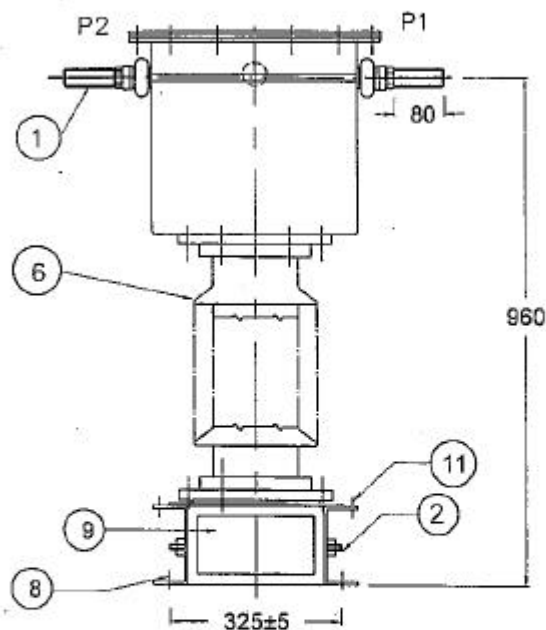
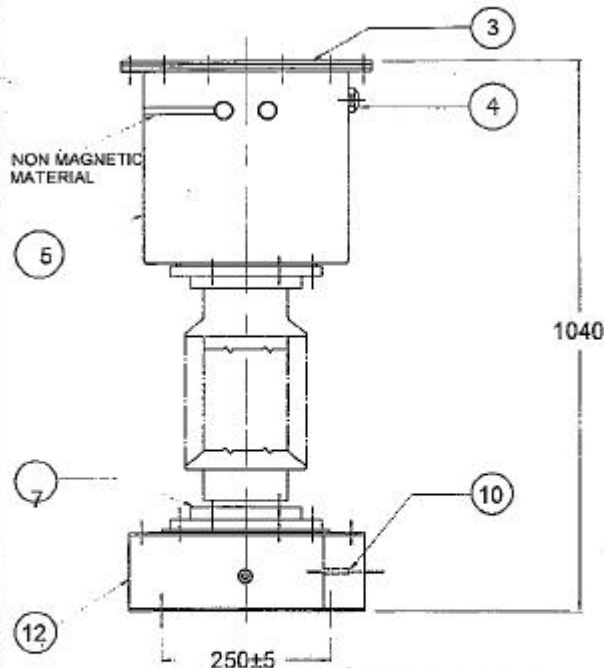
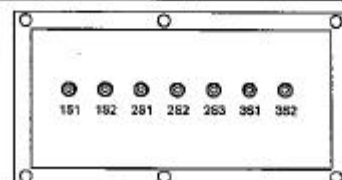




APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

SECONDARY TERMINAL ARRANGEMENT

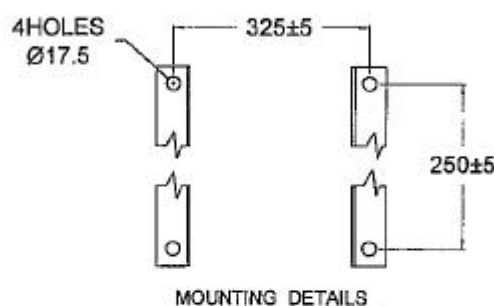
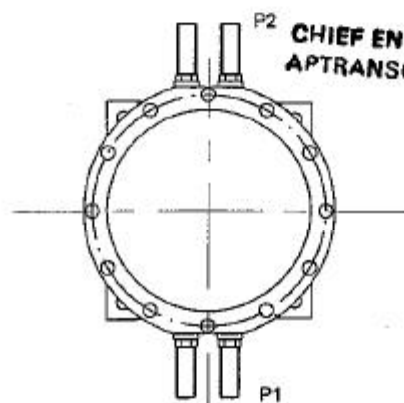


NOTE:-

- 1) WEIGHT OF THE OIL : 20±10%Kgs
- 2) TOTAL CREEPAGE DISTANCE : 900mm (NOM).
- 3) TANK FINISH : PAINTING
- 4) TOTAL WEIGHT : 90±10%Kgs
- 5) FERROUS HARDWARE EXPOSED TO AIR : HDG
- 6) MATERIAL : M.S. 3.125mm THICK

**CUSTOMER
RATIO**

**: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.
: 2000/1-0.5775-1A**



MOUNTING DETAILS

12.	BASE	MILD STEEL	1
11.	LIFTING HOLES		4
10.	SECONDARY TERMINAL BOX	MILD STEEL	1
9.	NAME RATING AND DIAGRAM PLATE	ALUMINIUM	1
8.	MOUNTING CHANNEL	MILD STEEL	4
7.	CLAMP FOR MAIN BUSHING	MILD STEEL	2
6.	MAIN BUSHING	PORCELAIN	1
5.	TOP TANK	MILD STEEL	1
4.	OIL LEVEL INDICATOR	ALUMINIUM	1
3.	TOP COVER	MILD STEEL	1
2.	EARTHING TERMINAL	MILD STEEL	2
1.	PRIMARY TERMINAL Ø30X80mm LONG	COPPER	4
S.No.	DESCRIPTION	MATERIAL	QTY.
BILL OF MATERIAL			

01.

CUSTOMER COMMENTS INCORPORATED

REV.No.

BRIEF DESCRIPTION

SIGN

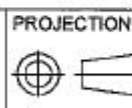
DATE



LAMCO

INDUSTRIES PRIVATE LIMITED
 B-38,39,40 SANATHNAGAR I.E,
 HYDERABAD 500018, A.P, INDIA.

TOLERANCE
±5%



DRAWN

CHECKED

APPRVD

Sudha

[Signature]

[Signature]

18/10/11

18/10/11

18/10/11

**ALL DIMENSIONS
ARE IN mm**

SCALE : NTS

DRAWING NUMBER
E1033132
 APTRANSCO

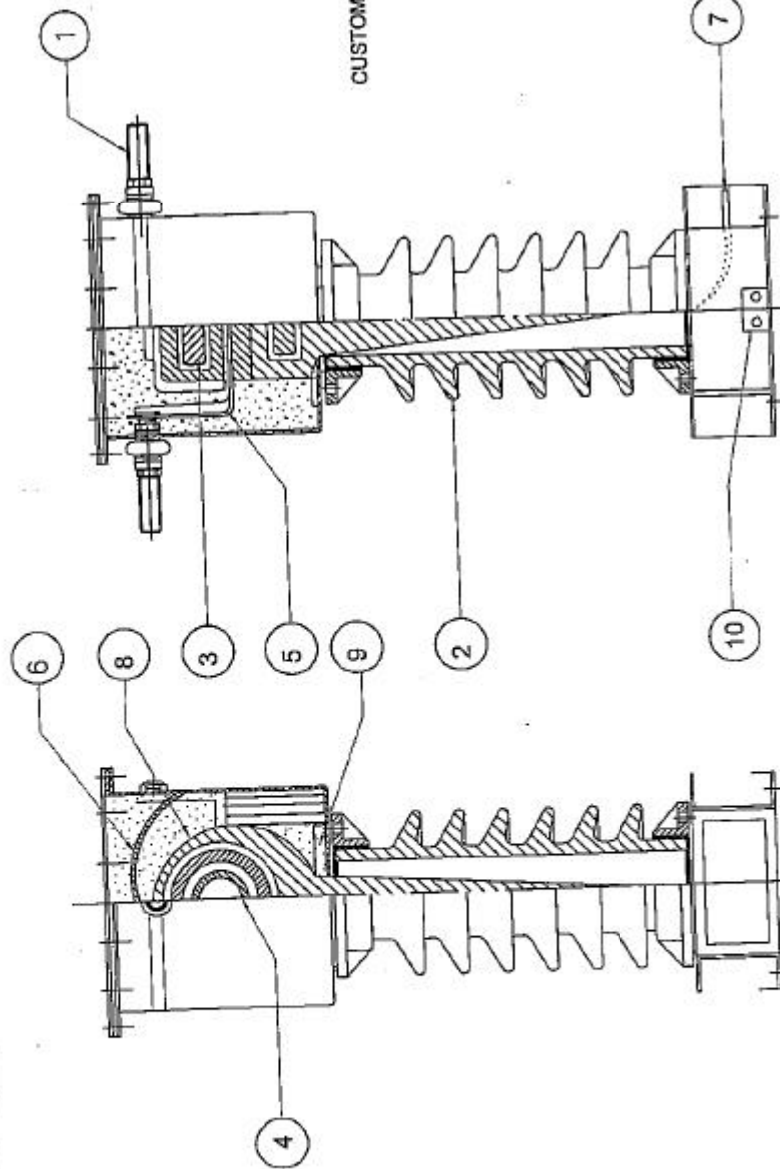
ISSUE-1
 REV-1

Standardised Drawing of 33 KV Current Transformer (Oil immersed, single phase, outdoor type) of Ratio 2000/1-0.5775-1A (M/s LAMCO make)

STD/GTP-DWG/Approval No. **206-14-Sheet1** Revision No. 0

Prepared & Approved during **October - 2011**





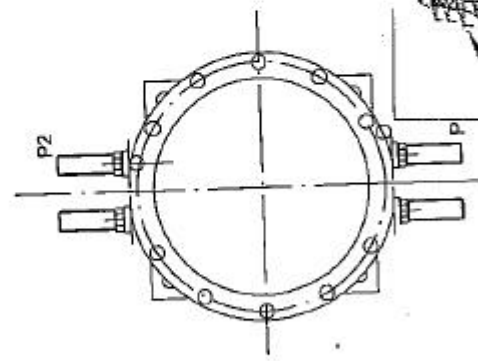
- NOTE:-
- 1) WEIGHT OF THE OIL : 20±10%Kgs
 - 2) TOTAL CREEPAGE DISTANCE : 900mm (NOM).
 - 3) TANK FINISH : PAINTING
 - 4) TOTAL WEIGHT : 100±10%Kgs
 - 5) REFERENCE STANDARD : IS-2705
 - 6) MATERIAL : M.S. 3.125mm THICK.

CUSTOMER: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.

10	EARTHING TERMINAL	MILD STEEL
9	PRESS BOARD RING	PRESS BOARD
8	SEC-PRIMARY INSULATION	KRAFT PAPER
7	SECONDARY TERMINAL	BRASS
6	FIXING CLAMP	MILD STEEL
5	PRIMARY WINDING	COPPER
4	SECONDARY WINDING	COPPER
3	CORE	CRGO
2	MAIN BUSHING	PORCELAIN
1	PRIMARY TERMINAL	COPPER
DESCRIPTION		MATERIAL
BILL OF MATERIAL		

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH Soudha/HYD.



REV. NO.	BRIEF DESCRIPTION	TOLERANCE	PROJECTION	DRAWN	SIGNATURE	DATE
				CHECKED	<i>[Signature]</i>	18/10/11
			SCALE: NTS	APPROVED	<i>[Signature]</i>	18/10/11
		ALL DIMENSIONS ARE IN mm			<i>[Signature]</i>	18/10/11
RRENT TRANSFORMER						ISSUE - 1
						REV - 0
						DRAWING NUMBER E 10330005A
						APTRANSCO

LAMCO

INDUSTRIES PRIVATE LIMITED,
 B-38, 39, 40, SANATHANAGAR I.E.,
 HYDERABAD-500018, A.P. INDIA.

