



MADHYA PRADESH POWER TRANSMISSION CO.LTD.
(A wholly owned Govt. of Madhya Pradesh Undertaking)
CIN: U40109MP2001SGC014880

Block No.3 Shakti Bhawan, Rampur, Jabalpur (M.P.) 482008
Phone : (0761)270-2162, 2238, 2134 Fax:(0761)2665593 e-mail: mptransco@nic.in

No. 04-01/ADB-III/TR-501/Lot-1/TK-II / 537

Dated : 20 JAN 2016

To,

M/s. Bharat Heavy Electricals Ltd,
Tower-A, 5th Floor, Advant Navis
IT Business Park, Plot No. 7,
Express Highway, NOIDA, UP

Fax 0120-6748494

Sub: Construction of new 400kV sub-stations, transmission lines and Augmentation work/feeder bay work on total turnkey basis TR-501(Lot no. 1) against contract dtd. 28.02.2014.

Ref:- i. Your letter No. TBEM/MPPTCL/TR-501/83012/Lot-1/MLK/PLCC/0042 dtd. 26.11.2015.(received on 05.01.2016)

ii. This office order No. 04-01/ADB-III/MPPTCL/TR-501/Lot-1/TK-II/06602-3 dtd.28.02.2014.

Dear Sirs,

This has reference to your letter dtd. 26.11.2015 vide which you have submitted drawings of M/s Laxmi make 33 KV Potential Transformer for our approval against contract dtd 28.02.2014, as per following details:-

Sl No	Drawings	Drg. No.	Observation
1	OGA for 33 KV PT	W4648-01C573 Var-01	On primary Terminal Tinning should not be less than 15 Micron (as marked by red ink)
2	R&D Plate & Connection diagram for single phase PT	W4648-02- B3061	The weight of pot should be 85 Kg (approx and material should be Anodised (Aluminium) (as marked by red ink)
3	General sectional arrangement for outdoor VT upto 33 KV	W4648-03- A051	OK
4	Rupture Type Pressure Release Assembly	W4648-04- A070	Sealing Gasket should be of Neoprene Rubberized Cork(as marked by red ink)
5.	PT Secy Term Box	W4648-05- B6505	Ok
6	Primary Terminal Assembly for PT	W4648-06- A073	Sealing washer should be of Neoprene Rubberized Cork(as marked by red ink)

Subject to incorporation of our comments all the above tabulated drawings are generally found in order and are hereby approved. Copies of the approved drawings duly stamped are enclosed herewith for your further needful.

Thanking you.

