

**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER**  
**Ratio: 600-300/1-1-1A**

SL.NO	PARTICULARS	
1.	Type of tank/Installation	Dead tank type/ outdoor installation
2.	Type of mounting	Pedestal
3.	Manufacturer's name and address and country of manufacture	M/s Vidyuth Control Systems Pvt. Ltd., S. No.851,IDA Medchal – 501 401, R.R District,A.P-INDIA.
4.	Conforming to standard	IS: 2705:1992
5	Type of voltage transformers	
5. a)	i) Primary and Secondary winding made out of (As per cl.4.12,4.13,4.14)	Primary – Copper Secondary – Copper Class H
	ii) Primary windings – Design density for short circuit current conductivity of metal used	185 A/ sq. mm 99.9% conductivity.
	i) Area of cross section of primary winding	300 sq. mm
b)	ii) Area of cross section of secondary winding	0.82 sq. mm
c)	i) Material used for providing secondary terminals	Brass
6.	Rated primary voltage (KV rms)	132
7.	Rated highest voltage (KV rms)	145
8.	Rated frequency (Hz)	50
9.	Rated primary current (A)	600-300
10.	Rated secondary current (A)	1-1-1
11.	Ratio taps (on secondary side only)	Secondary side
12.	Type of insulation	Class 'A' in Oil
13.	Seismic acceleration (g)	0.5 g – horizontal; 0.3 g – vertical
14.	RIV at 1.1 x Rated voltage ( $\mu$ V)	< 500
15.	Tank material and tank coating (As per clause 3.1.3 & 3.1.4)	Mild steel / Zinc rich epoxy painted (or) Shade No. 697 of IS-5.
16.	Hardware exposed to atmosphere (As per clause 3.1.4)	Hot dip galvanized
17.	All other Bolts, Nuts and washers ( As per clause 3.1.4)	SS
18.	Porcelain housing and it make (Single piece only as per clause 3.1.2)	Porcelain housing is a single piece, BHEL/IEC/CJI/WSI/JAYASHREE/OBLUM/ <del>PUCI</del> <del>CHINA</del> /Ravikiran or any other reputed Make
19.	Sealing (Nitrogen gas cushion/Metal Bellow as per clause 3.1.7)	Nitrogen gas cushion
20.	Instrument security factor (As per clause 4.10)	Less than 5
21.	Whether test tap provided (As per clause 4.18)	Yes
22.	Acceptable limit of temperature	As per IS: 2705
23.	Acceptable partial discharge level at 1.1 times the rated voltage	< 10 pc at $U_m$ < 5 pc at $1.2 U_m / \sqrt{3}$
24.	Rated short time withstand current for 1 sec. duration (KA rms)	31.5





**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER**  
**Ratio: 600-300/1-1-1A**

25.	Rated dynamic withstand current (KAP)	78.75		
26.	Rated continuous thermal current (pu) where pu = rated current	120% of rated current		
27.	1.2/50 micro second impulse withstand voltage (KVP)	650		
28.	One minute power frequency withstand voltage (KV rms) of primary winding (Dry)	275		
29.	One minute power frequency withstand voltage of secondary winding (KV rms)	3		
30.	a) Minimum total Creepage distance of insulator bushing (mm)	3625		
	b) Protected Creepage of distance of bushing (mm)	Not applicable		
	Details of Cores	Core No.	I	II
				III
31.1	Current Ratios A/A	600-300/1	600-300/1	600-300/1
31.2	Output 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 (Kvp) @ 600/1A	-	60 x I x (Rct+10) @ 600/1A	--
31.6	Secondary resistance corrected to 75°C @ 600/1A	-	13.2 @ 600/1A	--
31.7	Max exciting current at 20% of Knee point voltage 50% of Knee point voltage 100% of Knee point voltage	Not Applicable	30 mA 60 mA 100 mA	Not Applicable
31.8	Application	O/L, E/L protection	Distance protection	Metering
32.	Weight of oil (Kgs)	94 Kgs (Approx) *		
33.	Total weight (Kg)	420 Kgs (Approx) *		
34.	Mounting details	Refer enclosed drawing No. 120 150 Rev.00		
35.	Overall dimensions	Refer enclosed drawing No. 120 150 Rev.00		
36	Tan delta value measure at 10 KV to Um /√3	< 5 x 10 <sup>-3</sup>		

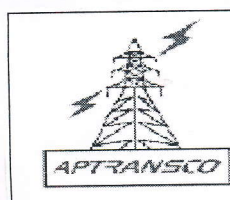
37. The type tests should have been conducted not earlier than 5 years in the standard third party laboratory. The manufacturer shall produce the type test reports at the time of acceptance tests.

**NOTES:**

1. Porcelain height & other dimensions vary from manufacturer to manufacturer.
2. Total weight & oil quantity depending on porcelain insulator.
3. \* Indicated oil quantity & total weights are approximate values.

**Rev.01:** For PS core Knee Point Voltage & Rct Value confirmed to Highest ratio.

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



Standardised Guaranteed Technical Particulars for 132 KV  
Current Transformer of Ratio 600-300/1-1-1A  
( M/s Vidyuth Control Systems (P) Ltd ) make)