Standardised sectional view Drawing of 33 KV Current
 Transformer of Ratio 2000 / 1-0.5775-1A (M/s LAMCO
 make)

STD/GTP-DWG/Approval No. 206-14-Sheet2 Revision No. 0

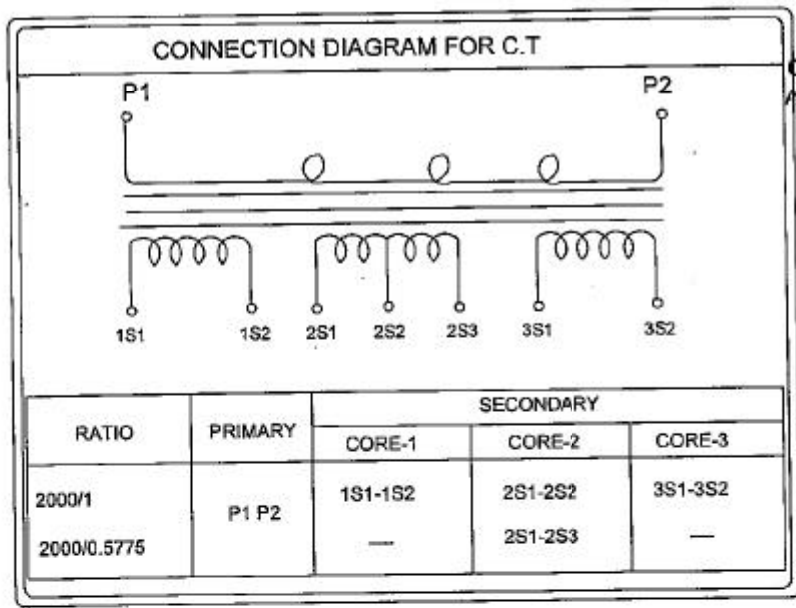


CURRENT TRANSFORMER			
RATIO	2000/1-0.5775-1A		
NSV	33KV	H.S.V	36 KV IL 70/170 KV
CORE	1	2	3 FREQ.50Hz
BURDEN	30VA	-	30 REF.STD.IS:2705
CLASS	5P10	PS	0.2 YEAR OF MFG:2011
S.T.C	25 KA/ 1.0sec	SL.No.	
I.DYNAMIC	62.5 KAP		
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.		
P.O.NO.			
RATIO (PS CORE)	2000/1 (CORE-2)	2000/0.5775 (CORE-2)	2000/1 (CORE-1)
SECONDARY RESISTANCE AT 75°C (Ohm)	≤15	≤30	≤10
MIN. KNEE POINT VOLTAGE ,Vk (VOLT)	≥40I(RCT+10)	≥40I(RCT+10)	—
MAX. EXCTN. CURRENT AT Vk (mA)	≤30	≤30	≤30

LAMCO INDUSTRIES PRIVATE LIMITED.
 B-38,39,40 SANATHNAGAR, I.E.
 HYDERABAD - 500 018, A.P., (INDIA)

APPROVED FOR TURNKEY PROJECTS

[Signature]
 CHIEF ENGINEER / CONSTRUCTION-1
 APTRANSCO/VIDYUTH SOUDHA/HYD.



CAUTION

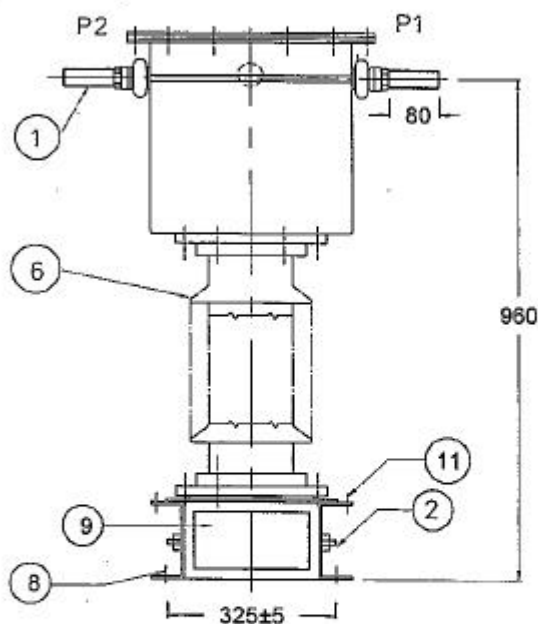
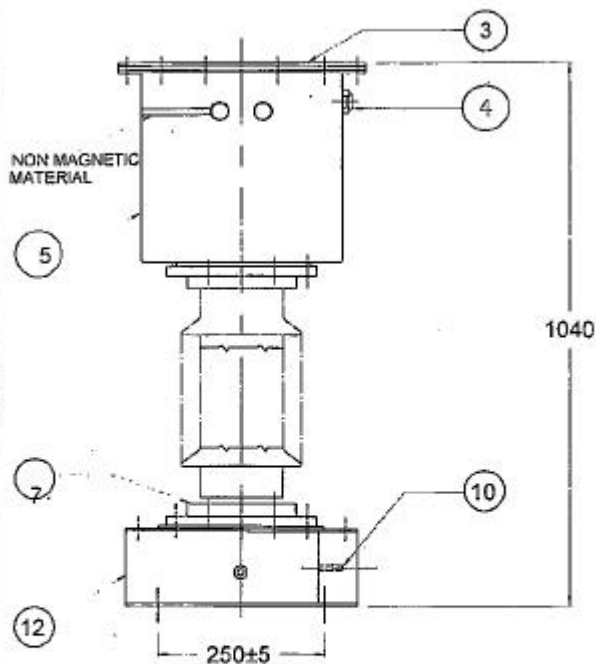
SECONDARY TERMINALS MUST
 BE SHORT CIRCUITED BEFORE
 THE BURDEN IS DISCONNECTED.

MATERIAL : 0.51mm ALUMINIUM SHEET

01.	CUSTOMER COMMENTS INCORPORATED				
REV.No.	BRIEF DESCRIPTION			SIGN	DATE
LAMCO INDUSTRIES PRIVATE LIMITED B-38,39,40 SANATHNAGAR I.E., HYDERABAD 500018, A.P., INDIA.	TOLERANCE	PROJECTION	DRAWN	<i>[Signature]</i>	18/10/11
	ALL DIMENSIONS ARE IN mm		CHECKED	<i>[Signature]</i>	18/10/11
			APPRVD	<i>[Signature]</i>	18/10/11
Standardised Name and connection Drawing of 33 KV Current Transformer of Ratio 2000/1-0.5775-1A (M/s LAMCO make) STD/GTP-DWG/Approval No. 206-14-Sheet3 Revision No. 0			DRAWING NUMBER E7033132 APTRANSCO		ISSUE-1 REV-1
Prepared & Approved during October - 2011					

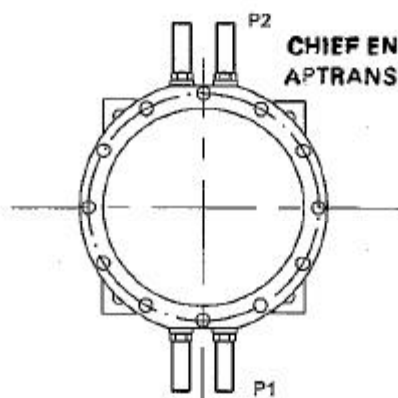


6

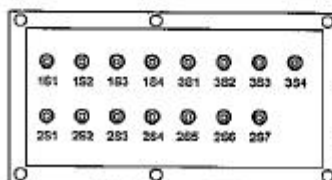


APPROVED FOR TURNKEY PROJECTS

SECONDARY TERMINAL ARRANGEMENT



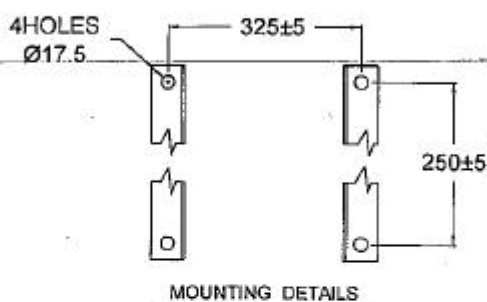
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.



NOTE:-

- 1) WEIGHT OF THE OIL : 20±10%Kgs
- 2) TOTAL CREEPAGE DISTANCE : 900mm (NOM).
- 3) TANK FINISH : PAINTING
- 4) TOTAL WEIGHT : 80±10%Kgs
- 5) FERROUS HARDWARE EXPOSED TO AIR : HDG
- 6) MATERIAL : M.S. 3.125mm THICK

CUSTOMER : M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.
RATIO : 1200-800-400/1-0.5775, 1-1A



MOUNTING DETAILS

12.	BASE	MILD STEEL	1
11.	LIFTING HOLES		4
10.	SECONDARY TERMINAL BOX	MILD STEEL	1
9.	NAME RATING AND DIAGRAM PLATE	ALUMINIUM	1
8.	MOUNTING CHANNEL	MILD STEEL	4
7.	CLAMP FOR MAIN BUSHING	MILD STEEL	2
6.	MAIN BUSHING	PORCELAIN	1
5.	TOP TANK	MILD STEEL	1
4.	OIL LEVEL INDICATOR	ALUMINIUM	1
3.	TOP COVER	MILD STEEL	1
2.	EARTHING TERMINAL	MILD STEEL	2
1.	PRIMARY TERMINAL Ø30X80mm LONG	COPPER	4
S.No.	DESCRIPTION	MATERIAL	QTY.
BILL OF MATERIAL			

01.

CUSTOMER COMMENTS INCORPORATED

REV.No.

BRIEF DESCRIPTION

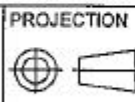
SIGN

DATE



LAMCO
INDUSTRIES PRIVATE LIMITED
B-38,39,40 SANATHNAGAR I.E.
HYDERABAD 500018, A.P, INDIA.

TOLERANCE
±5%



DRAWN

CHECKED

APPRVD

18/10/11
18/10/11
18/10/11

ALL DIMENSIONS
ARE IN mm

SCALE : NTS

Standardised Drawing of 33 KV Current Transformer (Oil immersed, single phase, outdoor type) of Ratio 1200-800-400/1-0.5775, 1-1A (M/s LAMCO make)

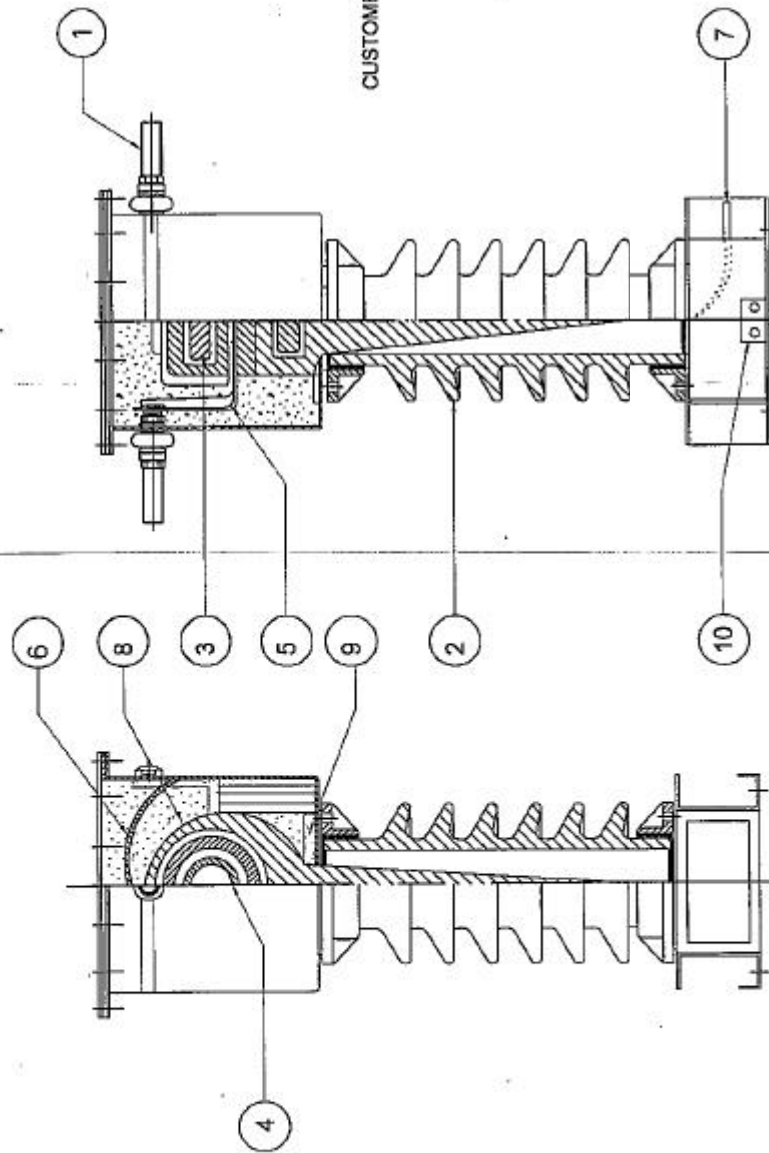
STD/GTP-DWG/Approval No. **206-16-Sheet1** Revision No. 0