Encl : As above

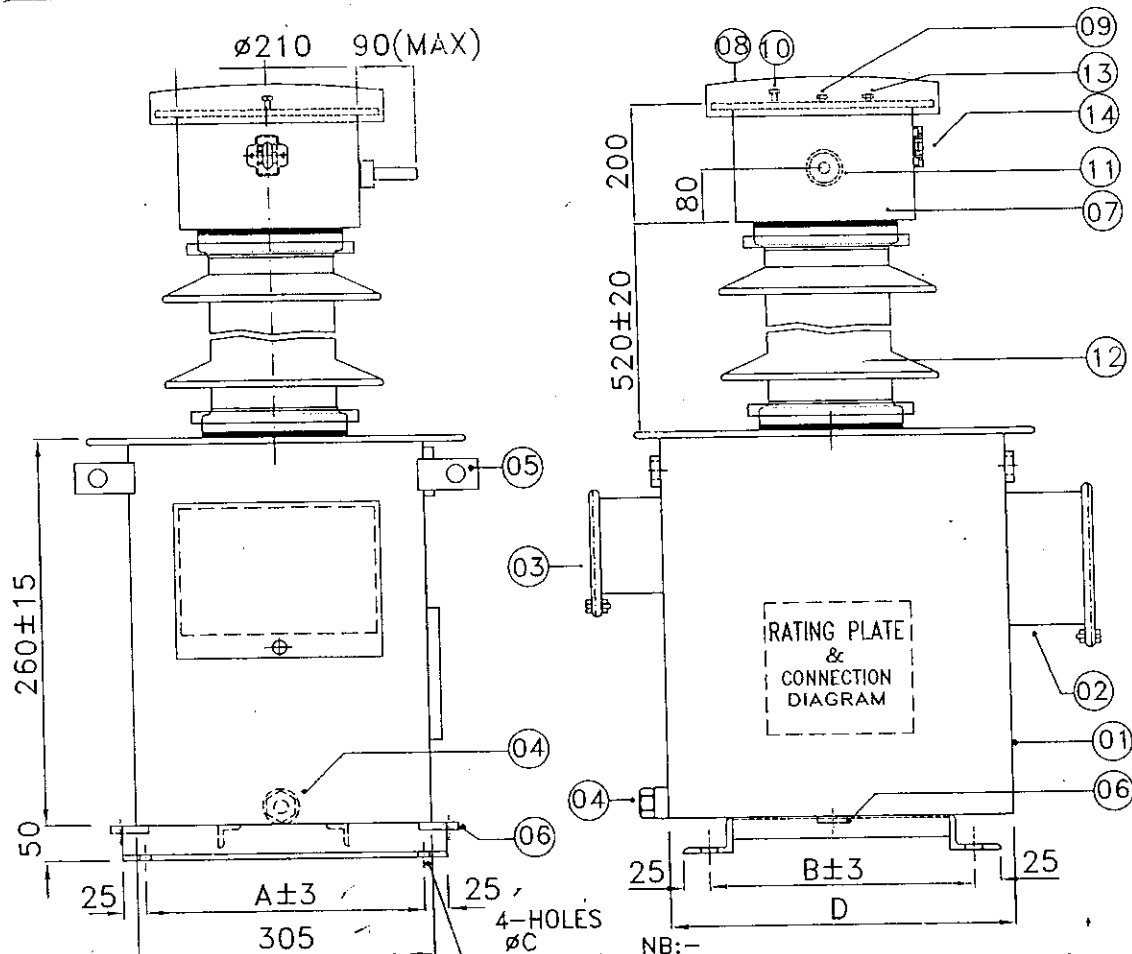
Yours sincerely,

Chief Engineer (Procurement)

Copy to:

1. The Chief Engineer (EHT-C) MPPTCL, Jabalpur.
2. The Chief Engineer (EHT-M&I) MPPTCL, Jabalpur, with one set of drawing.
3. The S.E. (EHT) Circle, MPPTCL, Bhopal/Jabalpur/Indore.
4. The Executive Engineer (EHT:C.)Dn. MPPTCL, Bhopal/Barwaha-II/Ujjain/Indore/Jabalpur-1 with one set of drawing.

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NB:-

1. TOL ± 10 mm UNLESS OTHERWISE SPECIFIED.
2. OIL QUANTITY - 24 LITRES (APP.).
3. TOTAL WT. WITH OIL - 85 KG (APP.).
4. MINIMUM CREEPAGE - 900MM
5. FINISH - EPOXY/PU, PAINTED TO LIGHT GREY COLOUR SHADE NO. 631 OF IS 5.

CUST: BHEL, NOIDA
PO. NO.: 125P145 DT. 29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3

05	200	350	16	384
04	330	330	16	340
03	330	330	16	384
02	310	310	16	340
01	280	280	16	340
VAR	A	B	C	D

APPROVED
[Signature]
Executive Engineer (S/S) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

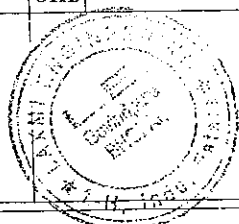
*As primary terminal
to primary terminal
to primary terminal*

14	OIL LEVEL INDICATOR	1
13	PRESSURE RELEASE DEVICE	1
12	PORCELAIN INSULATOR	1
11	PRIMARY TERMINAL 30x80Lg TIN PLATED Cu (UNTHREADED)	1
10	NITROGEN VALVE	1
09	OIL FILLING PLUG	1
08	TOP DOME	1
07	TOP TANK WITH COVER	1
06	EARTHING TERMINAL (M16x30Lg)	2
05	LIFTING HOOK	4
04	OIL DRAIN PLUG	1
03	HT NEUTRAL TERMINAL BOX WITH M10 TERMINAL	1
02	SECONDARY TERM. BOX	1
01	BOTTOM TANK WITH COVER	1
S.NO	DESCRIPTION	QT.