STD/GTP-DWG/Approval No. **207 -1** Revision No. 1

Prepared & Approved during **June - 2012**



**APPROVED FOR TURNKEY PROJECTS**

*Signature*  
**CHIEF ENGINEER / CONSTRUCTION-**  
**APTRANSCO/VIDYUTH SOUDHA/HYD**

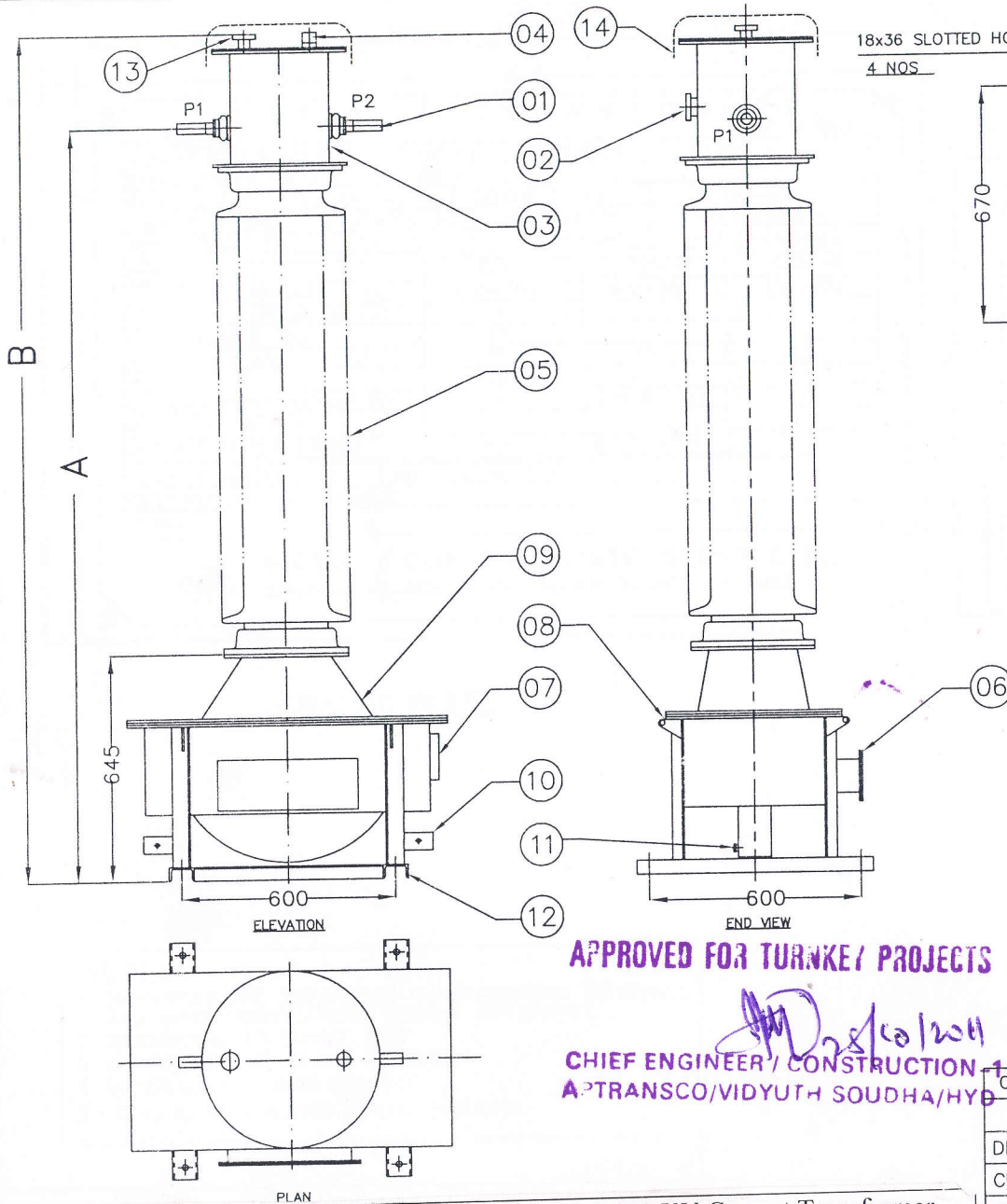


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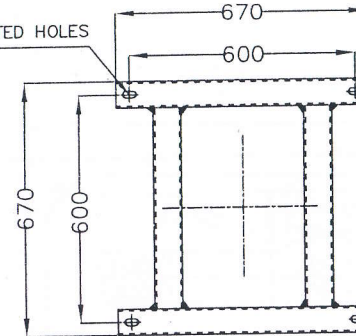
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Date \_\_\_\_\_

SYSTEM PVT.LTD., MEDCHAL

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18x36 SLOTTED HOLES  
4 NOS



DETAILS OF BASE

SL.NO.	PART NAME	QTY
01	PRIMARY TERMINAL (30x80mm LONG)	2 NOS
02	OIL LEVEL INDICATOR	1 NO
03	TOP TANK	1 NO
04	OIL FILLING PLUG	1 NO
05	PORCELAIN INSULATOR (CREEPAGE DISTANCE : 3625mm MIN)	1 NO
06	TERMINAL BOX	1 NO
07	NAME PLATE	1 NO
08	LIFTING EYE	4 NOS
09	LOWER TANK	1 NO
10	EARTHING PAD	2 NOS
11	OIL DRAIN PLUG	1 NO
12	BASE CHANNELS	2 NOS
13	NITROGEN FILLING VALVE	1 NO
14	RAIN SHED	1 NO

NOTE :-

- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
- DIMENSIONAL TOLERANCE  $\pm 5\%$
- CTs WILL BE HERMETICALLY SEALED TYPE.
- ALL HARDWARES WILL BE HOT DIP GALVANIZED.
- CT TANKS WILL BE ZINC RICH EPOXY PAINT COLOUR CONFORMING TO SHADE 697 OF IS:5
- OIL QUANTITY : 100 Lts (Approx) \*
- TOTAL WEIGHT OF CT : 420 Kgs (Approx) \*
- TOTAL CREEPAGE DISTANCE: 3625 mm
- SIZE OF THE SECONDARY TERMINALS : STUD TYPE CLIP ON TERMINALS (M5)

DIMENSIONS	MINIMUM	MAXIMUM
PORCELAIN HEIGHT	1280 mm	1550 mm
HEIGHT UP TO PRIMARY TERMINAL - "A"	2050 mm	2320 mm
TOTAL HEIGHT - "B"	2360 mm	2630 mm

NOTE :-

- PORCELAIN HEIGHT & OTHER DIMENSIONS VARY FROM MANUFACTURER TO MANUFACTURER.
- DIMENSIONS A & B DEPENDING ON PORCELAIN HEIGHT.
- TOTAL WEIGHT & OIL QUANTITY DEPENDING ON PORCELAIN INSULATOR.
- \* INDICATED OIL QUANTITY AND TOTAL WEIGHTS ARE APPROXIMATE VALUES.

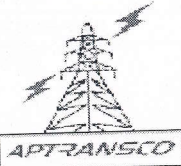
APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION  
APTRANSCO/VIDYUTH SOUDHA/HYD

CUSTOMER M/s. AP TRANSCO

NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.	SCALE : N.T.S
DRN.		GA DRAWING OF 132KV SINGLE PHASE	
CHD.	1/10/11	CURRENT TRANSFORMERS OF	
CHD.		RATIO: 600-300/1-1-1A	
CHD.	18/11/11		
CHD.		VIDYUTH CONTROL SYSTEMS (P) LTD.,	
CHD.		S.No.851, IDA, MEDCHAL - 501 401	
APPD.	18/11/11	R.R DISTRICT, A.P - INDIA	

DRG.No.	120 150
REV. No.	00
SHEET 1 OF 1	



Standardised GA Drawing of 132 KV Current Transformer of Ratio 600-300/1-1-1A, ( M/s Vidyuth Control Systems (P) Ltd make)

STD/GTP-DWG/Approval No. 207 -2-Sheet1 Revision No. 0

Prepared & Approved during **October - 2011**



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Signature \_\_\_\_\_ Date \_\_\_\_\_

This must be returned Tender No.----- our written permission.

## CURRENT TRANSFORMER

IS: 2705:1992. MADE IN INDIA

HIGHEST SYSTEM VOLTAGE	145 KV	FREQUENCY	50 Hz
RATED SYSTEM VOLTAGE	132 KV		
RATED S.T.C	31.5 KA rms For 1 SECOND	Idy	78.75 kAP
INSULATION LEVEL	275/650 KV	OIL QUANTITY	100 Lts(Approx)
TYPE DESIGNATION	132CT/D	TOTAL WEIGHT	420 Kgs(Approx)

CORE	CORE-I	CORE-II	CORE-III
PRIMARY (A)	600-300	600-300	600-300
RATIO	1	1	1
SECONDARY (A)			
RATED BURDEN (VA)	20	---	20
ACCURACY CLASS	5P	PS	0.2
A.L.F	20	---	---
MIN KNEE POINT VOLTAGE (V)	---	60 I (Rct+10) @ 600/1A	---
MAX Im AT VK (mA)	---	100	---
MAX RCT AT 75°C (OHMS)	---	13.2 @ 600/1A	---

YEAR OF MANUFACTURE	2012	SL NO.	*
CUSTOMER	M/s. AP TRANSCO		
PO.NO.			



**VIDYUTH CONTROL SYSTEMS PVT LTD.,**  
S.No.851, IDA, MEDCHAL-501 401.R.R DISTRICT, A.P, INDIA.

121 151

### RATING PLATE

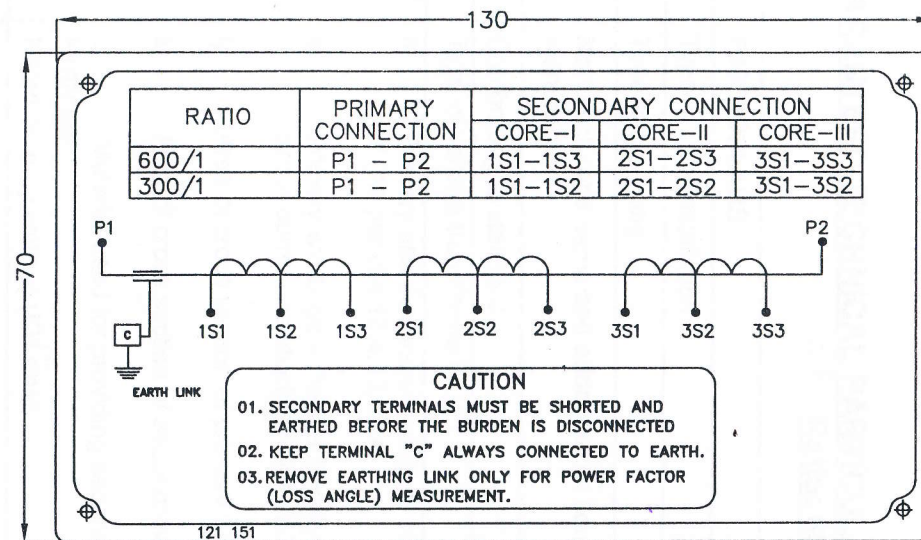


Standardised Name and Connection Drawing of 132 KV  
Current Transformer of Ratio 600-300/1-1-1A  
( M/s Vidyuth Control Systems (P) Ltd make)  
STD/GTP-DWG/Approval No. **207 -2-Sheet2** Revision No. 1  
Prepared & Approved during **June - 2012**

#### NOTE :-

1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$
3. CAUTION WILL BE IN RED LETTERS.
4. MATERIALS : ALUMINIUM SHEET.
- 5.\* SI.No.TO BE PUNCHED BEFORE DISPATCH.