Prepared & Approved during **October - 2011**

DRAWING NUMBER
E1033332
APTRANSCO

ISSUE-1
REV-1





NOTE:-

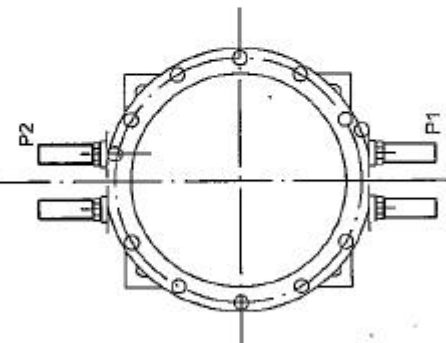
- 1) WEIGHT OF THE OIL : 20±10%Kgs
- 2) TOTAL CREEPAGE DISTANCE : 900mm (NOM).
- 3) TANK FINISH : PAINTING
- 4) TOTAL WEIGHT : 100±10%Kgs
- 5) REFERENCE STANDARD : IS-2705
- 6) MATERIAL : M.S. 3.125mm THICK

CUSTOMER: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.

S. NO	DESCRIPTION	MATERIAL
10	EARTHING TERMINAL	MILD STEEL
9	PRESS BOARD RING	PRESS BOARD
8	SEC-PRIMARY INSULATION	KRAFT PAPER
7	SECONDARY TERMINAL	BRASS
6	FIXING CLAMP	MILD STEEL
5	PRIMARY WINDING	COPPER
4	SECONDARY WINDING	COPPER
3	CORE	CRGO
2	MAIN BUSHING	PORCELAIN
1	PRIMARY TERMINAL	COPPER

APPROVED FOR TURNKEY / PROJECTS

CHIEF ENGINEER / CONSTRUCTION - I
A/P TRANSCO/VIDYUTH SOUDHA/HYD.



LAMCO INDUSTRIES PRIVATE LIMITED, B - 30/39, 40, SAMANT-NAGAR I.E., HYDERABAD-500018, A.P., INDIA.	BRIEF DESCRIPTION		SIGNATURE	DATE
	TOLERANCE	PROJECTION	DRAWN	18/10/11
ALL DIMENSIONS ARE IN mm	SCALE : NTS	CHECKED	18/10/11	
TITLE : SECTIONAL VIEW OF 33KV CURRENT TRANSFORMER			APPROVED	18/10/11
Drawing Number E 1033005A			ISSUE - 1 REV - 0	

Standardised sectional view Drawing of 33 KV Current Transformer of Ratio 1200-800-400/1-0.5775, 1-1A (M/s LAMCO make)

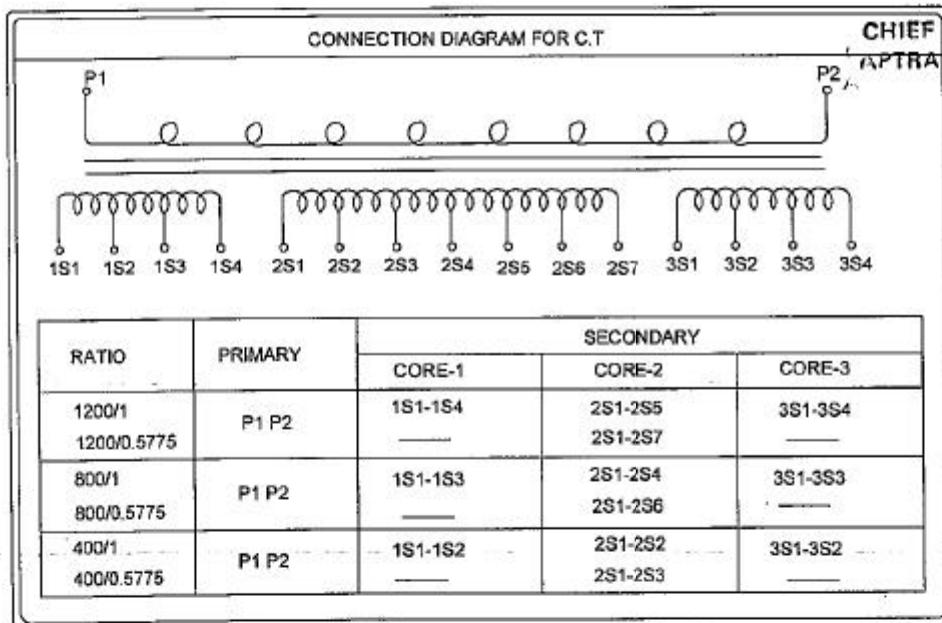


CURRENT TRANSFORMER			
RATIO	1200-800-400/1-0.5775 1-1 A		
NSV	33KV	H.S.V	36 KV
CORE	1	2	3
BURDEN	30VA	-	30VA
CLASS	5P10	PS	0.2
S.T.C	25 KA/ 1.0sec	SL.No.	
I.DYNAMIC	52.5 KAP		
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.		
P.O.NO.			
RATIO (PS CORE)	1200/1	1200/0.5775	
SECONDARY RESISTANCE AT 75°C (Ohm)	≤11	≤25	
MIN. KNEE POINT VOLTAGE, V _K (VOLT)	≥40I(RCT+10)	≥40I(RCT+10)	
MAX. EXCTN. CURRENT AT V _K (mA)	≤30	≤30	


LAMCO INDUSTRIES PRIVATE LIMITED.
 B-38,39,40 SANATHNAGAR, I.E.
 HYDERABAD - 500 018, A.P., (INDIA)

APPROVED FOR TURNKEY PROJECTS

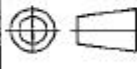
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

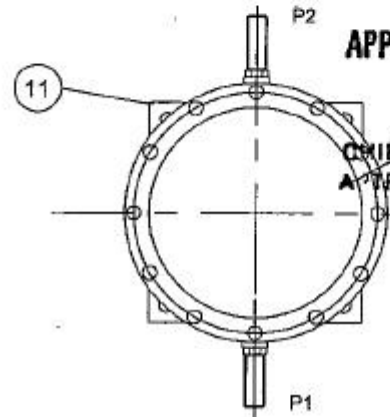
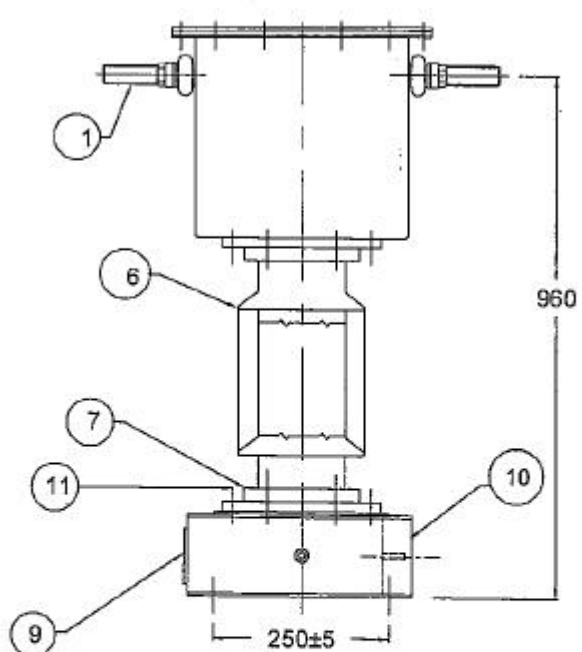
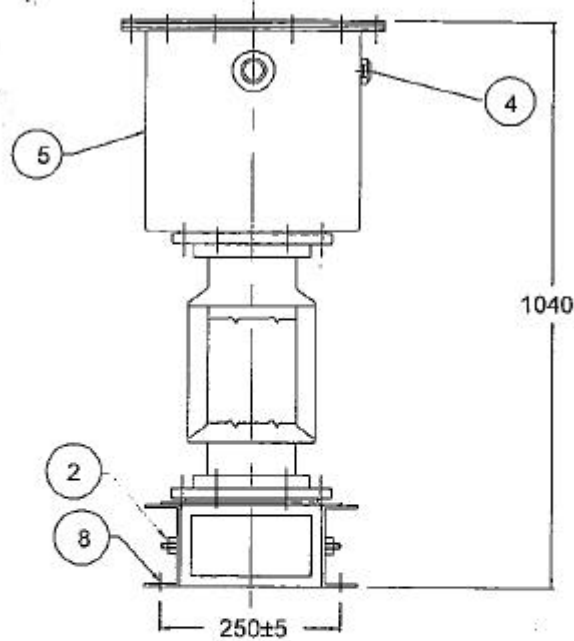


CAUTION

SECONDARY TERMINALS MUST
BE SHORT CIRCUITED BEFORE
THE BURDEN IS DISCONNECTED.

NOTE:
MATERIAL : ALUMINIUM SHEET.
THICKNESS : 0.51 (25 SWG)

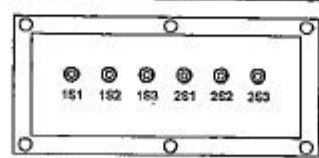
01. CUSTOMER COMMENTS INCORPORATED		BRIEF DESCRIPTION		SIGN	DATE
REV.No.		TOLERANCE	PROJECTION	DRAWN	
		±0.75		CHECKED	
		ALL DIMENSIONS ARE IN mm	SCALE : NTS	APPRVD	
 LAMCO INDUSTRIES PRIVATE LIMITED B-38,39,40 SANATHNAGAR I.E. HYDERABAD 500018, A.P, INDIA.					
NAME AND CONNECTION DIAGRAM PLATE Standardised Name and connection Drawing of 33 KV Current Transformer of Ratio 1200-800-400/1-0.5775, 1-1A (M/s LAMCO make) STD/GTP-DWG/Approval No. 206-16-Sheet3 Revision No. 0				DRAWING NUMBER E7033332 APTRANSCO	ISSUE-1 REV-1



APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD

SECONDARY TERMINAL ARRANGEMENT

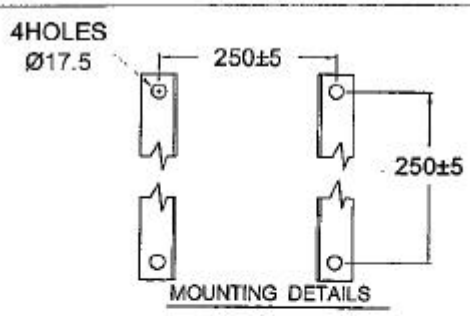


NOTE:-

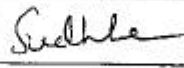
- 1) WEIGHT OF THE OIL : 20±10%Kgs
- 2) TOTAL CREEPAGE DISTANCE : 900mm (NOM).
- 3) TANK FINISH : PAINTING
- 4) TOTAL WEIGHT : 90±10%Kgs
- 5) FERROUS HARDWARE EXPOSED TO AIR : HDG
- 6) MATERIAL : M.S. 3.125mm THICK

