



MADE IN INDIA BY

**EMCO TRANSFORMERS LTD.**

THANE

MAHARASHTRA

**POWER TRANSFORMER**

SPECIFICATION REF. NO.

TYPE OF COOLING

RATED POWER { HV kVA  
LV kVARATED VOLTAGE { HV kV  
AT NO LOAD LV kVRATED LINE CURRENT { HV A  
LV AGUARANTEED MAX { TOP OIL °C  
TEMPERATURE RISE WINDING °C  
REFERENCE AMBIENT °CIMPEDANCE VOLTAGE { TAP No. 1  
HV - LV TAP No. 13  
(ON 100 MVA BASE) TAP No. 17

IS, 2026/1977

ONAN	ONAF	OFAP
50000	70000	100000
50000	70000	100000

220	220	220
66	66	66

131.215	183.702	262.431
437.386	612.341	874.773

45		
55	60	60
40		

14.10 %		
14.93 %		
15.34 %		

NO. OF PHASES

FREQUENCY

VECTOR GROUP

INSULATION

LEVEL

CORE &amp; WINDING MASS

TANK &amp; FITTING MASS

MASS OF OIL

TOTAL MASS

TRANSPORT MASS (WITHOUT OIL)

VOLUME OF OIL

CORE WEIGHT

WINDING WEIGHT

DIAGRAM PLATE DRG. No.

MAKER'S SERIAL No.

YEAR OF MANUFACTURE

THREE

Hz

50

- YNyn0

HV	LI 1050 kV/AC 460 kVrms
HVn	LI 95 kV/AC 38 kVrms
LV	LI 350 kV/AC 160 kVrms
LVn	LI 95 kV/AC 38 kVrms

kg 67300

kg 35000

kg 43900

kg 146200

kg 84000

lit 49325

kg 48900

kg 18400

3/11/0106/R-

HT1438/11890

1999

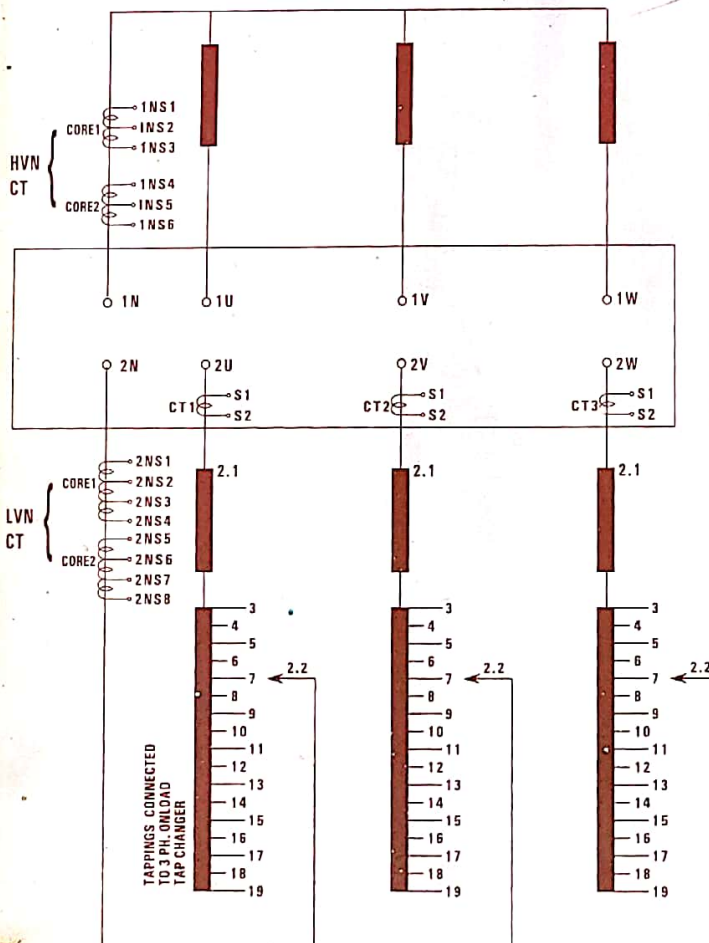
CUSTOMER'S REFERENCE

CUSTOMER

P.O.NO SP/1828/I/EMCO/1148 DTD. 8/9/1998

M/s. GUJARAT ELECTRICITY BOARD

3/11/0105/R0

**DIAGRAM OF CONNECTIONS****TAPS ON LV WINDING FOR LV VARIATION**

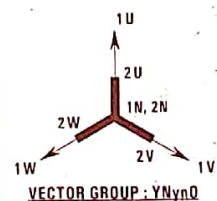
TAP POS. NO.	OLTC CONNECTION	HV LINE TERMINALS		LV LINE TERMINALS	
		VOLTAGE (VOLT)	CURRENT (AMPS)	VOLTAGE (VOLT)	CURRENT (AMPS)
1	2.2 - 19			75900	760.67
2	2.2 - 18			75075	769.03
3	2.2 - 17			74250	777.37
4	2.2 - 16			73425	786.31
5	2.2 - 15			72600	795.24
6	2.2 - 14			71775	804.38
7	2.2 - 13			70950	813.74
8	2.2 - 12			70125	823.31
9	2.2 - 11			69300	833.11
10	2.2 - 10			68475	843.15
11	2.2 - 9			67650	853.43
12	2.2 - 8			66825	863.97
13	2.2 - 7	220000	262.431	66000	874.77
14	2.2 - 6			65175	885.84
15	2.2 - 5			64350	897.20
16	2.2 - 4			63525	908.85
17	2.2 - 3			62700	920.81

**NEUTRAL C.T. DETAILS**

CT	CURRENT RATIO (AMPS)	CLASS	BURDEN (VA)	KNEE POINT VOLTAGE	Imag (mA)
HVN C.T	CORE1: 600 - 300 / 1 CORE2: 600 - 300 / 1	5P 20 PS	15 VA	600V & 300V	≤ 30 at V <sub>k</sub> /2
LVN C.T	CORE1: 1200 - 600 - 300 / 1 CORE2: 1200 - 600 - 300 / 1	5P 20 PS	15 VA	1200V, 600V & 300V	≤ 30 at V <sub>k</sub> /2

**WTI CT DETAILS**

CT	CURRENT RATIO (AMPS)	BURDEN (VA)	CLASS
CT1(U-PH)	920.8 / 1.8	10 VA	5
CT2(V-PH)	920.8 / 1.8	10 VA	5
CT3(W-PH)	920.8 / 1.8	10 VA	5



2/11/0106/R1