It.	DESCRIPTION
01.	For PS core Knee Point Voltage indicated by formulae at Highest ratio & Rct Values confirmed to highest ratio.



### CONNECTION DIAGRAM PLATE

**APPROVED FOR TURNKEY PROJECTS**

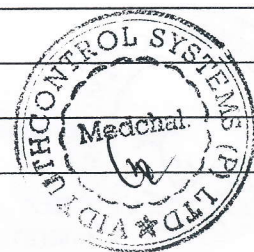
**CHIEF ENGINEER / CONSTRUCTION-1**  
APTRANSCO/VIDYUTH SOUDHA/HYD

CUSTOMER	M/s. AP TRANSCO
NAME	NAME & CONN. DIAGRAM PLATE FOR 132KV CURRENT TRANSFORMERS OF RATIO: 600-300/1-1-1 A
DATE	30/3/12
DRN.	28/3/12
CHD.	28/3/12
CHD.	28/3/12
CHD.	28/3/12
APPD.	30/3/12
VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851,IDA MEDCHAL - 501 401. R.R DISTRICT,A.P - INDIA	
SCALE : N.T.S	
DRG.No. 121 151	
REV. No. 01	
SHEET 1 OF 1	



**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER**  
**Ratio: 300-200-100/1-0.5775,1-1A**

SL.NO	PARTICULARS	
1.	Type of tank/Installation	Dead tank type/ outdoor installation
2.	Type of mounting	Pedestal
3.	Manufacturer's name and address and country of manufacture	M/s Vidyuth Control Systems Pvt. Ltd., S. No.851,IDA Medchal – 501 401, R.R District,A.P-INDIA.
4.	Conforming to standard	IS:2705:1992
5	Type of voltage transformers	
5. a)	i) Primary and Secondary winding made out of (As per cl.4.12,4.13,4.14)	Primary – Copper
	ii) Primary windings – Design density for short circuit current conductivity of metal used	Secondary – Copper Class H
		185 A/sq .mm
		99.9% conductivity.
	i) Area of cross section of primary winding	175 sq. mm
b)	ii) Area of cross section of secondary winding	0.82 sq. mm
	iii) Material used for providing secondary terminals	Brass
6.	Rated primary voltage (KV rms)	132
7.	Rated highest voltage (KV rms)	145
8.	Rated frequency (Hz)	50
9.	Rated primary current (A)	300-200-100
10.	Rated secondary current (A)	1,0.5775-1,1
11.	Ratio taps (on secondary side only)	Secondary side
12.	Type of insulation	Class 'A' in oil
13.	Seismic acceleration (g)	0.5 g – horizontal; 0.3 g – vertical
14.	RIV at 1.1 x Rated voltage ( $\mu$ v)	< 500
15.	Tank material and tank coating (As per clause 3.1.3 & 3.1.4)	Mild steel / Zinc rich epoxy painted (or) Shade No. 697 of IS-5.
16.	Hardware exposed to atmosphere (As per clause 3.1.4)	Hot dip galvanized
17.	All other Bolts, Nuts and washers ( As per clause 3.1.4)	SS
18.	Porcelain housing and it make (Single piece only as per clause 3.1.2)	Porcelain housing is a single piece (BHEL/IEC/CJI/WSI/Jayashree/Oblum/ <del>PUCI</del> <del>CHINA</del> /Ravikiran or any other reputed make)
19.	Sealing (Nitrogen gas cushion/Metal Bellow as per clause 3.1.7)	Nitrogen gas cushion
20.	Instrument security factor (As per clause 4.10)	Less than 5
21.	Whether test tap provided (As per clause 4.18)	Yes
22.	Acceptable limit of temperature	As per IS: 2705





**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER****Ratio: 300-200-100/1-0.5775,1-1A**

23.	Acceptable partial discharge level at 1.1 times the rated voltage	< 10 pc at Um < 5 pc at 1.2 Um /√3			
24.	Rated short time withstand current for 1 sec. duration (KA rms)	31.5			
25.	Rated dynamic withstand current (KAP)	78.75			
26.	Rated continuous thermal current (pu) where pu = rated current	120% of rated current			
27.	1.2/50 micro second impulse withstand voltage (KVP)	650			
28.	One minute power frequency withstand voltage (KV rms) of primary winding(Dry)	275			
29.	One minute power frequency withstand voltage of secondary winding (KV rms)	3			
30.	a) Minimum total Creepage distance of insulator bushing (mm)	3625			
	b) Protected Creepage of distance of bushing (mm)	Not applicable			
	Details of Cores	Core No.	I	II	III
31.1	Current Ratios A/A		300-200-100/1A	300-200-100/0.5775-1A	300-200-100/1A
31.2	Output 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 (Kpv) @ 300/1A		--	40 x I x (RCT+10) @ 300/1A	--
31.6	Secondary resistance corrected to 75°C @ 300/1A		--	12.8 @ 300/1A	--
31.7	Max exciting current at 20% of Knee point voltage 50% of Knee point voltage 100% of Knee point voltage		Not Applicable	10 mA 20 mA 30 mA	Not Applicable
31.8	Application		O/L, E/L protection	Distance protection	Metering
32.	Weight of oil (Kg)	94 Kgs (Approx) *			
33.	Total weight (Kg)	430 Kgs (Approx) *			
34.	Mounting details	Refer enclosed drawing No.120 152 Rev.00			
35.	Overall dimensions	Refer enclosed drawing No.120 152 Rev.00			
36.	Tan delta value measure at 10 KV to Um /√3	< 5 x 10 <sup>-3</sup>			

37. The type test 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.

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

1. Porcelain height & other dimensions vary from manufacturer to manufacturer.
2. Total weight & oil quantity depending on porcelain insulator.
3. \* Indicated oil quantity & total weights are approximate values.

Rev.01: For PS core Knee Point Voltage & Rct Value confirmed to High standard

Standardised Guaranteed Technical Particulars for 132 KV Current Transformer of Ratio 300-200-100/1-0.5775,1-1A ( M/s Vidyuth Control Systems (P) Ltd) make)