CUSTOMER
RATIO

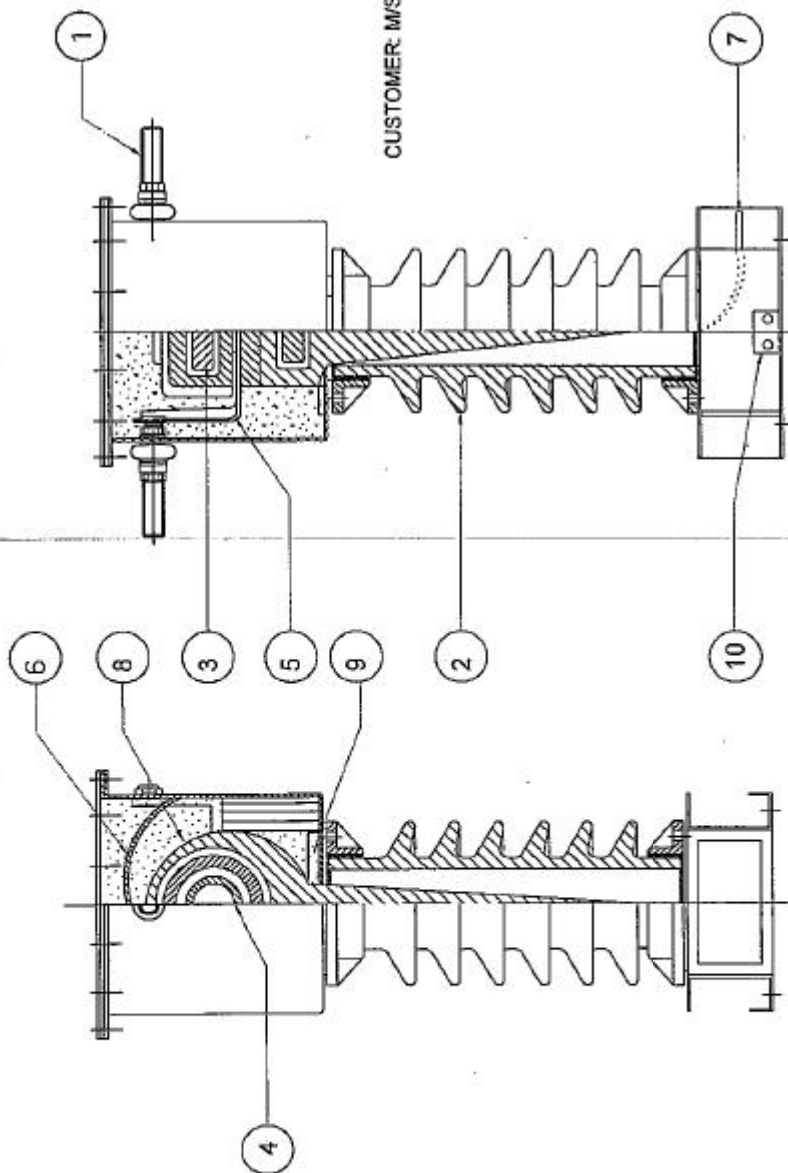
: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.
: 400-200/1-1A



12.	BASE	MILD STEEL	1
11.	LIFTING HOLES		4
10.	SECONDARY TERMINAL BOX	MILD STEEL	1
9.	NAME RATING AND DIAGRAM PLATE	ALUMINIUM	1
8.	MOUNTING CHANNEL	MILD STEEL	4
7.	CLAMP FOR MAIN BUSHING	MILD STEEL	2
6.	MAIN BUSHING	PORCELAIN	1
5.	TOP TANK	MILD STEEL	1
4.	OIL LEVEL INDICATOR	ALUMINIUM	1
3.	TOP COVER	MILD STEEL	1
2.	EARTHING TERMINAL	MILD STEEL	2
1.	PRIMARY TERMINAL Ø30X80mm LONG	COPPER	2
S.No.	DESCRIPTION	MATERIAL	QTY.
BILL OF MATERIAL			

01.	CUSTOMER COMMENTS INCORPORATED						
REV.No.	BRIEF DESCRIPTION				SIGN	DATE	
 LAMCO INDUSTRIES PRIVATE LIMITED B-38,39&40 SANATHNAGAR I.E, HYDERABAD 500018, A.P. INDIA.	TOLERANCE	PROJECTION	DRAWN		18/10/11		
	±5%		CHECKED				18/10/11
	ALL DIMENSIONS	SCALE: 1:100	APPRVD				18/10/11
Standardised Drawing of 33 KV Current Transformer (Oil immersed, single phase, outdoor type) of Ratio 400-200/1-1A (M/s LAMCO make) STD/GTP-DWG/Approval No. 206-12-Sheet1 Revision No. 0 Prepared & Approved during October - 2011				DRAWING NUMBER E 1033222 APTRANSCO ISSUE-1 REV-1			





NOTE:-

10	EARTHING TERMINAL	MILD STEEL
9	PRESS BOARD RING	PRESS BOARD
8	SEC-PRIMARY INSULATION	KRAFT PAPER
7	SECONDARY TERMINAL	BRASS
6	FIXING CLAMP	MILD STEEL
5	PRIMARY WINDING	COPPER
4	SECONDARY WINDING	COPPER
3	CORE	CRGO
2	MAIN BUSHING	PORCELAIN
1	PRIMARY TERMINAL	COPPER
S. NO	DESCRIPTION	MATERIAL
BILL OF MATERIAL		

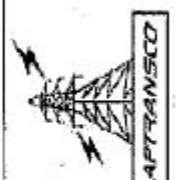
APPROVED FOR TURNKEY PROJECTS

DESCRIPTION		SIGNATURE		DATE	
TOLERANCE	PROJECTION	DRAWN		18/10/11	
—		CHECKED		18/10/11	
ALL DIMENSIONS ARE IN mm	SCALE : NTS	APPROVED		18/10/11	
CURRENT TRANSFORMER				DRAWING NUMBER	
				E 1033005 AP/TRANSFO	
				ISSUE - 1	
				REV - 0	

Standardised sectional view Drawing of 33 KV Current Transformer of Ratio 400-200/1-1A (M/s LAMCO make)

STD/GTP-DWG/Approval No. 206-12-Sheet2 Revision No. 0

Prepared & Approved during October – 2011



CURRENT TRANSFORMER

RATIO	400-200/1-1 A		
NSV	33 KV	H.S.V	36 KV IL 70/170 KV
CORE	1	2	FREQ. 50Hz
BURDEN	30VA	30VA	REF. STD. IS: 2705
CLASS	5P10	0.2	YEAR OF MFG: 2011
S.T.C	25 KA/ 1.0sec	SL.No.	
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED		
P.O.NO.			

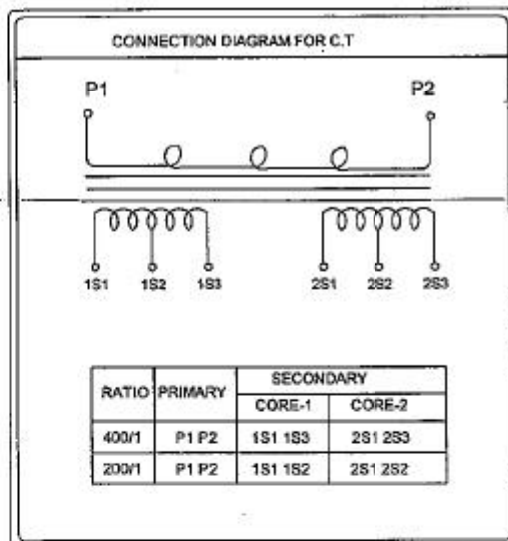
RATIO (PS CORE)	400/1A (CORE-1&2)
SECONDARY RESISTANCE AT 75°C (Ohm)	≤5.0
MIN. KNEE POINT VOLTAGE, V _k (VOLT)	—
MAX. EXCTN. CURRENT AT ☐ V _k (mA)	≤25



LAMCO INDUSTRIES PRIVATE LIMITED.
B-38,39,40 SANATHNAGAR, I.E.
HYDERABAD - 500 018, A.P., (INDIA)

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD

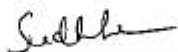
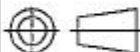


CAUTION

SECONDARY TERMINALS MUST
BE SHORT CIRCUITED BEFORE
THE BURDEN IS DISCONNECTED.

NOTE:

MATERIAL : ALUMINIUM SHEET.
THICKNESS : 0.51 (25 SWG)

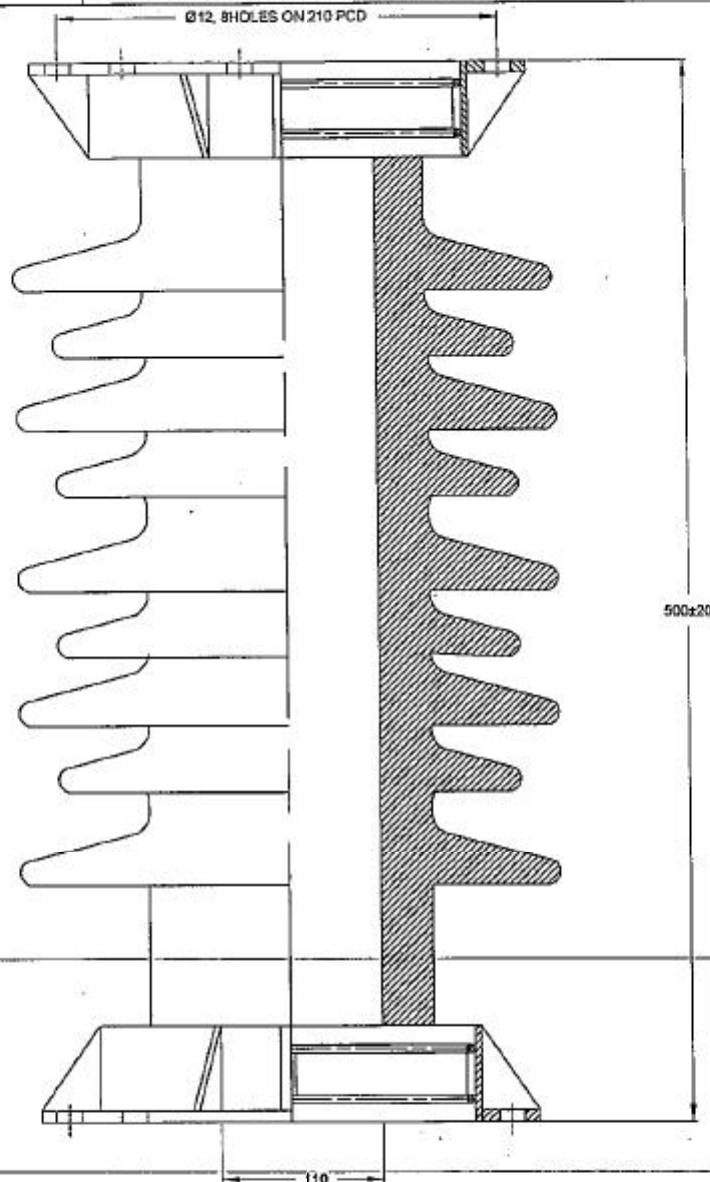
01.	CUSTOMER COMMENTS INCORPORATED				
REV.No.	BRIEF DESCRIPTION			SIGN	DATE
 LAMCO INDUSTRIES PRIVATE LIMITED B-38,39,40 SANATHNAGAR I.E, HYDERABAD 500018, A.P, INDIA.	TOLERANCE	PROJECTION	DRAWN		18/10/11
	±0.75		CHECKED		18/10/11
	ALL DIMENSIONS ARE IN mm	SCALE : NTS	APPRVD		18/10/11
	Standardised Name and connection Drawing of 33 KV Current Transformer of Ratio 400-200/ 1-1A (M/s LAMCO make)			DRAWING NUMBER	ISSUE-1
	STD/GTP-DWG/Approval No. 206-12-Sheet3 Revision No. <u>0</u>			E7033222 APTRANSCO	REV-1
	Prepared & Approved during October – 2011				