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.
DT		DT		DT		
CKD		CKD		CKD		
						SCALE N.T.S
						APPD. <i>[Signature]</i>

LAXMI ENGINEERING
BHOPAL

TITLE 33KV OUTDOOR
DEAD TANK
VOLTAGE TRANSFORMER
DRG. NO. W4648-01-C573
REV NO. R00



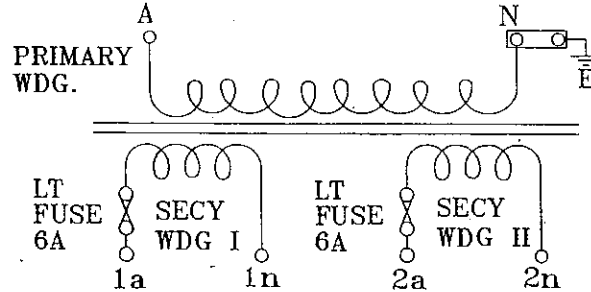
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SINGLE PHASE VOLTAGE TRANSFORMER

SR.NO.		ODVT	TYPE	IS 3156	STD	2015	MFD.
SECY WDG I	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	V	100	VA	3P	CL	
SECY WDG II	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}}$	V	100	VA	0.2	CL	
36 HSV kV	70/170 IL kV	1.25 CONT & 1.5 FOR 30Sec	OVF	50 Hz	EARTHED	PRIM. NEUT.	

GUARANTEE PERIOD 24 MONTHS FROM COMMISSIONING (By BHEL)

CONNECTION DIAGRAM & TERMINALS



WT. OF OIL 23 KG.(APPROX.)
WT. OF TANK 100 KG.(APPROX.)
BT 2/5

MADE IN INDIA

LAXMI ENGINEERING

1-H INDUSTRIAL ESTATE, GOVINDPURA, BHOPAL-462023

Phone: 0755-2586141, Email: laxmile@hotmail.com

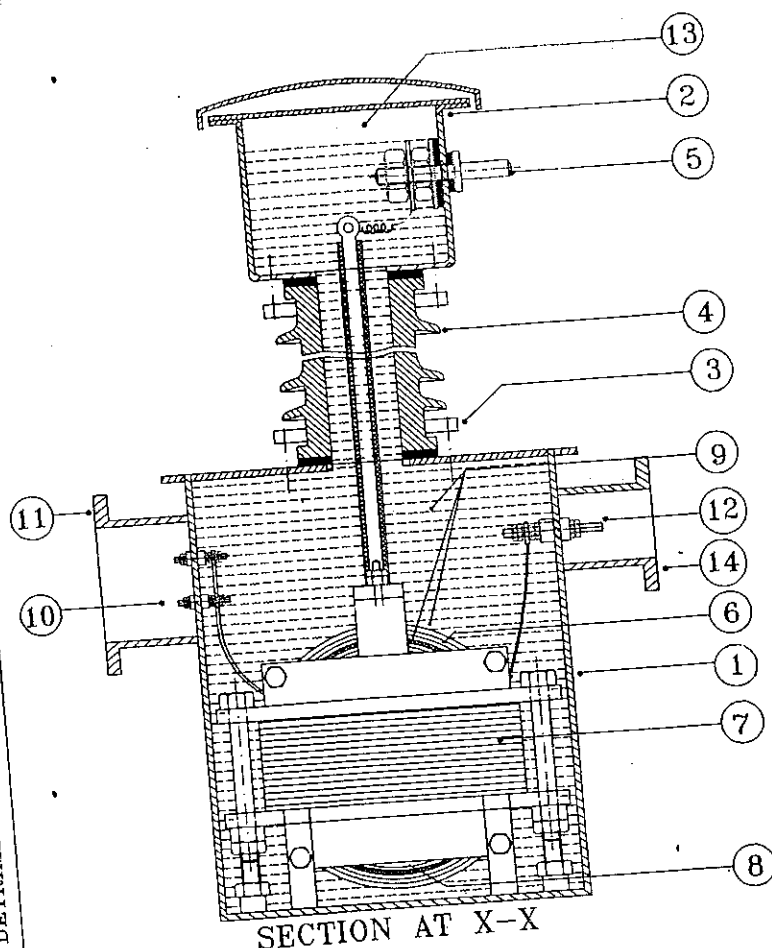
CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3