STD/GTP-DWG/Approval No. **207 -3** Revision No. 1

Prepared & Approved during **June - 2012**

**APPROVED FOR TURNKEY PROJECT**

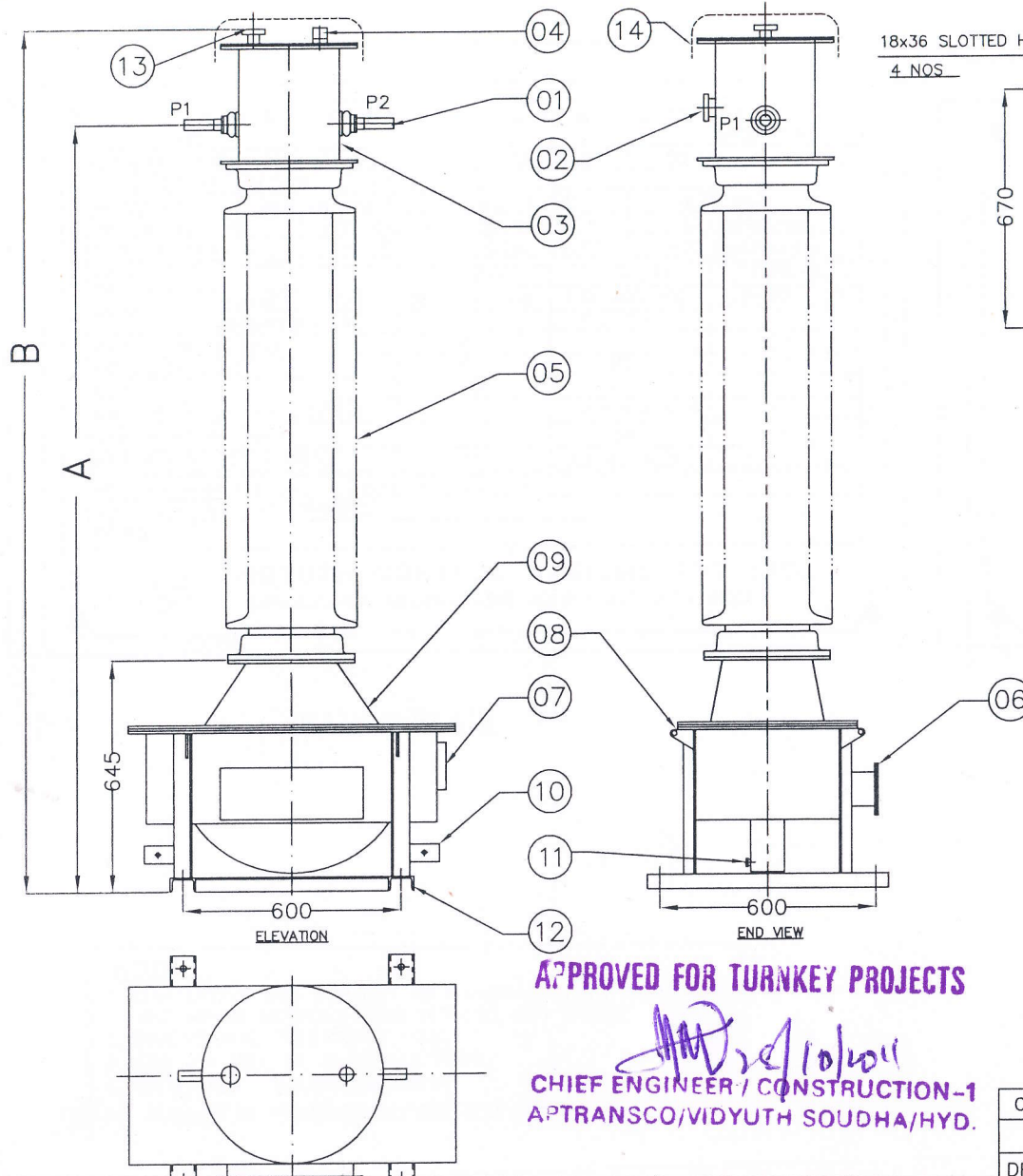
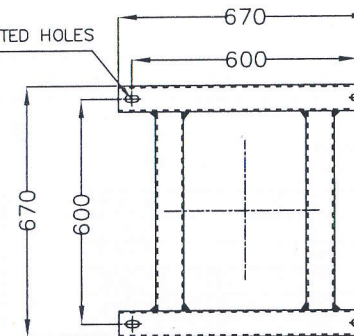
**CHIEF ENGINEER / CONSTRUCTION-1**  
**APTRANSCO/VIDYUTH SOUDHA/HYD.**





Signature

Date

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Connection with our enquiry/  
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on request, it is submitted as confidential in  
it is not to be used for any other purpose nor18x36 SLOTTED HOLES  
4 NOS

DETAILS OF BASE

## NOTE :-

1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$
3. CTs WILL BE HERMETICALLY SEALED TYPE.
4. ALL HARDWARES WILL BE HOT DIP GALVANIZED.
5. CT TANKS WILL BE ZINC RICH EPOXY PAINT COLOUR CONFORMING TO SHADE 697 OF IS:5
6. OIL QUANTITY : 100 Lts (Approx) \*
7. TOTAL WEIGHT OF CT : 430 Kgs (Approx) \*
8. TOTAL CREEPAGE DISTANCE: 3625 mm
9. SIZE OF THE SECONDARY TERMINALS : STUD TYPE CLIP ON TERMINALS (M5)

DIMENSIONS	MINIMUM	MAXIMUM
PORCELAIN HEIGHT	1280 mm	1550 mm
HEIGHT UP TO PRIMARY TERMINAL - "A"	2050 mm	2320 mm
TOTAL HEIGHT - "B"	2360 mm	2630 mm

## NOTE :-


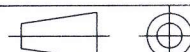
1. PORCELAIN HEIGHT & OTHER DIMENSIONS VARY FROM MANUFACTURER TO MANUFACTURER.
2. DIMENSIONS A & B DEPENDING ON PORCELAIN HEIGHT.
3. TOTAL WEIGHT & OIL QUANTITY DEPENDING ON PORCELAIN INSULATOR.
4. \* INDICATED OIL QUANTITY AND TOTAL WEIGHTS ARE APPROXIMATE VALUES.

APPROVED FOR TURNKEY PROJECTS

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

Standardised GA Drawing of 132 KV Current Transformer  
of Ratio 300-200-100/1-0.5775, 1-1A,  
( M/s Vidyuth Control Systems (P) Ltd make)

STD/GTP-DWG/Approval No. **207 -4-Sheet1** Revision No. **0**Prepared & Approved during **October - 2011**


CUSTOMER		M/s. AP TRANSCO	
	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
DRN.			<u>GA DRAWING OF 132KV SINGLE PHASE</u> <u>CURRENT TRANSFORMERS OF</u> <u>RATIO: 300-200-100/1-0.5775,1-1A</u>  VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851, 1DA, MEDCHAL - 501 401 R.R DISTRICT, A.P - INDIA
CHD.	15/1	18/06	
CHD.			
CHD.	16/6	18/6/11	
CHD.			
APPD.		18/6/11	
			SCALE : N.T.S.
			
			DRG.No.
			120 152
			REV. No. 00
			SHEET 1 OF 1



Signature \_\_\_\_\_

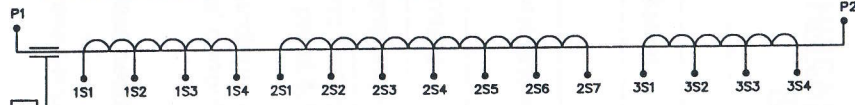
Date \_\_\_\_\_

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Connection with our enquiry/  
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on request. It is submitted as confidential in  
It is not to be used for any other purpose nor

CURRENT TRANSFORMER				
IS: 2705:1992. MADE IN INDIA				
HIGHEST SYSTEM VOLTAGE	145 KV	FREQUENCY	50 Hz	
RATED SYSTEM VOLTAGE	132 KV			
RATED S.T.C	31.5 kA rms For 1 second.	I <sub>dy</sub>	78.75 kAP	
INSULATION LEVEL	275/650 KV	OIL QUANTITY	100 Lts(Approx)	
TYPE DESIGNATION	132CT/D	TOTAL WEIGHT	430 Kgs(Approx)	
CORE		CORE-I	CORE-II	CORE-III
RATIO	PRIMARY (A)	300-200-100	300-200-100	300-200-100
	SECONDARY (A)	1	0.5775-1	1
RATED BURDEN (VA)		20	--	20
ACCURACY CLASS		5P	PS	0.2
A.L.F		20	--	--
MIN KNEE POINT VOLTAGE (V)		--	40 I (Rct+10) @ 300/1A	--
MAX Im AT VK (mA)		--	30	--
MAX RCT AT 75°C (OHMS)		--	12.8 @ 300/1A	--
YEAR OF MANUFACTURE	2012	SL NO.	*	
CUSTOMER	M/s. AP TRANSCO			
P.O.NO.				
 <b>VIDYUTH CONTROL SYSTEMS PVT LTD.,</b> S.No.851, IDA, MEDCHAL-501 401.R.R.DIST. A.P- INDIA.				

121 153

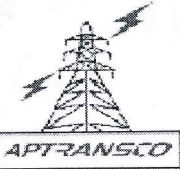
RATIO	PRIMARY CONNECTION	SECONDARY CONNECTION		
		CORE-I	CORE-II	CORE-III
300/1	P1 - P2	1S1-1S4	2S1-2S5	3S1-3S4
200/1	P1 - P2	1S1-1S3	2S1-2S4	3S1-3S3
100/1	P1 - P2	1S1-1S2	2S1-2S2	3S1-3S2
300/0.5775	P1 - P2	--	2S1-2S7	--
200/0.5775	P1 - P2	--	2S1-2S6	--
100/0.5775	P1 - P2	--	2S1-2S3	--



**CAUTION**  
 01. SECONDARY TERMINALS MUST BE SHORTED AND EARTHED BEFORE THE BURDEN IS DISCONNECTED  
 02. KEEP TERMINAL "C" ALWAYS CONNECTED TO EARTH.  
 03. REMOVE EARTHING LINK ONLY FOR POWER FACTOR (LOSS ANGLE) MEASUREMENT.