Standardised Porcelain housing Drawing of 33 KV
Current Transformer (M/s LAMCO make)

STD/GTP-DWG/Approval No. 206-17 Revision No. 0

Prepared & Approved during **October - 2011**



CUSTOMER: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

NOTE :
MECHANICAL LOAD - 2000N
ELECTRICAL PEAK - 170KV
TOTAL CREEPAGE DISTANCE - 900 mm
GLAZE : DARK BROWN
BORE : STRAIGHT AND UNIFORM
APPLICABLE STANDARD : IS 5621 - 1080

REV. No.	BREIF DESCRIPTION	SIGNATURE	DATE
 LAMCO INDUSTRIES PRIVATE LIMITED, B - 38,39,40, SANATHNAGAR I.E., HYDERABAD-500018, A.P, INDIA.	TOLERANCE	PROJECTION	DRAWN
	±5		CHECKED
	ALL DIMENSIONS ARE IN mm	SCALE : NTS	APPROVED
TITLE :		DRAWING NUMBER	ISSUE - 1
33KV CT PORCELAIN HOUSING		E 7033001 APTRANSCO	REV - 0

GUARANTEED TECHNICAL PARTICULARS FOR 33KV CURRENT TRANSFORMER			
RATIO : 2000/1-0.5775-1A			
Sl. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		LIVE TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		LAMCO INDUSTRIES, HYDERABAD
4	COUNTRY OF ORIGIN		INDIA
5	CONFORMING TO STANDARD		IS:2705/IEC:185
	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :- - DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	960
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.81
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
6	RATED PRIMARY VOLTAGE	KVrms	33
7	RATED HIGHEST VOLTAGE	KVrms	36
8	RATED FREQUENCY	Hz	50
9	RATED PRIMARY CURRENT	Amps	2000
10	RATED SECONDARY CURRENT	Amps	1,0.5775
11	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
12	TYPE OF INSULATION		CLASS - A
13	SIESMIC ACCELERATION	g	0.3, 0.5
14	RIV AT 1.1×RATED VOLTAGE	micro Volt	< 500
15	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
16	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
17	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
18	PORCELAIN HOUSING & IT'S MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/JSI/WSI/ANY STD MAKE
19	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
20	INSTRUMENT SECURITY FACTOR (ASPER C.4.10)		--
21	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
22	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
23	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	Pc	< 10
24	RATED SHORT TIME W _t AND CURRENT FOR 1 SEC DURATION	Karms	25
25	RATED DYNAMIC WITH S _c AND CURRENT	Ap	62.5

RATIO : 2000/1-0.5775-1A					
26	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT		
27	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	170		
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	70		
29	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3		
30 a)	MINIMUM TOTAL CREEPAGE DISTANCE	mm	900		
b)	PROTECTED CREEPAGE DISTANCE		40% OF TOTAL CREEPAGE		
31	DETAILS OF CORE		CORE-1	CORE-2	CORE-3
31.1	CURRENT RATIOS	Amps	2000/1	2000/0.5775	2000/1
31.2	OUT PUT BURDEN	VA	30	--	30
31.3	CLASS OF ACCURACY	%	5P	PS	0.2
31.4	ACCURACY LIMIT FACTOR		10	--	--
31.5	MIN. KNEE POINT VOLTAGE AT 2000/1A, 2000/0.5775A	KVp	--	$\geq 40(I_{RT}+10)$	--
31.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT		≤ 10	$\leq 15, 30$	--
31.7	MAX. EXCITING CURRENT AT 100% KPV	mA	≤ 30	≤ 30	--
31.8	APPLICATION		PROT	DIFF/PROT	METERING
32	WEIGHT OF OIL	Kg	20 $\pm$ 10%		
33	TOTAL WEIGHT OF CT	Kg	90 $\pm$ 10%		
34	MOUNTING DETAILS	mm	325 $\times$ 250		
35	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING		
36	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)				
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED		
	b) MAGNETISATION CURVE		ENCLOSED		
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED		
37	CORE				
a)	CORE AREA OF CROSS SECTION		AS PER DESIGN		
b)	FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000		
38.	The type test should have been conducted not earlier than 5 years in the standard lab for LAMCO INDUSTRIES PVT. LTD. Party laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.				
IN-CHARGE (D&D)		HOD (B.D)			
DATE: 18/10/11.		DATE:			
PAGE 2 OF 2					

PAGE 2 OF 2

39. Quality of material & applicable standard. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

	Standardised Guaranteed Technical Particulars for 33 KV
	Current Transformer of Ratio 2000/1-0.5775-1A
	M/s LAMCO make)
STD/GTP-DWG/Approval No. 206-13 Revision No. 0	
Prepared & Approved during October - 2011	

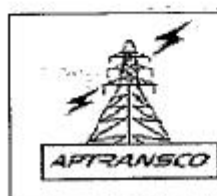
GUARANTEED TECHNICAL PARTICULARS FOR 33KV CURRENT TRANSFORMER			
RATIO : 1200/800/400/1/0.5775/1-1A			
Sl. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		LIVE TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		LAMCO INDUSTRIES, HYDERABAD
4	COUNTRY OF ORIGIN		INDIA
5	CONFORMING TO STANDARD		IS:2705/IEC:185
6	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :-		
	- DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	576
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.81
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
7	RATED PRIMARY VOLTAGE	KVrms	33
8	RATED HIGHEST VOLTAGE	KVrms	36
9	RATED FREQUENCY	Hz	50
10	RATED PRIMARY CURRENT	Amps	1200-800-400
11	RATED SECONDARY CURRENT	Amps	1,0.5775
12	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
13	TYPE OF INSULATION		CLASS - A
14	SIESMIC ACCELERATION	g	0.3, 0.5
15	RIV AT 1.1xRATED VOLTAGE	micro Volt	< 500
16	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
17	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
18	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
19	PORCELAIN HOUSING & ITS MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/ISI/WSI/ANY STD MAKE
20	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
21	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
22	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
23	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	pC	< 10
24	RATED SHORT TIME WITH STAND CURRENT FOR 1 SEC DURATION	KArms	25
25	RATED DYNAMIC WITH STAND CURRENT	KAp	62.5

RATIO: 1200-800-400/1-0.5775, 1-1A					
26	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT		
27	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	170		
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	70		
29	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3		
30	MINIMUM TOTAL CREEPAGE DISTANCE	mm	900		
31	DETAILS OF CORE		CORE-1	CORE-2	CORE-3
31.1	CURRENT RATIOS	Amps	1200-800-400/1	1200-800-400/0.5775, 1	1200-800-400/1
31.2	OUT PUT BURDEN	VA	30	--	30
31.3	CLASS OF ACCURACY	%	5P	PS	0.2
31.4	ACCURACY LIMIT FACTOR		10	--	--
31.5	MIN. KNEE POINT VOLTAGE AT 1200/1A, 1200/0.5775A	KVp	--	≥40(RCT+10)	--
31.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT		--	≤11,25	--
31.7	MAX. EXCITING CURRENT AT 100% KVP	mA	--	≤30	--
31.8	APPLICATION		PROT	DIFF/PROT	METERING
31.9	CORE AREA OF CROSS SECTION		AS PER DESIGN		
31.10	FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000		
32	WEIGHT OF OIL	Kg	20±10%		
33	TOTAL WEIGHT OF CT	Kg	90±10%		
34	MOUNTING DETAILS	mm	325×250		
35	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING		
36	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)				
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED		
	b) MAGNETISATION CURVE		ENCLOSED		
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED		
37.	The type tests should have been conducted not earlier than 5 years in the standard third party laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.				
FOR LAMCO INDUSTRIES PVT. LTD.					
IN-CHARGE (D&D)			HOD (B.D)		
DATE: 18/10/11			DATE:		

PAGE 2 OF 2

38. Quality of material & applicable standard. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

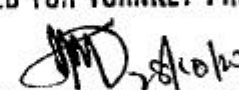


Standardised Guaranteed Technical Particulars for 33 KV
Current Transformer of Ratio 1200-800-400/1-0.5775, 1-
1A (M/s LAMCO make)
STD/GTP-DWG/Approval No. 206-15 Revision No. 0
Prepared & Approved during October - 2011

GUARANTEED TECHNICAL PARTICULARS FOR 33KV CURRENT TRANSFORMER			
RATIO: 400-200/1-1A			
Sl. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		LIVE TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		LAMCO INDUSTRIES, HYDERABAD
4	COUNTRY OF ORIGIN		INDIA
5	CONFORMING TO STANDARD		IS:2705/IEC:185
6	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :-		
	- DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	210
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.81
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
7	RATED PRIMARY VOLTAGE	KVrms	33
8	RATED HIGHEST VOLTAGE	KVrms	36
9	RATED FREQUENCY	Hz	50
10	RATED PRIMARY CURRENT	Amps	400-200
11	RATED SECONDARY CURRENT	Amps	1
12	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
13	TYPE OF INSULATION		CLASS - A
14	SEISMIC ACCELERATION	g	0.3, 0.5
15	RIV AT 1.1xRATED VOLTAGE	micro Volt	< 500
16	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
17	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
18	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
19	PORCELAIN HOUSING & IT'S MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/JSI/WSU/ANY STD MAKE
20	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
21	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
22	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
23	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	pC	< 10
24	RATED SHORT TIME WITH STAND CURRENT FOR 1 SEC DURATION	KArms	25
25	RATED DYNAMIC WITH STAND CURRENT	KAp	62.5

RATIO : 400-200/1-1A				
26	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT	
27	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	170	
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	70	
29	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3	
30	MINIMUM TOTAL CREEPAGE DISTANCE	mm	900	
31	DETAILS OF CORE		CORE 1	CORE 2
31.1	CURRENT RATIOS	Amps	400-200/1	400-200/1
31.2	OUT PUT BURDEN	VA	30	30
31.3	CLASS OF ACCURACY	%	5P	0.2
31.4	ACCURACY LIMIT FACTOR		10	--
31.5	MIN. KNEE POINT VOLTAGE	KVp	--	--
31.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT		≤5.0	≤5.0
31.7	MAX. EXCITING CURRENT AT 100% KVP	mA	≤25	≤25
31.8	APPLICATION		PROT	METERING
31.9	CORE AREA OF CROSS SECTION		AS PER DESIGN	
31.10	FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000	
32	WEIGHT OF OIL	Kg	20±10%	
33	TOTAL WEIGHT OF CT	Kg	90±10%	
34	MOUNTING DETAILS	mm	250×250	
35	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING	
36	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)			
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED	
	b) MAGNETISATION CURVE		ENCLOSED	
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED	
37.	The type tests should have been conducted not earlier than 5 years in the standardised third party laboratory. The Manufacturer shall produce the type test reports at the time of acceptance test			
FOR LAMCO INDUSTRIES PVT. LTD.				
CPS				
IN-CHARGE (D&D)		HOD (B.D)		
DATE: 18/10/11.		DATE:		
PAGE 2 OF 2				