APPROVED
[Signature]
Executive Engineer (S/s)
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

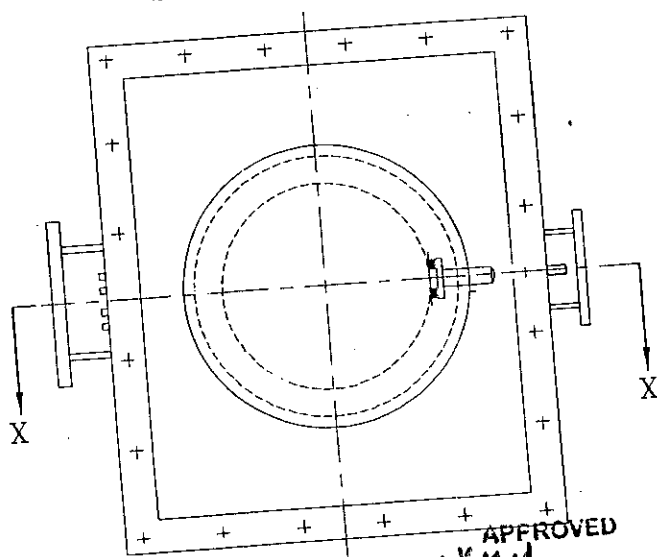
MATERIAL ANODISED (Aluminium)
SIZE 160x130 mm.
FIXING CENTRE-4 HOLES ϕ 2.5 AT 150x120 CENTRE
FINISH BACK GROUND BLACK WITH BOUNDARY LINE
APPLICATION OUTDOOR

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.	LAXMI ENGINEERING BHOPAL
DT		DT		DT		SCALE N.T.S.	
CKD		CKD		CKD		DRN. P. BHOPAL 14-11-2015	TITLE RATING PLATE & CONNECTION DIAGRAM
						CKD.	
						APPD. <i>[Signature]</i>	DRG.NO. W4648-02-B3061

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CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3



NB: BASE MTG. NOT SHOWN

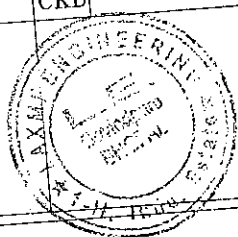
APPROVED
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

14	HT NEUTRAL TERMINAL BOX	M.S.
13	NITROGEN CUSHION	
12	HT NEUTRAL TERM.	BRASS
11	TERMINAL BOX	M.S.
10	SECONDARY TERM.	BRASS
9	INSULATION	PAPER/OIL
8	SECONDARY COIL	ENAMELLED Cu
7	CORE	CRGO
6	PRIMARY COIL	ENAMELLED Cu
5	PRIMARY TERMINAL	COPPER
4	BUSHING	PORCELAIN
3	CLAMPING RING	M.S.
2	TOP TANK	M.S.
1	BOTTOM TANK	M.S.
SL.	DESCRIPTION	MATERIAL

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.
DT		DT		DT		SCALE N.T.S
CKD		CKD		CKD		DRM. 11-2015
						CKD.
						APPD.