121 153

## RATING PLATE

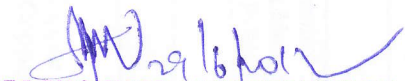
	Standardised Name and Connection Drawing of 132 KV Current Transformer of Ratio 300-200-100/1-0.5775,1- 1A ( M/s Vidyuth Control Systems (P) Ltd make)
	STD/GTP-DWG/Approval No. <u>207-4-Sheet2</u> Revision No. 1
	Prepared & Approved during <b>June - 2012</b>

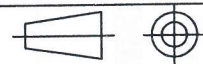

## NOTE :-

1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$
3. CAUTION WILL BE IN RED LETTERS.
4. MATERIALS : ALUMINIUM SHEET.
- 5.\* SI.No.TO BE PUNCHED BEFORE DISPATCH.

## CONNECTION DIAGRAM PLATE

APPROVED FOR TURNKEY PROJECTS

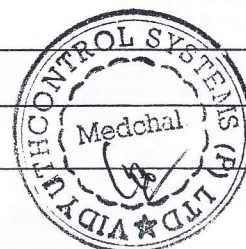
  
 CHIEF ENGINEER / CONSTRUCTION-1  
 APTRANSCO/VIDYUTH SOUDHA/HYD.

CUSTOMER		M/s. AP TRANSCO		SCALE : N.T.S	
DRN.	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.		
CHD.			NAME & CONN. DIAGRAM PLATE FOR 132KV CURRENT TRANSFORMERS OF		
CHD.			RATIO: 300-200-100/1-0.5775.1-1 A	DRG.No.	
CHD.				121 153	
CHD.				REV. No. 01	
APPD.			 VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851,IDA MEDCHAL - 501 401. R.R DISTRICT,A.P - INDIA	SHEET 1 OF 1	



**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER**  
**Ratio: 800-500/1-0.5775,0.66,1-1A**

SL.NO	PARTICULARS	
1.	Type of tank/Installation	Dead tank type/ outdoor installation
2.	Type of mounting	Pedestal
3.	Manufacturer's name and address and country of manufacture	M/s Vidyuth Control Systems Pvt. Ltd., S. No.851,IDA Medchal – 501 401, ,, R.R District,A.P-INDIA.
4.	Conforming to standard	IS: 2705:1992
5	Type of voltage transformers	
5. a)	i) Primary and Secondary winding made out of (As per cl.4.12,4.13,4.14)	Primary – Copper Secondary – Copper Class H
	ii) Primary windings – Design density for short circuit current conductivity of metal used	185 A/ sq. mm 99.9% conductivity.
	i) Area of cross section of primary winding	400 sq. mm
b)	ii) Area of cross section of secondary winding	0.82 sq. mm
c)	i) Material used for providing secondary terminals	Brass
6.	Rated primary voltage (KV rms)	132
7.	Rated highest voltage (KV rms)	145
8.	Rated frequency (Hz)	50
9.	Rated primary current (A)	800-500
10.	Rated secondary current (A)	1-0.5775,0.66,1-1-1
11.	Ratio taps (on secondary side only)	Secondary side
12.	Type of insulation	Class 'A' in oil
13.	Seismic acceleration (g)	0.5 g – horizontal; 0.3 g – vertical
14.	RIV at 1.1 x Rated voltage (m $\mu$ v)	< 500
15.	Tank material and tank coating (As per clause 3.1.3 & 3.1.4)	Mild steel / Zinc rich epoxy painted (or) Shade No. 697 of IS-5.
16.	Hardware exposed to atmosphere (As per clause 3.1.4)	Hot dip galvanized
17.	All other Bolts, Nuts and washers ( As per clause 3.1.4)	SS
18.	Porcelain housing and it make (Single piece only as per clause 3.1.2)	Porcelain housing is a single piece (BHEL/IEC/CJI/WSI/Jayashree/Oblum/ <del>PUCI</del> <del>CHINA</del> /Ravikiran or any other reputed make)
19.	Sealing (Nitrogen gas cushion/Metal Bellow as per clause 3.1.7)	Nitrogen gas cushion
20.	Instrument security factor (As per clause 4.10)	Less than 5
21.	Whether test tap provided (As per clause 4.18)	Yes
22.	Acceptable limit of temperature	As per IS: 2705
23.	Acceptable partial discharge level at 1.1 times the rated voltage	< 10 pc at Um < 5 pc at 1.2 Um / $\sqrt{3}$





**GUARANTEED TECHNICAL PARTICULARS FOR 132KV CURRENT TRANSFORMER****Ratio: 800-500/1-0.5775,0.66,1-1A**

24.	Rated short time withstand current for 1 sec. duration (KA rms)	31.5		
25.	Rated dynamic withstand current (KAP)	78.75		
26.	Rated continuous thermal current (pu) where pu = rated current	120% of rated current		
27.	1.2/50 micro second impulse withstand voltage (KVP)	650		
28.	One minute power frequency withstand voltage (KV rms) of primary winding (Dry)	275		
29.	One minute power frequency withstand voltage of secondary winding (KV rms)	3		
30.	a) Minimum total Creepage distance of insulator bushing (mm)	3625		
	b) Protected Creepage of distance of bushing (mm)	Not applicable		
	Details of Cores	Core No.	I	II
31.1	Current Ratios A/A	800-500/1	800-500/0.5775,0.66,1	800-500/1
31.2	Output 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 (KPV) @ 800/1A	-	40x I x (RCT+10) @ 800/1A	--
31.6	Secondary resistance corrected to 75°C @ 800/1A	-	9.6 Ω @ 800/1A	--
31.7	Max exciting current at 20% of Knee point voltage 50% of Knee point voltage 100% of Knee point voltage	Not Applicable	10 mA 20 mA 30 mA	Not Applicable
31.8	Application	O/L, E/L protection	Distance protection	Metering
32.	Weight of oil (Kg)	80 Kgs (Approx) *		
33.	Total weight (Kg)	400 Kgs (Approx) *		
34.	Mounting details	Refer enclosed drawing No. 120 154 Rev.00		
35.	Overall dimensions	Refer enclosed drawing No. 120 154 Rev.00		
36.	Tan delta value measure at 10 KV to Um /√3	< 5 x 10 <sup>-3</sup>		

37. The type test 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.

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

1. Porcelain height & other dimensions vary from manufacturer to manufacturer.
2. Total weight & oil quantity depending on porcelain insulator.
3. \* Indicated oil quantity & total weights are approximate values.

Standardised Guaranteed Technical Particulars for 132 KV

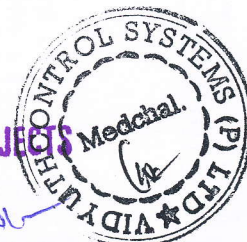
Current Transformer of Ratio 800-500/1-0.5775,0.66,1-1A ( M/s Vidyuth Control Systems (P) Ltd) make)