38. Quality of material & applicable standard. The Manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYO.

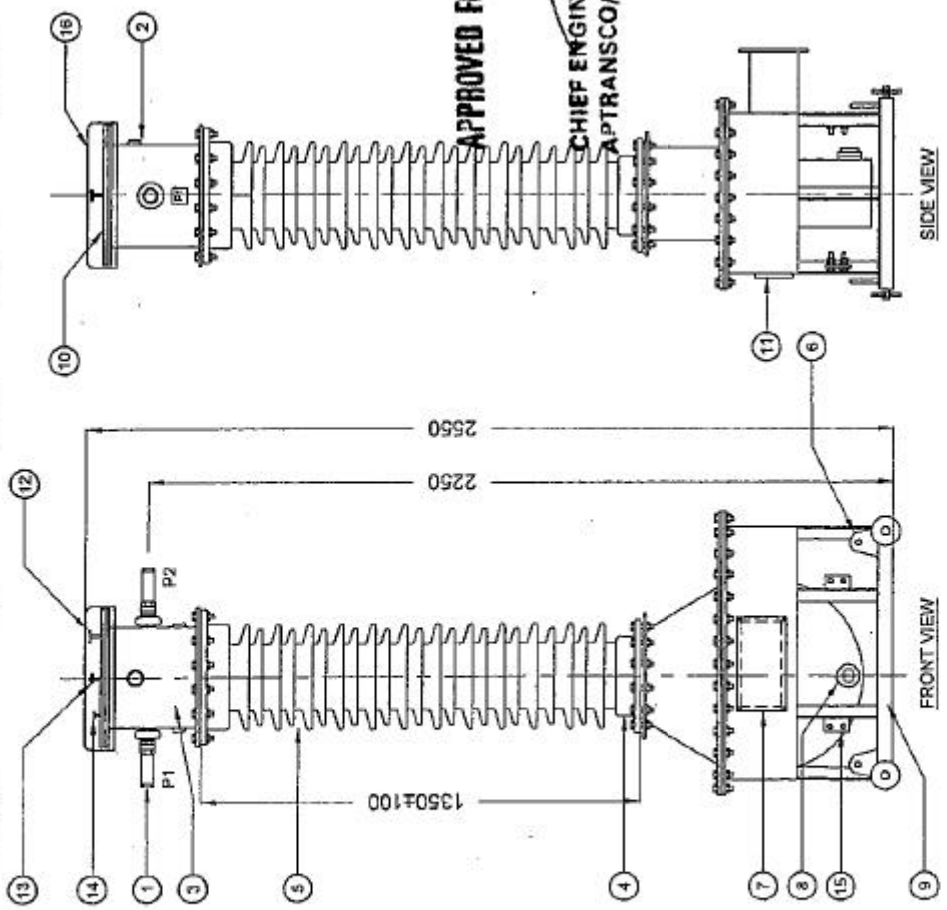
	Standardised Guaranteed Technical Particulars for 33 KV Current Transformer of Ratio 400-200/1-1A (M/s LAMCO make)
	STD/GTP-DWG/Approval No. 206-11 Revision No. 0
	Prepared & Approved during October - 2011

- NOTE:
1. WEIGHT OF OIL : 115±10%Kgs.
 2. TOTAL WEIGHT : 450±10%Kgs.
 3. TOTAL CREPAGE DISTANCE : 3525 mm (Nom)
 4. TANK FINISH : PAINTING
 5. REF. STANDARD : IS-2705 - 1992
 6. MATERIAL OF CORE : CRGO SILICON STEEL
 7. POWER FACTOR TESTING TERMINAL WILL BE PROVIDED IN THE TERMINAL BOX
 8. THE CTs ARE HERMETICALLY SEALED
 9. MATERIAL : M.S. 3.125mm THICK.

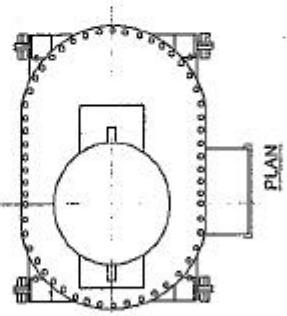
CUSTOMER RATIO : M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.
 : 600-300/1-1-1A
 : 800-500/1-0.5775,0.66,1-1A
 : 300-200-100/1-0.5775,1-1A

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION
 APTRANSCO/VIDYUTH SODHANA



MOUNTING HOLES - Ø25 (04 Nos)

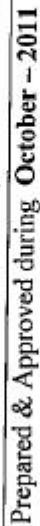


SL. NO	DESCRIPTION	MATERIAL	QTY
1	PRIMARY TERMINAL (Ø30×80mm)	COPPER	2
2	OIL LEVEL INDICATOR	ALUMINIUM	1
3	TOP TANK	MILD STEEL	1
4	BUSHING FIXING CLAMP	MCJM S	2
5	MAIN BUSHING	PORCELAIN	1
6	LIFTING LUGS	MILD STEEL	4
7	SECONDARY TERMINAL BOX	MILD STEEL	1
8	OIL DRAIN PLUG	MILD STEEL	4
9	BASE CHANNEL	MILD STEEL	1
10	TOP COVER	ALUMINIUM	1
11	NAME PLATE	BRASS	1
12	PRESSURE RELIEF DEVICE	BRASS	1
13	NITROGEN FILLING VALVE	MILD STEEL	1
14	OIL FILLING PLUG	MILD STEEL	2
15	EARTHING TERMINAL	MILD STEEL	1
16	SOME COVER	MILD STEEL	1

REV. No.	BRIEF DESCRIPTION	PROJECTION	DRAWN	SIGNATURE	DATE
1	LAMCO INDUSTRIES PRIVATE LIMITED, B-39, 39/40, SARATHANAGAR, I.E. Standardised Drawing of 132 KV Current Transformer (Oil immersed, single phase, outdoor type) of Ratio 600-300/1-1-1A, 300-200-100/1-0.5775, 1-1A, 800-500/1-0.5775, 0.66, 1-1A (M/s LAMCO make)	25%	CHECKED	S. S. S.	18/10/11
2					18/10/11
3					18/10/11
4					18/10/11
5					18/10/11
6					18/10/11
7					18/10/11
8					18/10/11
9					18/10/11
10					18/10/11
11					18/10/11
12					18/10/11
13					18/10/11
14					18/10/11
15					18/10/11
16					18/10/11
17					18/10/11
18					18/10/11
19					18/10/11
20					18/10/11
21					18/10/11
22					18/10/11
23					18/10/11
24					18/10/11
25					18/10/11
26					18/10/11
27					18/10/11
28					18/10/11
29					18/10/11
30					18/10/11
31					18/10/11
32					18/10/11
33					18/10/11
34					18/10/11
35					18/10/11
36					18/10/11
37					18/10/11
38					18/10/11
39					18/10/11
40					18/10/11
41					18/10/11
42					18/10/11
43					18/10/11
44					18/10/11
45					18/10/11
46					18/10/11
47					18/10/11
48					18/10/11
49					18/10/11
50					18/10/11
51					18/10/11
52					18/10/11
53					18/10/11
54					18/10/11
55					18/10/11
56					18/10/11
57					18/10/11
58					18/10/11
59					18/10/11
60					18/10/11
61					18/10/11
62					18/10/11
63					18/10/11
64					18/10/11
65					18/10/11
66					18/10/11
67					18/10/11
68					18/10/11
69					18/10/11
70					18/10/11
71					18/10/11
72					18/10/11
73					18/10/11
74					18/10/11
75					18/10/11
76					18/10/11
77					18/10/11
78					18/10/11
79					18/10/11
80					18/10/11
81					18/10/11
82					18/10/11
83					18/10/11
84					18/10/11
85					18/10/11
86					18/10/11
87					18/10/11
88					18/10/11
89					18/10/11
90					18/10/11
91					18/10/11
92					18/10/11
93					18/10/11
94					18/10/11
95					18/10/11
96					18/10/11
97					18/10/11
98					18/10/11
99					18/10/11
100					18/10/11

APTRANSCO

Prepared & Approved during October - 2011

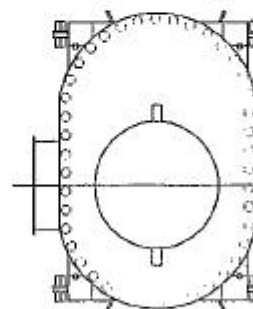


: 800-500/1-0.5775, 0.66, 1-1A
: 300-200-100/1-0.5775, 1-1A

CHIEF ENGINEER / CONSTRUCTION-1
CAPTRANSO/VIDYUTH Soudh A/HYD

S.No.	DESCRIPTION	QTY	UNIT	REMARKS
1.	PRIMARY TERMINAL Ø30X80mm			COPPER MATERIAL
2.	MAIN BUSHING			PORCELAIN
3.	CORE			COPPER
4.	SECONDARY WINDING			COPPER
5.	PRIMARY WINDING			COPPER
6.	SEC.PRIMARY INSULATION			KRAFT PAPER
7.	P.F.LEAD			COPPER
8.	OIL			

REV No.	BRIEF DESCRIPTION			SIGN	DATE
 LAMCO INDUSTRIES PRIVATE LIMITED B-30, P.O. SARATHI-MARGAUE, HYDERABAD 500018, A.P. INDIA.	TOLERANCE		PROJECTION	DRAWN	18/10/11 18/10/11 18/10/11
	±0.5%			CHECKED	
	ALL DIMENSIONS ARE IN MM		SCALE : NTS	APPROVED	
132KV CURRENT TRANSFORMER SECTION VIEW (OIL IMMERSED SINGLE PHASE)					
TITLE				DRAWING NUMBER	ISSUE:-1
				E 1132000	
				APPROVED	REVQ

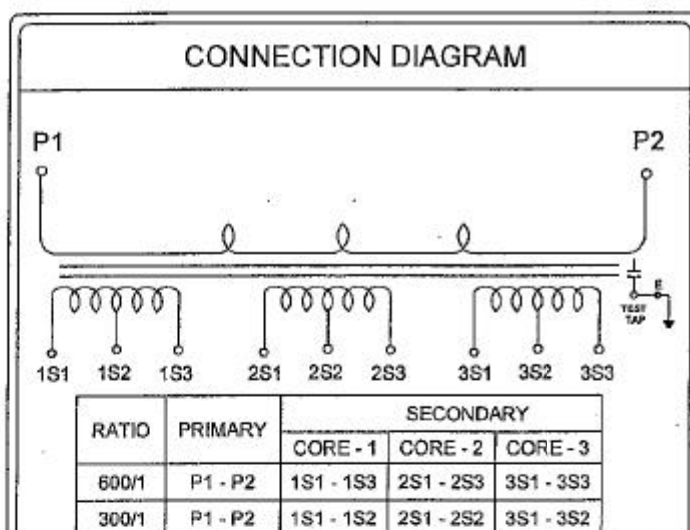


PLAN

CURRENT TRANSFORMER				
RATIO	600-300/1-1-1 A			
N.S.V.	132 KV	H.S.V.	145 KV	I.L. 275/650 KV
CORE	1	2	3	FREQUENCY : 50 Hz
BURDEN	20VA	—	20VA	REF. STD. : IS-2705
CLASS	5P20	PS	0.2	YEAR OF MFG : 2011
S.T.C	31.5 KA FOR 1.0 Sec.		Sl. No.	
I.DYNAMIC	78.75 KAP			
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.			
P.O.NO.				
RATIO (PS CORE)		(CORE-2)	AT 600/1A	
SECONDARY RESISTANCE AT 75°C		(Ohm)	≤ 5	
MIN. KNEE POINT VOLTAGE, V _k		(VOLT)	≥ 60I/(R _{CT} +10)	
MAX. EXCTN. CURRENT AT V _k		(mA)	≤ 30	
 LAMCO INDUSTRIES PRIVATE LIMITED. B-38,39&40 I.E.HYDERABAD-500 018,A.P.,(INDIA)				

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
 APTRANSCO/VIDYUTH SOUDHA/HYD



CAUTION

SECONDARY TERMINALS MUST BE SHORT CIRCUITED BEFORE THE BURDEN IS DISCONNECTED

CAUTION

TEST TAP MUST BE SOLIDLY EARTHED BEFORE ENERGISING THE CTs



Standardised Name and Connection Drawing of 132 KV
 Current Transformer of Ratio 600-300/1-1-1A
 (M/s LAMCO make)

STD/GTP-DWG/Approval No. **206-6-Sheet3** Revision No. 0

MATERIAL : 0.51mm ALU. SHEET

Prepared & Approved during **October - 2011**

CUSTOMER COMMENTS INCORPORATED

REV. NO.	BRIEF DESCRIPTION			SIGNATURE	DATE
01.	NAME AND CONNECTION DIAGRAM				
 LAMCO INDUSTRIES PRIVATE LIMITED, B - 38,39,40, SANATHNAGAR I.E, HYDERABAD-500018, A.P, INDIA.	TOLERANCE	PROJECTION	DRAWN	<i>[Signature]</i>	18/10/11
	ALL DIMENSIONS ARE IN mm	SCALE : NTS	CHECKED	<i>[Signature]</i>	18/10/11
			APPROVED	<i>[Signature]</i>	18/10/11
TITLE			DRAWING NUMBER	ISSUE - 1	
			E 7132232 APTRANSCO	REV - 1	

CURRENT TRANSFORMER

RATIO	800-500/1-0.5775, 0.66, 1-1 A		
NSV	132 KV	H.S.V	145 KV
CORE	1	2	3
BURDEN	20VA	—	20VA
CLASS	5P20	PS	0.2
S.T.C	31.5 KA	1.0sec	SL.No.
I.DYNAMIC	78.75 KA		
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.		
P.O.NO.			

