No.	DESCRIPTION	QTY.
1.	IDMT OVER CURRENT + EARTH FAULT RELAY WITH SHORT CIRCUIT TYPE : N41, O/C SETTING : 50-200% OF 1 A , E/F SETTING: 10-40% OF 1A, INSTANEOUS SETTING : 200-2000%, FLUSH MOUNTING TYPE, MAKE : ABB	06 NOS.
2.	TRIP RELAY TYPE : PQ8NCH2JS, AUX. SUPPLY : 110 VDC, 3NO+1NC CONTACT, CASE SIZE : ¼ w, MAKE : ABB	06 NOS.
3.	TRIP CIRCUIT SUPERVISION RELAY TYPE : TCS, 110 VDC, FLUSH MOUNTING TYPE, MAKE : ABB	06 NOS.
4.	AUX. RELAY FOR TRANSFORMER FAULT TYPE : CV 2D2J, AUX. SUPPLY : 110 VDC, 2 ELEMENT, MAKE : ABB	12 NOS.

B) L.T. Panel :

- 1) Carryout Preventive & Breakdown maintenance of L.T.Panel – 07 Nos. (Power House – 04 Nos. , Refrigeration Section – 03 Nos.)
2) Carryout Preventive & Breakdown maintenance of ACB & Testing of protection relay with necessary testing instrument as per I.E. rule 1956. – 20 Nos.

Sr. No.	DESCRIPTION	QTY
1.	AIR CIRCUIT BREAKER TYPE : 3 WT8, RATING : 2000 A, MAKE : SIEMENS	12 NOS.
2.	AIR CIRCUIT BREAKER TYPE : 3 WT8, RATING : 1000 A, MAKE : SIEMENS	02 NOS.
3.	AIR CIRCUIT BREAKER TYPE : 3 WT8, RATING : 800 A, MAKE : SIEMENS	03 NOS.
4.	AIR CIRCUIT BREAKER TYPE : 3 WT8, RATING : 1600 A, MAKE : SIEMENS	01 NO.
5.	AIR CIRCUIT BREAKER TYPE : CN – CS 2000C, RATING : 2000 A, MAKE : L & T	01 NO.
6.	AIR CIRCUIT BREAKER TYPE : CN – CS 1250C, RATING : 1250 A, MAKE : L & T	01 NO.

C) TRANSFORMER

- 1) Carryout oil filtration to improve Di-electric strength of oil as per I.E. rule 1956.- 04 Nos.
- 2) Replace the silica Gel if its color changes to pink. – 04 Nos.
- 3) Testing of MOG, Winding and Oil temperature alarm, Buchholz relay. – 04 Nos.

TRANSFORMER – 04 NOS.

Details :

MAKE - ETE	TEMPERATURE RISE IN ON °C - 45
MAKERS SR No. K175	IMPEDANCE VOLTAGE: 5% - 5.49
TO INDIAN STANDARD : 2026 - 1962	CARE & WINDING Kg. - 1770
CAPACITY: 1000 KVA	WEIGHT OF OIL Kg. - 790
VOLTS AT NO LOAD: HV - 11000 LV - 433	TOTAL WT Kg.- 3620
AMP: HV - 52.5 LV - 1334	OIL LITERS - 880
PHASE: HV - 3 LV - 3	VECTOR SYMBOL: DY11
FRIQUENCY: C/5 - 50	

D) I.R. TEST

- 1) Carryout I.R. test of Electrical control panels – 36 nos.

E) EARTH RESISTANCE MEASUREMENT

Carry out Measurement of Earth resistance of earth electrodes installed in substation & Prepack, Process section, ETP, Boiler, Head office, Weigh bridge, Aseptic plant , New Product section etc. of Mahanand Dairy premises using rotating type earth tester & proper works includes cleaning of joint strips applying Petroleum Jelly & replacing bolts & nuts as per I.E. rule 1956.

- 1) Earthing Pits Quantity = 80 Nos.