STD/GTP-DWG/Approval No. **207-5** Revision No. 1

Prepared & Approved during **June - 2012**

**APPROVED FOR TURNKEY PROJECTS**

**CHIEF ENGINEER / CONSTRUCTION-1**  
TRANSCO/VIDYUTH SOUDHA/HYD



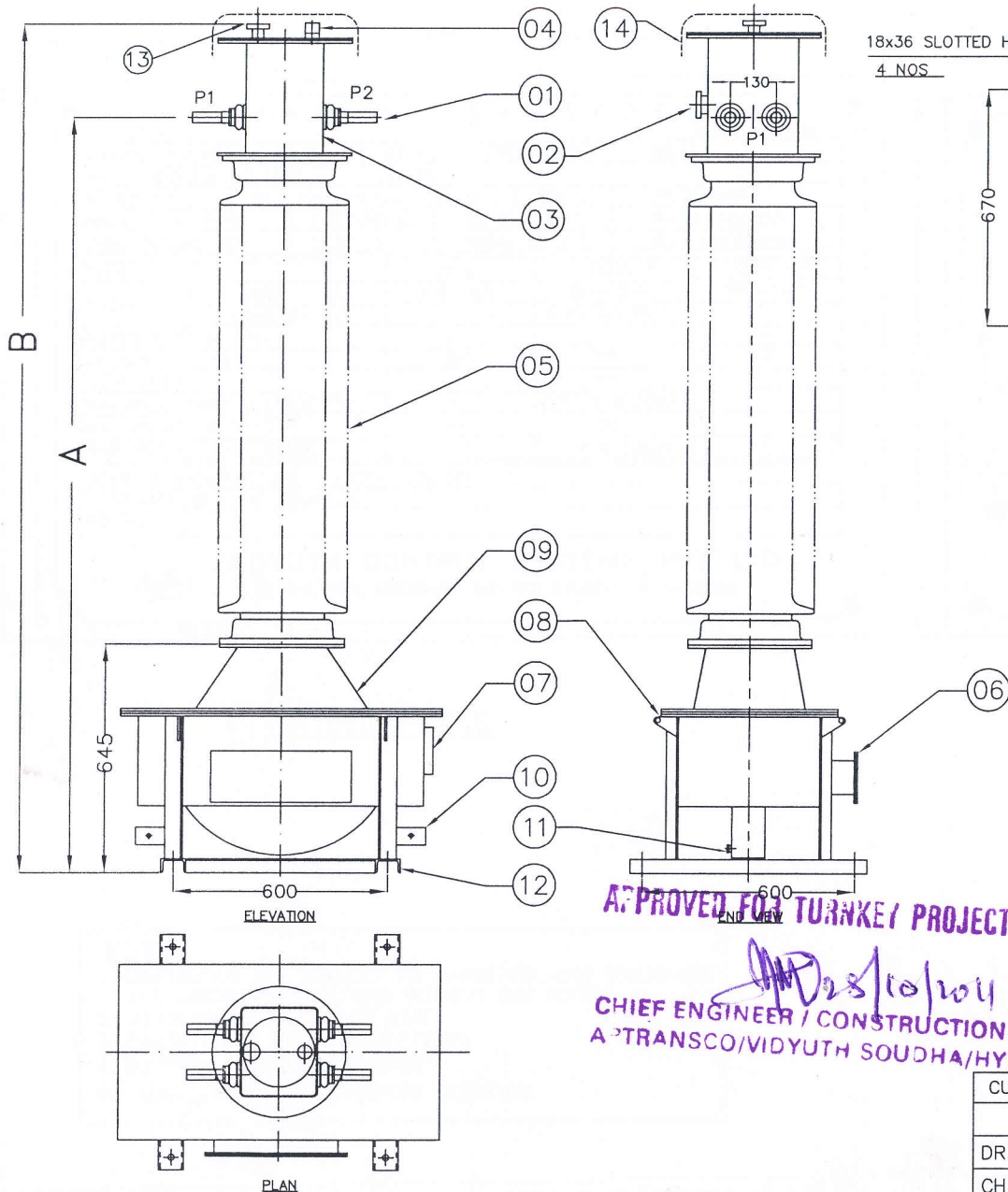


Signature\_\_\_\_\_Date\_\_\_\_\_

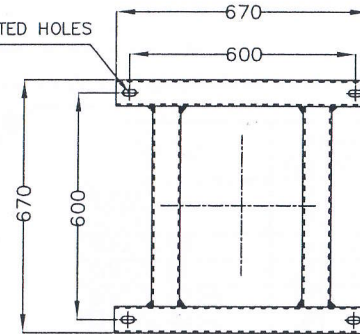
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on request, it is submitted as confidential in  
It is not to be used for any other purpose nor



18x36 SLOTTED HOLES  
4 NOS



DETAILS OF BASE

SL.NO.	PART NAME	QTY
01	PRIMARY TERMINAL (30x80mm LONG)	4 NOS
02	OIL LEVEL INDICATOR	1 NO
03	TOP TANK	1 NO
04	OIL FILLING PLUG	1 NO
05	PORCELAIN INSULATOR (CREEPAGE DISTANCE : 3625mm MIN)	1 NO
06	TERMINAL BOX	1 NO
07	NAME PLATE	1 NO
08	LIFTING EYE	4 NOS
09	LOWER TANK	1 NO
10	EARTHING PAD	2 NOS
11	OIL DRAIN PLUG	1 NO
12	BASE CHANNELS	2 NOS
13	NITROGEN FILLING VALVE	1 NO
14	RAIN SHED	1 NO



NOTE :-

1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$
3. CTs WILL BE HERMETICALLY SEALED TYPE.
4. ALL HARDWARES WILL BE HOT DIP GALVANIZED.
5. CT WILL BE ZINC RICH EPOXY PAINT COLOUR CONFORMING TO SHADE 697 OF IS.:5
6. OIL QUANTITY : 90 Lts (Approx) \*
7. TOTAL WEIGHT OF CT: 400 Kgs (Approx) \*
8. TOTAL CREEPAGE DISTANCE: 3625 mm
9. SIZE OF THE SECONDARY TERMINALS : STUD TYPE CLIP ON TERMINALS (M5)

DIMENSIONS	MINIMUM	MAXIMUM
PORCELAIN HEIGHT	1280 mm	1550 mm
HEIGHT UP TO PRIMARY TERMINAL - "A"	2050 mm	2320 mm
TOTAL HEIGHT - "B"	2360 mm	2630 mm

NOTE :-

1. PORCELAIN HEIGHT & OTHER DIMENSIONS VARY FROM MANUFACTURER TO MANUFACTURER.
2. DIMENSIONS A & B DEPENDING ON PORCELAIN HEIGHT.
3. TOTAL WEIGHT & OIL QUANTITY DEPENDING ON PORCELAIN INSULATOR.
- 4.\* INDICATED OIL QUANTITY AND TOTAL WEIGHTS ARE APPROXIMATE VALUES.

CUSTOMER		M/s. AP TRANSCO		
	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.	SCALE : N.T.S
DRN.			<u>GA DRAWING OF 132KV SINGLE PHASE</u>	
CHD	<i>16/1</i>	<i>18/06</i>	<u>CURRENT TRANSFORMERS OF</u>	
CHD.			<u>RATIO: 800-500/1-0.5775,0.66,1-1 A</u>	DRG.No.
CHD.	<i>16/11</i>	<i>18/6/11</i>	 VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851, IDA, MEDCHAL - 501 401 R.R DISTRICT, A.P - INDIA	<b>120 154</b>
CHD.				REV. No. 00
APPD.	<i>1</i>	<i>18/6/11</i>		SHEET 1 OF 1



Standardised GA Drawing of 132 KV Current Transformer of  
Ratio 800-500/1-0.5775,0.66,1-1A, ( M/s Vidyuth  
Control Systems (P) Ltd make)

STD/GTP-DWG/Approval No. 207 -6-Sheet1 Revision No. 0

Prepared & Approved during October - 2011



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Signature \_\_\_\_\_ Date \_\_\_\_\_

121 155

## CURRENT TRANSFORMER

MADE IN INDIA

IS: 2705:1992.

HIGHEST SYSTEM VOLTAGE	145 KV	FREQUENCY	50 Hz
RATED SYSTEM VOLTAGE	132 KV		
RATED S.T.C	31.5 KA rms For 1 second.	Idy	78.75 kAP
INSULATION LEVEL	275/650 KV	OIL QUANTITY	90 Lts(Approx)
TYPE DESIGNATION	132CT/D	TOTAL WEIGHT	400 Kgs(Approx)

CORE	PRIMARY (A)	CORE-I	CORE-II	CORE-III
RATIO	SECONDARY (A)	800-500	800-500	800-500
		1	0.5775,0.66,1	1
RATED BURDEN (VA)		20	---	20
ACCURACY CLASS		5P	PS	0.2
A.L.F		20	---	---
MIN KNEE POINT VOLTAGE (V)		---	40 I (Rct+10) @ 800/1A	---
MAX Im AT VK (mA)		---	30	---
MAX RCT AT 75°C (OHMS)		---	9.6 @ 800/1A	---

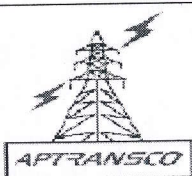
YEAR OF MANUFACTURE	2012	SL NO.	*
CUSTOMER	M/s. AP TRANSCO		
PO. NO.			