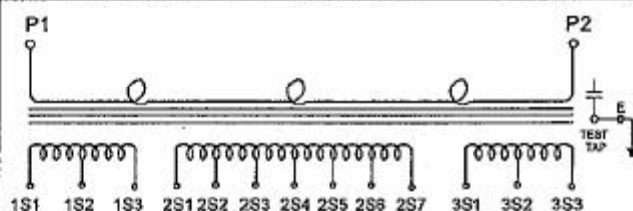
RATIO (PS CORE)	(CORE-2)	800/0.5775, 0.66, 1
MAX. SECONDARY RESISTANCE AT 75°C	(Ohm)	≤5
MIN. KNEE POINT VOLTAGE, V _k	(VOLT)	≥40(I _{CT} +10)
MAX. EXCTN. CURREN AT	V _k (mA)	≤30



LAMCO INDUSTRIES PRIVATE LTD.
B-38, 39&40, J.E, SANATHNAGAR
HYDERABAD - 500 018, A.P., (INDIA)

APPROVED FOR TURNKEY PROJECTS
28/10/2011
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

CONNECTION DIAGRAM FOR C.T



RATIO	PRIMARY	SECONDARY		
		CORE-1	CORE-2	CORE-3
800/1	P1-P2	1S1-1S3	2S1-2S4	3S1-3S3
800/0.5775		—	2S1-2S7	—
800/0.66		—	2S1-2S6	—
500/1	P1-P2	1S1-1S2	2S1-2S2	3S1-3S2
500/0.5775		—	2S1-2S5	—
500/0.66		—	2S1-2S3	—

CAUTION

SECONDARY TERMINALS MUST
BE SHORT CIRCUITED BEFORE
THE BURDEN IS DISCONNECTED

CAUTION

TEST TAP MUST BE SOLIDLY
EARTHED BEFORE ENERGISING
THE CTs



Standardised Name and Connection Drawing of 132 KV
Current Transformer of Ratio 800-500/1-0.5775, 0.66, 1-1A
(M/s LAMCO make)

STD/GTP-DWG/Approval No. **206-8** Revision No. **0**

Prepared & Approved during **October - 2011**

NOTE:
MATERIAL : ALUMINIUM SHEET
THICKNESS : 0.51 (25SWG)

REV.No.	BRIEF DESCRIPTION	TOLERANCE	PROJECTION	DRAWN	SIGN	DATE
LAMCO INDUSTRIES PRIVATE LIMITED B-38, 39, 40 SANATHNAGAR I.E, HYDERABAD 500018, A.P, INDIA.		±0.75		CHECKED		18/10/11
		ALL DIMENSIONS ARE IN mm	SCALE : NTS	APPRVD		18/10/11
	TITLE NAME AND CONNECTION DIAGRAM PLATE					DRAWING NUMBER E 7132332A APTRANSCO
					ISSUE-1	REV-1

CURRENT TRANSFORMER

RATIO	300-200-100/1-0.5775, 1-1. A		
NSV	132 KV	H.S.V. 145 KV	IL 275/350 KV
CORE	1	2	3
BURDEN	20VA	---	20VA
CLASS	5P20	PS	0.2
S.T.C	31.5 KA/ 1.0sec	SL.No.	
I.DYNAMIC	78.75 KA		
CUSTOMER	M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED		
P.O.NO.			
RATIO (PS CORE)	(CORE-2)	300/1	300/0.5775
MAX. SECONDARY RESISTANCE AT 75°C	(Ohm)		≤16/38
MIN. KNEE POINT VOLTAGE, V _k	(VOLT)		≥40/(R _{CT} +10)
MAX. EXCTN. CURREN AT	V _k (mA)		≤30

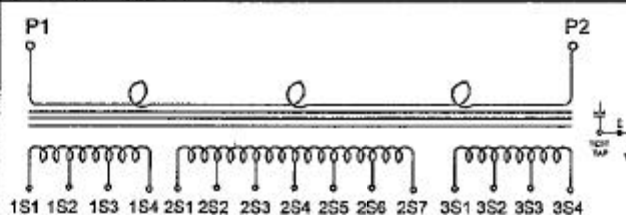


LAMCO INDUSTRIES PRIVATE LTD.
B-38,39&40, I.E., SANATHNAGAR
HYDERABAD - 500 018, A.P., (INDIA)

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

CONNECTION DIAGRAM FOR C.T



RATIO	PRIMARY	SECONDARY		
		CORE-1	CORE-2	CORE-3
300/1	P1-P2	1S1-1S4	2S1-2S6	3S1-3S4
300/0.5775		---	2S1-2S7	---
200/1	P1-P2	1S1-1S3	2S1-2S4	3S1-3S3
200/0.5775		---	2S1-2S6	---
100/1	P1-P2	1S1-1S2	2S1-2S2	3S1-3S2
100/0.5775		---	2S1-2S3	---

CAUTION

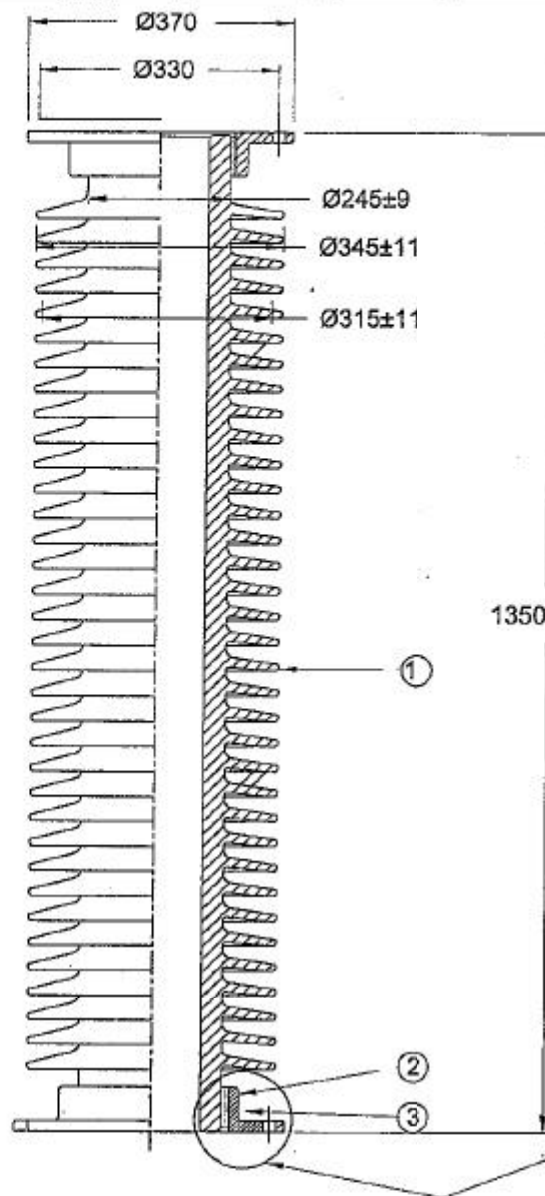
SECONDARY TERMINALS MUST
BE SHORT CIRCUITED BEFORE
THE BURDEN IS DISCONNECTED

CAUTION

TEST TAP MUST BE SOLIDLY
EARTHED BEFORE ENERGISING
THE CTs

- 1) BORDER LINES AND LETTERS ARE WHITE ON BLACK BACKGROUND
- 2) LETTERS WHITE ON BLACK BACKGROUND
- 3) MATERIAL : 0.51 mm AL SHEET ANODISED
- 4) EMPTY RECTANGULAR BLOCK SHOULD BE WHITE

REV.No.	BRIEF DESCRIPTION	SIGN	DATE
LAMCO INDUSTRIES PRIVATE LIMITED B-38,39,40 SANATHNAGAR I.E., HYDERABAD 500018, A.P., INDIA.	TOLERANCE ± 0.75	PROJECTION 	DRAWN
	ALL DIMENSIONS ARE IN mm	SCALE : NTS	CHECKED
			APPRVD
	Standardised Name and Connection Drawing of 132 KV Current Transformer of Ratio 300-200-100/1-0.5775, 1-1A (M/s LAMCO make) STD/GTP-DWG/Approval No. <u>206-10-Sheet1</u> Revision No. <u>0</u> Prepared & Approved during October - 2011	DRAWING NUMBER E 7132332 APTRANSCO	ISSUE-1 REV-0



1350±100 APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

CUSTOMER: M/S. TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED.

03	CEMENT	—	PORTLAND	—
02	FLANGE	2	M.C./M.S	—
01	INSULATOR	1	PORCELAIN	—
SL.No	DESCRIPTION	QTY.	MATERIAL	REMARKS
BILL OF MATERIAL				

REV. No.

BREIF DESCRIPTION

SIGNATURE

DATE



LAMCO

INDUSTRIES PRIVATE LIMITED,
B - 38,39,40, SANATHNAGAR I.E,
HYDERABAD-500018, A.P, INDIA.

