

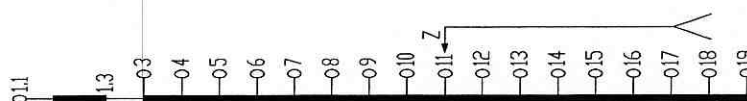
ANNEXURE-4

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DATA SHEET FOR INTERNAL TANK MOUNTED ON LOAD TAP CHANGER

1. ON LOAD TAP CHANGER 3- PHASE SINGLE POLE, 600AMP (72.5 kV)-LINEAR

- (I) WINDING ARRANGEMENT : LINEAR
- (II) OPERATING POSITION : 17 POSITION MAX.
(PROVISION ON DEMAND SUCH THAT ANY NUMBER OF STEPS CAN BE USED)
- (III) DIRECTION OF POWER FLOW : BI-DIRECTIONAL
2. OLTC TYPE : HIGH SPEED TRANSITION RESISTOR
3. OLTC RATED CURRENT : 600 AMP



4. OLTC TEST DATA:

Test Voltage in kV	Between phases	Tap To Earth	Across Range	Between tap
Power frequency 50Hz	82	140	82	20
Impluse (1.2/50) Micro Sec.	350	550	350	90

5. OLTC AUX. SUPPLY REQUIREMENT :

- a) ON LOAD TAP CHANGER MOTOR : 415V, 3-PH, 50Hz.AC
- b) ON LOAD TAP CHANGER CONTROL : 110V, 1PH, 50HZ.AC
(DRIVEN FROM 415V THROUGH AN AUXILIARY TRANSFORMER OF 415V/55-0-55V, 500VA RATING AND TO BE PROVIDED INSIDE THE OLTC LOCAL DRIVE UNIT BY THE OLTC MANUFACTURER)
- c) THERMOSTATIC CONTROL HEATING & LIGHTING : 240V, 1-PH, 50HZ, AC.

6. OLTC CONTROL REQUIREMENT (ONLY PROVISION):-

- a) LOCAL ELECTRICAL
- b) REMOTE ELECTRICAL
- c) PARALLEL
- c) MANUAL
- d) AUTO

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6 (a) POTENTIAL FREE CONTACTS FOR FOLLOWINGS:

- | | | |
|----|-----------------------------------|----------|
| a) | OLTC MOTOR PROTECTION SWITCH TRIP | - 01 No |
| b) | OLTC REACHED AT LOWEST POSITION | - 01 No. |
| c) | OLTC REACHED AT HIGHEST POSITON | - 01 No |
| d) | TAP CHANGE IN PROGRESS | - 02 No. |
| e) | OLTC CONTROL SUPPLY 110V AC FAIL | - 02 No. |
| f) | OLTC CONTROL ON LOCAL & REMOTE | - 01 No. |

SINGLE PHASE PREVENTER WITH PHASE REVERCE INTER-LOCK FACILITY

7. RADIAL SWITCH & CCU REQUIREMENT:

4 NOS. RADIAL SWITCHES SHOULD BE PROVIDED AS PER FOLLOWING DETAILS

- a) 1 NO. MBB SWITCH WITH 1000+/-1% OHM PER STEP RESISTANCE ASSEMBLY FOR REMOTE TAP POSITION INDICATOR.
- b) **1 NO. MBB SWITCH WITH RESISTANCE ASSEMBLY FOR 2 No. 4-20 mA DC OUTPUT THROUGH CCU MOUNTED IN OLTC MOTOR DRIVE UNIT FOR TPI.**
- c) 1 NO. BBM SWITCH FOR PARALLEL OPERATION.
- d) 1 NO. BBM SWITCH FOR ODD/EVEN SWITCH FOR PARALLEL OPERATION.

8. PAINTING:-

EXTERIOR: PAINT THICKNESS 70 TO 100 MICRON.

PAINT DETAILS & SHADE: AT THE TIME OF ORDER PLACEMENT.

9. ACCESSORIES TO BE SUPPLIED LOOSE:

- a) OIL SURGE RELAY WITH PIPE ELBOWS FOR OSR, SUCTION WITH EACH OLTC, BEVEL GEAR, DRIVE SHAFT, SHAFT GUARD FOR ALL SHAFT ALONG WITH OLTC MOTOR DRIVE UNIT. (THE HEAD VARIANT, SWIVELLING RANGE & CABINET HINGE WILL BE INFORM LATER ON AT ORDER STAGE).
- b) MANUAL OPERATING HANDLE.

10. WIRING OF LOCAL MOTOR DRIVE UNIT:

SUPPLIER TO SUBMITT THEIR STANDARD WIRING DIAGRAM FOR EVALUATION. HOWEVER MINOR CHANGES AT THE TIME OF END CUSTOMER'S APPROVAL IS TO BE INCORPOARTED WITHOUT PRICE IMPLICATION.

11. TESTING OF OLTC:

FOLLOWING TYPE TEST & ROUTINE TEST REPORTS AS PER IEC-60214 & ENCLOSED CUSTOMER SPECIFICATION (NOT OLDER THAN FIVE YEARS) SHALL BE SUBMITTED ALONG WITH OFFER.

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ANNEXURE-4
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- a) THE VARIOUS TESTS (ROUTINE AND TYPE) AS STIPULATED IN THE IEC-60214 (AS AMMENDED UP TO DATE) INCLUDING VACUUM HELIUM AND GAS LEAK ROUTINE TESTS SHALL BE CARREIED OUT.
- b) SUPPLIER SHALL SUBMIT TYPE TEST CERTIFICATE & COPIES OF OSCILLOGRAMS AS CALLED FOR IN IEC-60214 (AS AMMENDED UP TO DATE).
- c) TEMPERATURE RISE OF CONTACT, SHORCT CIRCUIT TEST, MECHANICAL TEST, DIELECTRIC TEST AS PER IEC-60214 AND DEGREE OF PROTECTION IP-55 TEST ON MOTOR DRIVING UNIT.
- d) OLTC MOTOR CURRENT SIGNATURE AS ROUTINE TEST.

ALL ABOVE TEST REPORTS SHOULD BE FURNISHED IN TRIPLICATE.

12. DOCUMENTS AND DRAWINGS REQUIRED WITH OFFER:

- (a) ALL TYPE REPORTS AS PER IEC-60214.
- (b) OVER ALL DIMENSIONAL DRG. OF OLTC, OLTC MOUNTNG ARRANGEMENT, OSR, BEVEL GEAR, HEAD VARIANT, OGA OF MOTOR DRIVE UNIT, SHAFTS ARRANGEMENT. (ALL TYPE OF ALTERNATIVES)
- (c) PHASE DIAGRAM OF OLTC.

12 (a) AFTER AWARD OF CONTRACT:

- a) FINAL LOCAL DRIVE UNIT WIRING DIAGRAM DRAWING IN AUTO-CAD.
- (b) MAKE AND TYPE OF ALL EQUIPMENTS ALONG WITH THEIR OVER ALL DIMENSIONS AND ELECTRICAL CONNECTION DIAGRAM.

12 (b) WITH CONSIGNMENT:

- a) INSTALLATION, OPERATION AND MAINTENANCE MANUAL IN TEN COPIES WITH EACH OLTC.
- b) TESTS CERTIFICATE IN TRIPLICATE.

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