**VIDYUTH CONTROL SYSTEMS PVT LTD.,**  
S.No.851, IDA, MEDCHAL-501 401.R.R.DIST. A.P- INDIA.

121 155

## RATING PLATE



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

STD/GTP-DWG/Approval No. **207 -6-Sheet2** Revision No. 1

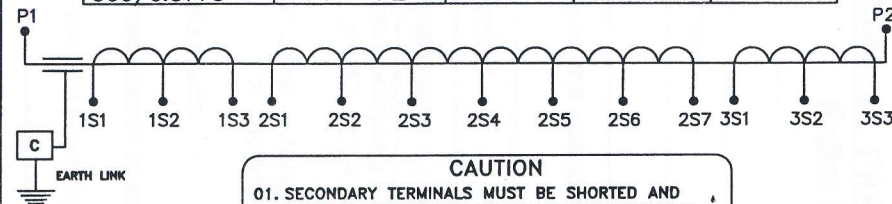
Prepared & Approved during **June - 2012**

### NOTE :-

1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$
3. CAUTION WILL BE IN RED LETTERS.
4. MATERIALS : ALUMINIUM SHEET.
- 5.\* SI.No.TOBE PUNCHED BEFORE DISPATCH.

## CONNETION DIATRAM PLATE

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



### CAUTION

01. SECONDARY TERMINALS MUST BE SHORTED AND EARTHED BEFORE THE BURDEN IS DISCONNECTED
02. KEEP TERMINAL "C" ALWAYS CONNECTED TO EARTH.
- 03.REMOVE EARTHING LINK ONLY FOR POWER FACTOR (LOSS ANGLE) MEASUREMENT.

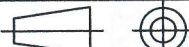
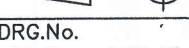

121 155

**APPROVED FOR TURNKEY PROJECTS**

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

It. DESCRIPTION

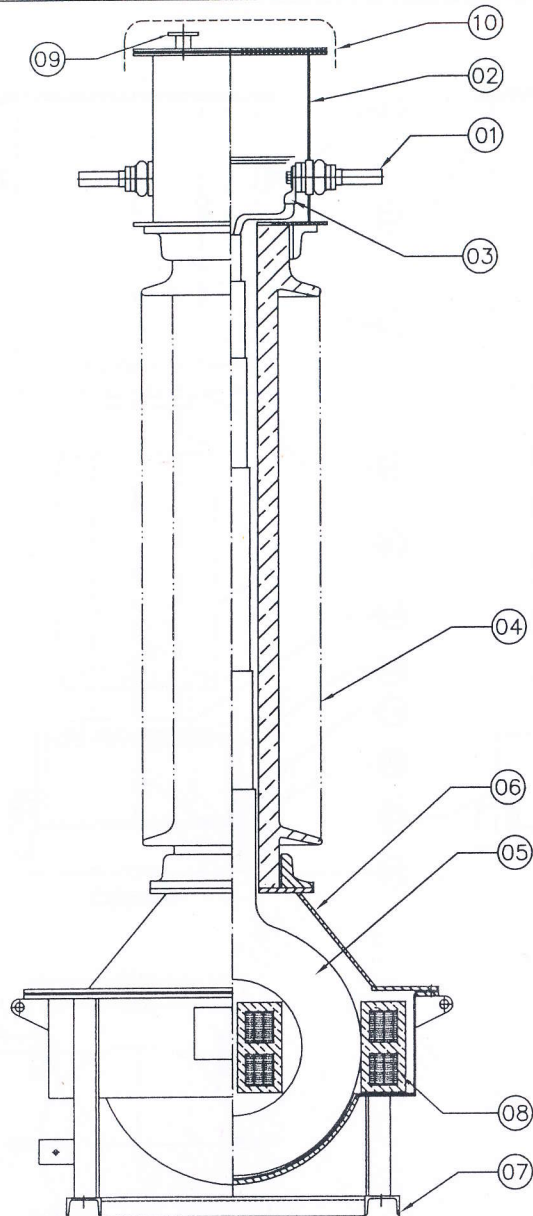
01. For PS core Knee Point Voltage indicated by formulae at Highest ratio & Rct Values confirmed to highest ratio.

CUSTOMER		M/s. AP TRANSCO		SCALE : N.T.S	
	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.		
DRN.	g/f	29/3/12	<u>NAME &amp; CONN. DIAGRAM PLATE FOR</u>		
CHD			<u>132KV CURRENT TRANSFORMERS OF</u>	 DRG.No. <b>121 155</b>	
CHD.	hmo	29/3/12	<u>RATIO: 800-500/1-0.5775,0.66,1-1 A</u>		
CHD.			 VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851,IDA MEDCHAL - 501 401. R.R DISTRICT,A.P - INDIA		
CHD.					
CHD.					
APPD.	d	30/3/12	REV. No. 01 SHEET 1 OF 1		



Signature \_\_\_\_\_

Date \_\_\_\_\_

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SECTIONAL SIDE VIEW

Standardised Sectional view Drawing of 132 KV Current  
Transformer ( M/s Vidyuth Control Systems (P) Ltd make)

STD/GTP-DWG/Approval No. **207 -6-Sheet3** Revision No. 0

Prepared & Approved during **October – 2011**



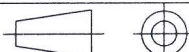

SL.NO.	PART NAME
01	PRIMARY TERMINAL
02	TOP TANK
03	PRIMARY CONNECTION
04	PORCELAIN INSULATOR
05	PRIMARY INSULATION
06	LOWER TANK
07	BASE CHANNEL
08	SECONDARY CORES & WINDINGS
09	NITROGEN FILLING VALVE
10	RAIN SHED

**NOTE :-**

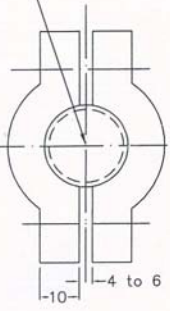
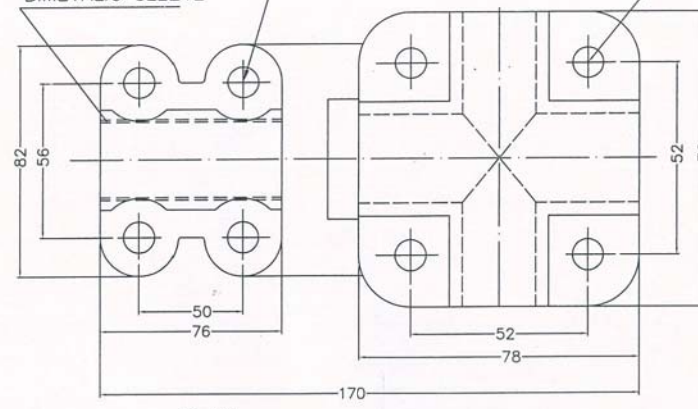
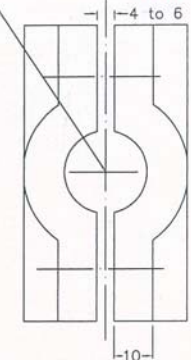
1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE.
2. DIMENSIONAL TOLERANCE  $\pm 5\%$

**APPROVED FOR TURNKEY PROJECTS**

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

CUSTOMER		M/s. AP TRANSCO			
	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.		SCALE : N.T.S
DRN.	651	18/06	<u>SECTIONAL VIEW OF 132KV</u> <u>CURRENT TRANSFORMERS</u>		
CHD					
CHD.					DRG.No.
CHD.	122	156	 VIDYUTH CONTROL SYSTEMS (P) LTD., S.No.851, IDA, MEDCHAL - 501 401 R.R DISTRICT, A.P - INDIA		122 156
CHD.					REV. No. 00
APPD.	1	18/6/11			SHEET 1 OF 1