LAXMI ENGINEERING
BHOPAL

TITLE GENERAL
SECTIONAL ARRANGEMENT
FOR OUTDOOR VT UPTO 33KV
DRG.NO. W4648-03



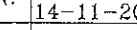
Technical drawing of a mechanical assembly, showing a cross-section and a top view.

Cross-section (Top View): The assembly consists of a flange (1) with three bolts (2) and washers (3). A central hole is labeled $\phi 40$. A section line X-X is indicated. The flange is mounted on a base (4) with a gasket (5) between them.

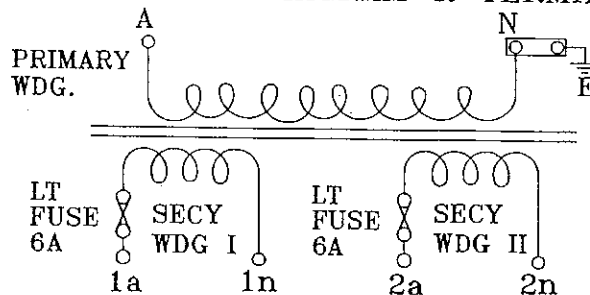
Top View (Bottom View): The circular flange is shown with three bolts. The section line X-X is indicated by arrows pointing to the left and right.

* THICKNESS OF BAKELITE/BRASS SHALL BE SUITABLE FOR RUPTURING AT A PRESSURE OF 6kg/cm^2 APPROX.

APPROVED
[Signature]
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.	LAXMI ENGINEERING BHOPAL	
DT		DT		DT				
CKD		CKD		CKD		SCALE	N.T.S.	
						DRN.	P.MANDAL 14-11-2015	TITLE
						CKD.		RUPTURE TYPE PRESSURE RELEASE ASSEMBLY
						APPD.		

SINGLE PHASE VOLTAGE TRANSFORMER								
SR.NO.		ODVT TYPE		IS 3156 STD		2015 MFD.		
SECY WDG I	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}}$		V	100 VA		3P CL		
SECY WDG II	$\frac{33000}{\sqrt{3}} / \frac{110}{\sqrt{3}}$		V	100 VA		0.2 CL		
36 HSV kV	70/170 IL kV		1.25 CONT & 1.5 FOR 30Sec. OVF		50 Hz		EARTHED PRIM. NEUT.	
GUARANTEE PERIOD 24 MONTHS FROM COMMISSIONING (By BH&L)								
CONNECTION DIAGRAM & TERMINALS								



WT. OF OIL 23 KG.(APPROX.)

WT. OF TANK 109 KG.(APPROX.)

PT 22-

MADE IN INDIA

LAXMI ENGINEERING

1-H INDUSTRIAL ESTATE, GOVINDPURA, BHOPAL-462023

Phone: 0755-2586141, Email: laxmile@hotmail.com

CUST: BHEL, NOIDA

PO. NO.: 125P145 DT.29-10-2015

PROJECT: MPPTCL; JABALPUR

FOR 33KV PTR 33000 / 110 / 110 Volts

3 3 3

APPROVED

✓Cage ad

Executive Engineer (S/s) III

O/o Chief Engineer (Procurement)

MPPTCL, JABALPUR

MATERIAL SIZE

ANODISED (Aluminium)
160x130 mm.

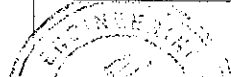
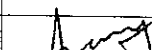
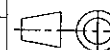
FIXING CENTRE-4 HOLES $\phi 2.5$ AT 150x120 CENTRE