TOLERANCE
AS
INDICATED



DRAWN

CHECKED

ALL DIMENSIONS
ARE IN mm

SCALE : NTS

APPROVED

Signature
Signature
Signature

18/10/11
18/10/11
18/10/11



Standardised details of porcelain housing assembly Drawing of
132 KV Current Transformer (M/s LAMCO make)

STD/GTP-DWG/Approval No. 206 -10-Sheet2 Revision No. 0

Prepared & Approved during **October - 2011**

DRAWING NUMBER
E 7132003

ISSUE - 1
REV - 0

GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER			
RATIO : 600-300/1-1-1A			
SL. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		DEAD TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		M/S.LAMCO INDUSTRIES, HYDERABAD
	COUNTRY OF ORIGIN		INDIA
4	CONFORMING TO STANDARD		IS:2705/IEC:185
5	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :-		
	- DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	342
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.81
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
6	RATED PRIMARY VOLTAGE	KVrms	132
7	RATED HIGHEST VOLTAGE	KVrms	145
8	RATED FREQUENCY	Hz	50
9	RATED PRIMARY CURRENT	Amps	600-300
10	RATED SECONDARY CURRENT	Amps	1
11	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
12	TYPE OF INSULATION		CLASS - A
13	SEISMIC ACCELERATION	g	0.3, 0.5
14	RIV AT 1.1×RATED VOLTAGE	micro Volt	< 500
15	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
16	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
17	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
18	PORCELAIN HOUSING & ITS MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/ISI/WSI/ANY STD MAKE
19	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
20	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
21	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
22	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	pC	< 10
23	RATED SHORT TIME WITH STAND CURRENT FOR 1 SEC DURATION	KArms	31.5
24	RATED DYNAMIC WITH STAND CURRENT	KAp	78.75

24

RATIO : 600-300/1-1-1A					
26	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT		
27	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	650		
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	275		
29	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3		
30	a) MINIMUM TOTAL CREEPAGE DISTANCE	mm	3625		
	b) PROTECTED CREEPAGE DISTANCE OF BUSHING		40% OF TOTAL CREEPAGE		
31	DETAILS OF CORE		CORE-1	CORE-2	CORE-3
31.1	CURRENT RATIOS	Amps	600-300/1	600-300/1	600-300/1
31.2	OUT PUT BURDEN	VA	20	--	20
31.3	CLASS OF ACCURACY	%	5P	PS	0.2
31.4	ACCURACY LIMIT FACTOR		20	--	--
31.5	MIN. KNEE POINT VOLTAGE AT 600/1A	KVp	--	$\geq 60I(RCT+10)$	--
31.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT		--	≤ 5	--
31.7	MAX. EXCITING CURRENT AT 100% KVP	mA	--	≤ 30	--
31.8	APPLICATION		PROT	DIFF/PROT	METERING
32	WEIGHT OF OIL	Kg	115±10%		
33	TOTAL WEIGHT OF CT	Kg	450±10%		
34	MOUNTING DETAILS	mm	400×400		
35	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING		
36	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)				
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED		
	b) MAGNETISATION CURVE		ENCLOSED		
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED		
37	CORE				
	a) CORE AREA OF CROSS SECTION		AS PER DESIGN		
	b) FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000		

38. The type tests should have been conducted not earlier than 5 years in the standard FOR LAMCO INDUSTRIES PVT. LTD. third Party laboratory. The manufacturer shall produce the type test report at the time of acceptance tests.

IN-CHARGE (D&D)

HOD (B.D)

DATE: 18/10/11.

DATE:

PAGE 2 OF 2

39. Quality of material & applicable standards. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS

[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.



Standardised Guaranteed Technical Particulars for 132 KV
Current Transformer of Ratio 600-300/1-1-1A
(M/s LAMCO make)
STD/GTP-DWG/Approval No. 206-5 Revision No. 0
Prepared & Approved during October - 2011

GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER			
RATIO : 800-500/1-0.5775,0.66,1-1A			
SL. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		DEAD TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		M/S.LAMCO INDUSTRIES, HYDERABAD
	COUNTRY OF ORIGIN		INDIA
4	CONFORMING TO STANDARD		IS:2705/IEC:185
5	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :-		
	- DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	384
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.81
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
6	RATED PRIMARY VOLTAGE	KVrms	132
7	RATED HIGHEST VOLTAGE	KVrms	145
8	RATED FREQUENCY	Hz	50
9	RATED PRIMARY CURRENT	Amps	800-500
10	RATED SECONDARY CURRENT	Amps	1,0.5775,0.66
11	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
12	TYPE OF INSULATION		CLASS - A
13	SIESMIC ACCELERATION	g	0.3, 0.5
14	RIV AT 1.1×RATED VOLTAGE	micro Volt	< 500
15	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
16	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
17	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
18	PORCELAIN HOUSING & ITS MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/ISI/WSI/ANY STD MAKE
19	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
20	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
21	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
22	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	pC	< 10
23	RATED SHORT TIME WITH STAND CURRENT FOR 1 SEC DURATION	KArms	31.5
24	RATED DYNAMIC WITH STAND CURRENT	KAp	78.75

26

RATIO : 800-500/1-0.5775,0.66,1-1A					
25	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT		
26	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	650		
27	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	275		
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3		
29	a) MINIMUM TOTAL CREEPAGE DISTANCE	mm	3625		
	b) PROTECTED CREEPAGE DISTANCE OF BUSHING		40% OF TOTAL CREEPAGE		
30	DETAILS OF CORE		CORE-1	CORE-2	CORE-3
30.1	CURRENT RATIOS	Amps	800-500/1	800-500/1 500/0.5775, 0.66,1	800-500/1
30.2	OUT PUT BURDEN	VA	20	--	20
30.3	CLASS OF ACCURACY	%	5P	PS	0.2
30.4	ACCURACY LIMIT FACTOR		20	--	--
30.5	MIN. KNEE POINT VOLTAGE AT 800/0.5775,0.66,1	KVp	--	≥ 40(RCT+10)	--
30.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT		--	≤ 5	--
30.7	MAX. EXCITING CURRENT AT 100% KVP	mA	--	≤ 30	--
30.8	APPLICATION		PROT	DIFF/PROT	METERING
31	WEIGHT OF OIL	Kg	115±10%		
32	TOTAL WEIGHT OF CT	Kg	450±10%		
33	MOUNTING DETAILS	mm	400×400		
34	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING		
35	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)				
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED		
	b) MAGNETISATION CURVE		ENCLOSED		
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED		
36	CORE				
	a) CORE AREA OF CROSS SECTION		AS PER DESIGN		
	b) FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000		
37. The type tests should have been conducted not earlier than 5 years in the standard LAMCO INDUSTRIES PVT. LTD. Third Party Laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.					
IN-CHARGE (D&D)			HOD (B.D)		
DATE: 18/10/11			DATE:		
PAGE 2 OF 2					

38. Quality of material & applicable standard. The manufacturer shall produce the valid BIS certificate at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS
 CHIEF ENGINEER / INSTRUCTION-1
 A. RAMESH/VIJAYATH SOUDHA/HYD.



Standardised Guaranteed Technical Particulars for 132 KV
 Current Transformer of Ratio 800-500/1-0.5775,0.66,1-1A
 (M/s LAMCO make)

STD/GTP-DWG/Approval No. 206-7 Revision No. 0

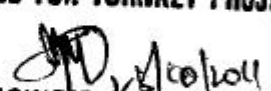
Prepared & Approved during October - 2011

GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER			
RATIO: 300-200-100/1:0.5775, P-1A			
SL. No.	ITEM DESCRIPTION	UNIT	GUARANTEED VALUES
1	TYPE OF TANK/INSTALLATION		DEAD TANK/OUT DOOR INSTALLATION
2	TYPE OF MOUNTING		PEDASTAL
3	NAME OF THE MANUFACTURER		LAMCO INDUSTRIES, HYDERABAD
4	COUNTRY OF ORIGIN		INDIA
5	CONFORMING TO STANDARD		IS:2705/IEC:185
6	a) PRIMARY & SECONDARY WINDING MADE OF (ASPER C.4.12,4.13,4.14)		ELECTROLYTIC COPPER
	b) PRIMARY WINDING :-		
	- DESIGN DENSITY FOR SHORT CIRCUIT	Amp/mm ²	160
	- CURRENT CONDUCTIVITY OF METAL USED	%	99.9
	c) AREA OF CROSS SECTION OF PRIMARY WDG	mm ²	225
	d) AREA OF CROSS SECTION OF SECONDARY WDG	mm ²	0.75
	e) MATERIAL USED FOR PROVIDING SECONDARY TERMINAL		M6 BRASS STUD
7	RATED PRIMARY VOLTAGE	KVrms	132
8	RATED HIGHEST VOLTAGE	KVrms	145
9	RATED FREQUENCY	Hz	50
10	RATED PRIMARY CURRENT	Amps	300-200-100
11	RATED SECONDARY CURRENT	Amps	1,0.5775
12	RATIO TAPS (ON SECONDARY SIDE ONLY)		YES
13	TYPE OF INSULATION		CLASS - A
14	SEISMIC ACCELERATION	g	0.3, 0.5
15	RIV AT 1.1×RATED VOLTAGE	micro Volt	< 500
16	TANK MATERIAL AND TANK COATING (ASPER C.3.1.3 & 3.1.4)		M.S/ZINC RICH EPOXY PAINTED
17	HARD WARE EXPOSED TO ATMOSPHERE (ASPER C.3.1.4)		HOT DIP GALVANISED
18	BOLTS, NUTS & WASHERS (ASPER C.3.1.4)		HOT DIP GALVANISED
19	PORCELAIN HOUSING & IT'S MAKE (SINGLE PIECE ONLY-ASPER C.3.1.2)		IEC/JSI/WSI/ANY STD MAKE
20	SEALING (NITROGEN CUSHION/METAL BELLOW ASPER C.3.1.7)		NITROGEN GAS CUSHION
21	WHETHER TEST TAP PROVIDED (ASPER C.4.18)		YES
22	ACCEPTABLE LIMIT OF TEMPERATURE		ASPER LIMITS OF IS:2705
23	ACCEPTABLE PARTIAL DISCHARGE LEVEL AT 1.1 TIMES THE RATED VOLTAGE	pC	< 10
24	RATED SHORT TIME WITH STAND CURRENT FOR 1 SEC DURATION	KArms	31.5
25	RATED DYNAMIC WITH STAND CURRENT	KAp	78.75

RATIO : 300-200-100/1-0.5775,1-1A					
26	RATED CONTINUOUS THERMAL CURRENT		120% OF RATED CURRENT		
27	1.2/50 MICRO-SEC IMPULSE WITHSTAND VOLTAGE	KVp	650		
28	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF PRIMARY WINDING	KVrms	275		
29	ONE MIN. POWER FREQUENCY WITHSTAND VOLTAGE OF SECONDARY WINDING	KVrms	3		
30	MINIMUM TOTAL CREEPAGE DISTANCE	mm	3625		
31	DETAILS OF CORE		CORE-1	CORE-2	CORE-3
31.1	CURRENT RATIOS	Amps	300-200-100/1	300-200-100/0.5775,1	300-200-100/1
31.2	OUT PUT BURDEN	VA	20	--	20
31.3	CALSS OF ACCURACY	%	5P	PS	0.2
31.4	ACCURACY LIMIT FACTOR		20	--	--
31.5	MIN. KNEE POINT VOLTAGE AT 300/0.5775,1A	KVp	--	$\geq 40I(RCT+10)$	--
31.6	SECONDARY RESISTANCE CORRECTED TO 75°C AT 300/0.5775,1A		--	$\leq 16,38$	--
31.7	MAX. EXCITING CURRENT AT 100% KPV	mA	--	≤ 30	--
31.8	APPLICATION		PROT	DIFF/PROT	METERING
31.9	CORE AREA OF CROSS SECTION		AS PER DESIGN		
31.10	FLUX DENSITY AT RATED PRIMARY CURRENT AND AT RATED BURDEN	Gauss	1000		
32	WEIGHT OF OIL	Kg	115 $\pm$ 10%		
33	TOTAL WEIGHT OF CT	Kg	450 $\pm$ 10%		
34	MOUNTING DETAILS	mm	400 $\times$ 400		
35	OVER ALL DIMENSIONS	mm	AS PER G.A DRAWING		
36	CHARACTERISTICS (WHETHER GRAPH ENCLOSED)				
	a) RATIO AND PHASE ANGLE CURVE		ENCLOSED		
	b) MAGNETISATION CURVE		ENCLOSED		
	c) RATIO CORRECTION FACTOR CURVE		ENCLOSED		
37.	The type tests should have been conducted not earlier than 5 years in the standard third party laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.				
FOR LAMCO INDUSTRIES PVT. LTD.					
IN-CHARGE (D&D)			HOD (B.D)		
DATE: 18/10/11			DATE:		
PAGE 2 OF 2					

38. Quality of material & applicable standards. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

APPROVED FOR TURNKEY PROJECTS


CHIEF ENGINEER / CONSTRUCTION-1
APTRANSCO/VIDYUTH SOUDHA/HYD.

	Standardised Guaranteed Technical Particulars for 132 KV
	Current Transformer of Ratio 300-200-100/1-0.5775,1-1A
	(M/s LAMCO make)
	STD/GTP-DWG/Approval No. 206-9 Revision No. 0
Prepared & Approved during October - 2011	