EARTHING PITS DETAILS

EARTH PIT NO,	DETAILS OF EQUIPMENTS OF EARTH PIT	EARTH PIT STATION
EP1	TRANSFORMER NO. - 1	NEUTRAL -1
EP2		NEUTRAL -2
EP3		BODY - 1
EP4		BODY - 2
EP5	TRANSFORMER NO. - 2	NEUTRAL -1
EP6		NEUTRAL -2
EP7		BODY - 1
EP8		BODY - 2
EP9	TRANSFORMER NO. - 3	NEUTRAL -1
EP10		NEUTRAL -2
EP11		BODY - 1
EP12		BODY - 2
EP13	TRANSFORMER NO. - 4	NEUTRAL -1
EP14		NEUTRAL -2
EP15		BODY - 1
EP16		BODY - 2
EP17	HT PANEL	BODY - 1
EP18		BODY - 2
EP19	L.T.PANEL	BODY-1
EP20		BODY-2
EP21		BODY-3
EP22		BODY-4
EP23	NEW PRODUCT DDC PANEL (AUTOMATION)	BODY-1
EP24	NEW PRODUCT PCC PANEL	BODY-1
EP25		BODY-2
EP26		BODY-3
EP27	NEW PRODUCT LIFT PANEL	BODY-1
EP28		BODY-2
EP29		BODY-3
EP30		BODY-4
EP31	LIGHTNING ARRESTER (PO.HOUSE)	
EP32	REFRIGERATION PANEL	BODY-1
EP33		BODY-2
EP34		BODY-3
EP35	LIGHTING PANEL (REFRIGERATION)	BODY-4
EP36	PROCESS PANEL	BODY-1
EP37		BODY-2
EP38		BODY-3
EP39		BODY-4

EP40	SILO LIGHTNING ARRESTER	L ARRESTER - 1
EP41		L ARRESTER - 2
EP42	PREPACK PANEL	BODY-1
EP43		BODY-2
EP44	ETP PANEL	BODY-1
EP45		BODY-2
EP46		BODY-3
EP47		BODY-1
EP48	BOILER PANEL	BODY-2
EP49		BODY-3
EP50		BODY-4
EP51		BODY-1
EP52	LIGHTNING ARRESTER CHIMNEY	L ARRESTER - 1
EP53	PUMP HOUSE PANEL	BODY-1
EP54	DISTRIBUTION PANEL	BODY-1
EP55	HEADOFFICE SWITCHROOM PANEL	BODY-1
EP56	LIGHTNING ARRESTER HO	L ARRESTER - 1
ASEPTIC PLANT		
EARTH PIT NO,	DETAILS OF EQUIPMENTS OF EARTH PIT	EARTH PIT STATION
EP-56	PCC PANEL	BODY-1
EP-57		BODY-2
EP-58	UPS PANEL	BODY-1
EP-59		BODY-2
EP-60		BODY-3
EP-61		BODY-4
EP-62	TRANSFORMER	BODY-1
EP-63		BODY-2
EP-64		BODY-3
EP-65		BODY-4
EP-66	PACKING MACHINE	BODY-1
EP-67		BODY-2
EARTH PIT NO,	DETAILS OF EQUIPMENTS OF EARTH PIT	EARTH PIT STATION
EP-68	PACKING MACHINE	BODY-3
EP-69	CARDBORAD PACK MACHINE	BODY-1
EP-70		BODY-2
EP-71	AIR COMPRESSOR	BODY-1
EP-72		BODY-2
EP-73		BODY-3
EP-74	STURLISER PLANT PANEL	BODY-1
EP-75	ALCEP PANEL	BODY-1
EP-76	FEV PLANT	BODY-1
EP-77		BODY-2
EP-78	LIGHTNING ARRESTER ASEPTIC PLANT	L ARRESTER - 1
EP-79	LIGHTNING ARRESTER NEW PRODUCT	L ARRESTER - 1
EP-80	WEIGHING BRIDGE	BODY
EP-81	NEW QUALITY CONTROL	BODY-1
EP-82		BODY-2

T. Talw

Act. Manager (Engg.)