FINISH

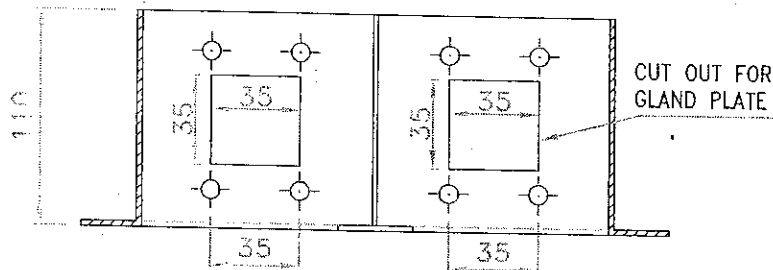
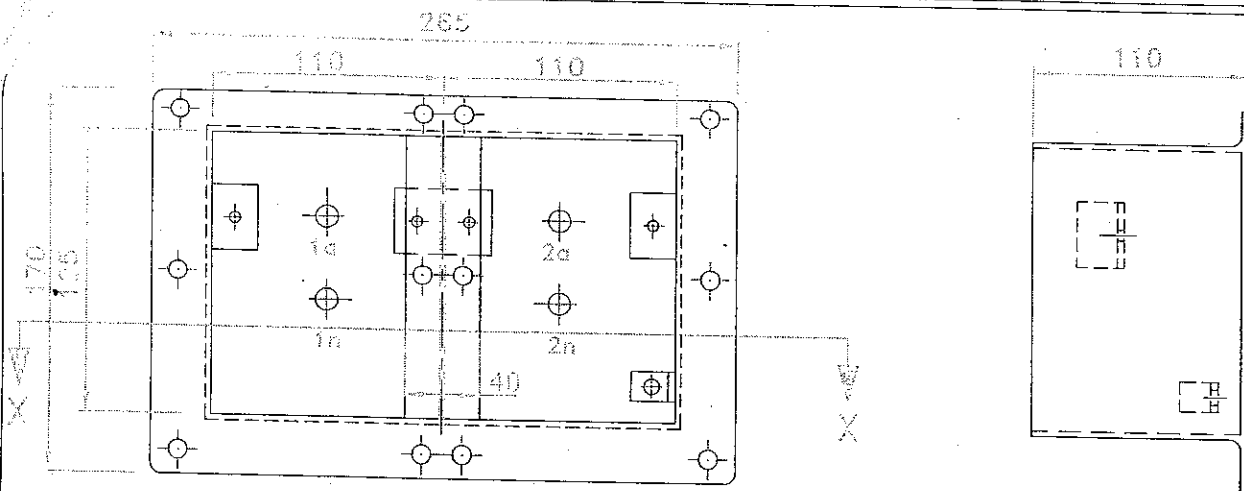
BACK GROUND BLACK WITH BOUNDARY LINE

APPLICATION

OUTDOOR

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.		LAXMI ENGINEERING	
DT		DT		DT				BHOPAL	
CKD		CKD		CKD		SCALE	N.T.S.	TITLE	
						DRN.	P. BHOPAL 14-11-2015	RATING PLATE & CONNECTION DIAGRAM	
						CKD.		DRG.NO.	
						APPD.			W4648-02-B3061

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SECTION AT X-X

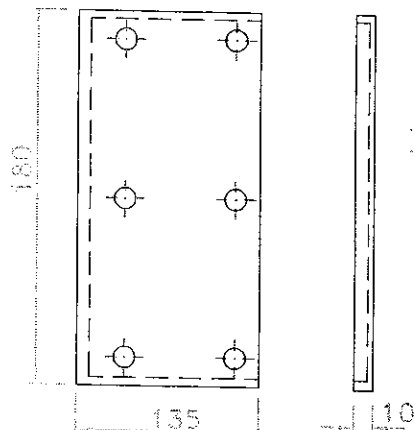
NB.

1. SEC. TERM SIZE : M8
2. CORNER BOLTS SHALL HAVE SEALING HOLES.

MAT- M.S.SHEET 1.6TK.
TOL- ± 10 MM UNLESS SPECIFIED.