Signature _____ Date _____ This must be returned Tender No. _____ our written permission. SYSTEM PVT. LTD., MEDCHAL Connection with our enquiry/ may it be copied or lent without permission. This drawing is the property of VIDYUTH CONTROL SYSTEMS PVT. LTD., MEDCHAL on request, it is submitted as confidential in it is not to be used for any other purpose nor	TO TAKE 300 CT/PT PRIMARY STUD  END VIEW (CT STUD SIDE)	BIMETALIC SLEEVE  PLAN	TO TAKE <del>MOOSE</del> <b>ZEBRA</b> ACSR CONDUCTOR. (28.62 mm) 31.77  END VIEW (CONDUCTOR SIDE)																																										
	M10 BOLTS, NUTS, PLAIN & SPRING WASHERS x 8 SETS (NOT SHOWN)																																												
	NOTE:- 1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE 2. DIMENSIONAL TOLERANCE : $\pm 10\%$ 3. ALL SHARP CORNERS ARE ROUNDED OF BY MINIMUM RADIUS. 4. MATERIAL : ALUMINIUM ALLOY 5. ALL BOLTS, NUTS & PLAIN WASHERS ARE HOT DIP GALVANIZED EXCEPT SPRING WASHERS 6. TERMINAL CONNECTOR CONFIRM TO IS: 5561 -1970.																																												
	APPROVED FOR TURNKEY PROJECTS CHIEF ENGINEER / CONSTRUCTION-1 APTRANSCO/VIDYUTH SOUDHA/HYD.																																												
<table border="1"> <thead> <tr> <th colspan="2">CUSTOMER</th> <th colspan="2">M/s. AP TRANSCO</th> <th colspan="2">SCALE : N.T.S</th> </tr> <tr> <th>DRN.</th> <th>NAME</th> <th>DATE</th> <th>ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.</th> <th colspan="2">SCALE : N.T.S</th> </tr> </thead> <tbody> <tr> <td>CHD.</td> <td>18/6/11</td> <td>18/6/11</td> <td>RIGID TYPE TERMINAL CONNECTOR</td> <td colspan="2">DRG.No.</td> </tr> <tr> <td>CHD.</td> <td>18/6/11</td> <td>18/6/11</td> <td>SUITABLE FOR ZEBRA ACSR CONDUCTOR</td> <td colspan="2">720 032</td> </tr> <tr> <td>CHD.</td> <td>18/6/11</td> <td>18/6/11</td> <td>VIDYUTH CONTROL SYSTEMS (P) LTD.,</td> <td colspan="2">REV. No. 00</td> </tr> <tr> <td>APPD.</td> <td>18/6/11</td> <td>18/6/11</td> <td>S.No.851, 10A MEDCHAL - 501 401.</td> <td colspan="2">SHEET 1 OF 1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>R.R. DIST.A.P - INDIA</td> <td colspan="2"></td> </tr> </tbody> </table>				CUSTOMER		M/s. AP TRANSCO		SCALE : N.T.S		DRN.	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.	SCALE : N.T.S		CHD.	18/6/11	18/6/11	RIGID TYPE TERMINAL CONNECTOR	DRG.No.		CHD.	18/6/11	18/6/11	SUITABLE FOR ZEBRA ACSR CONDUCTOR	720 032		CHD.	18/6/11	18/6/11	VIDYUTH CONTROL SYSTEMS (P) LTD.,	REV. No. 00		APPD.	18/6/11	18/6/11	S.No.851, 10A MEDCHAL - 501 401.	SHEET 1 OF 1					R.R. DIST.A.P - INDIA		
CUSTOMER		M/s. AP TRANSCO		SCALE : N.T.S																																									
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CHD.	18/6/11	18/6/11	SUITABLE FOR ZEBRA ACSR CONDUCTOR	720 032																																									
CHD.	18/6/11	18/6/11	VIDYUTH CONTROL SYSTEMS (P) LTD.,	REV. No. 00																																									
APPD.	18/6/11	18/6/11	S.No.851, 10A MEDCHAL - 501 401.	SHEET 1 OF 1																																									
			R.R. DIST.A.P - INDIA																																										



Standardised Drawing for Rigid type terminal connector suitable for **MOOSE ACSR** Conductor ( **Vidyuth Control Systems Pvt Ltd** ).

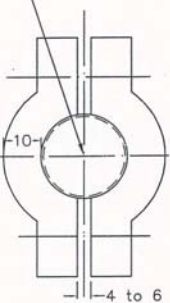
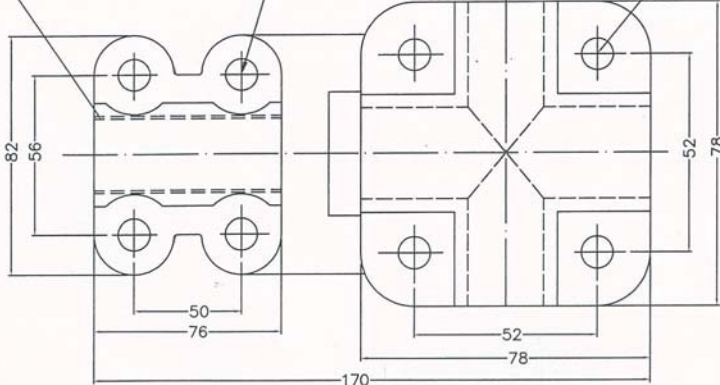
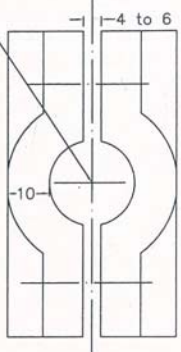
STD/GTP-DWG/Approval No. **207-14sheet1** Revision No. 0

Prepared & Approved during **October - 2011**

Customer ref : **APTRANSCO**

Title: Standardised Drawing for Rigid type terminal connector suitable for **MOOSE ACSR** Conductor





<p style="font-size: small;">This drawing is the property of VIDYUTH CONTROL SYSTEMS PVT. LTD. MEDCHAL. Connection with our enquiry/ may it be copied or lent without our written permission. Date _____</p> <p style="font-size: small;">Signature _____</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>TO TAKE 30Ø CT/PT PRIMARY STUD</p>  <p>END VIEW (CT STUD SIDE)</p> </div> <div style="text-align: center;"> <p>BIMETALIC SLEEVE</p>  <p>PLAN</p> </div> <div style="text-align: center;"> <p>TO TAKE "MOOSE" ACSR CONDUCTOR. (31.77 mm dia)</p>  <p>END VIEW (CONDUCTOR SIDE)</p> </div> </div> <div style="margin-top: 20px;"> <p><b>NOTE:-</b></p> <ol style="list-style-type: none"> <li>1. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCE AND MINOR MODIFICATIONS WITHOUT ANY NOTICE</li> <li>2. DIMENSIONAL TOLERANCE : <math>\pm 10\%</math></li> <li>3. ALL SHARP CORNERS ARE ROUNDED OF BY MINIMUM RADIUS.</li> <li>4. MATERIAL : ALUMINIUM ALLOY</li> <li>5. ALL BOLTS,NUTS &amp; PLAIN WASHERS ARE HOT DIP GALVANIZED EXCEPT SRING WASHERS</li> <li>6. TERMINAL CONNECTOR CONFIRM TO IS: 5561 -1970.</li> </ol> </div>
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APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION - *[Signature]* 21/10/2011

APTRANSCO/VIDYUTH SOUDHA/HYD.

CUSTOMER		M/s. AP TRANSCO		SCALE : N.T.S
DRN.	NAME	DATE	ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.	 DRG.No. <b>720 033</b> REV. No. 00 SHEET 1 OF 1
CHD.	<i>[Signature]</i>	18/10/11	<b>RIGID TYPE TERMINAL CONNECTOR</b>	
CHD.	<i>[Signature]</i>	18/10/11	<b>SUITABLE FOR "MOOSE" ACSR CONDUCTOR</b>	
CHD.	<i>[Signature]</i>	18/10/11		
APPD.	<i>[Signature]</i>	18/10/11	VIDYUTH CONTROL SYSTEMS (P) LTD. S.No.851,IDA MEDCHAL - 501 401. R.R. DISTRICT, A.P - INDIA	



Standardised Drawing for Rigid type terminal connector suitable for **MOOSE ACSR** Conductor ( Vidyuth Control Systems Pvt Ltd ).

STD/GTP-DWG/Approval No. **207-14-sheet1** Revision No. 0

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