SECY. TERMINAL BOX
(WITHOUT COVER)

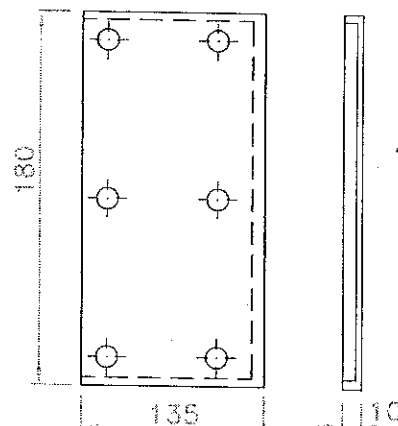
ITEM 1



LEFT COMPARTMENT COVER

MAT- M.S.SHEET 1.6TK.
TOL ± 10 MM UNLESS SPECIFIED.

ITEM 2



RIGHT COMPARTMENT COVER

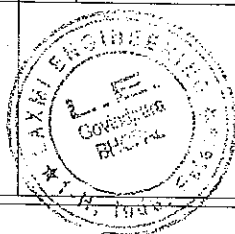
MAT- M.S.SHEET 1.6TK.
TOL ± 10 MM UNLESS SPECIFIED.

ITEM 3

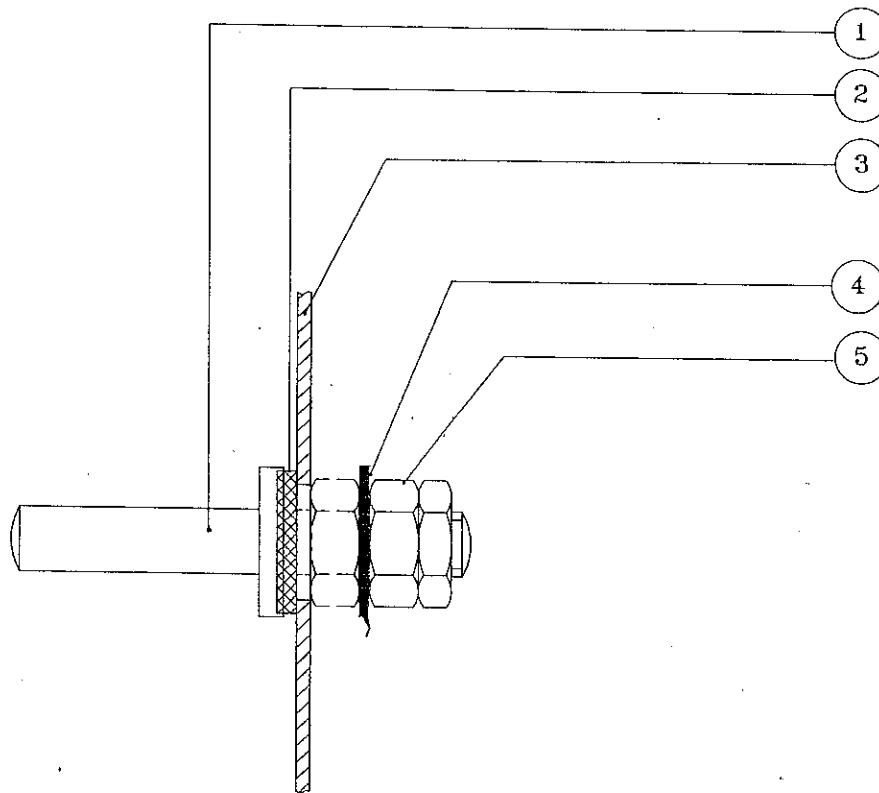
APPROVED
[Signature]
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.	LAXMI ENGINEERING BHOPAL
DT		DT		DT		SCALE	N.T.S.
CKD		CKD		CKD		DRN.	P. L. L. DAL 14-11-2015
						CKD.	
						APPD.	<i>[Signature]</i>
							TITLE PT SECY. TERM. BOX (FOR 1- ϕ PT)
							DRG.NO. W4648-05-B6505



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CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
 $\sqrt{3}$ $\sqrt{3}$ $\sqrt{3}$

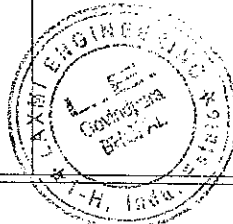
APPROVED
K. Singh

Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

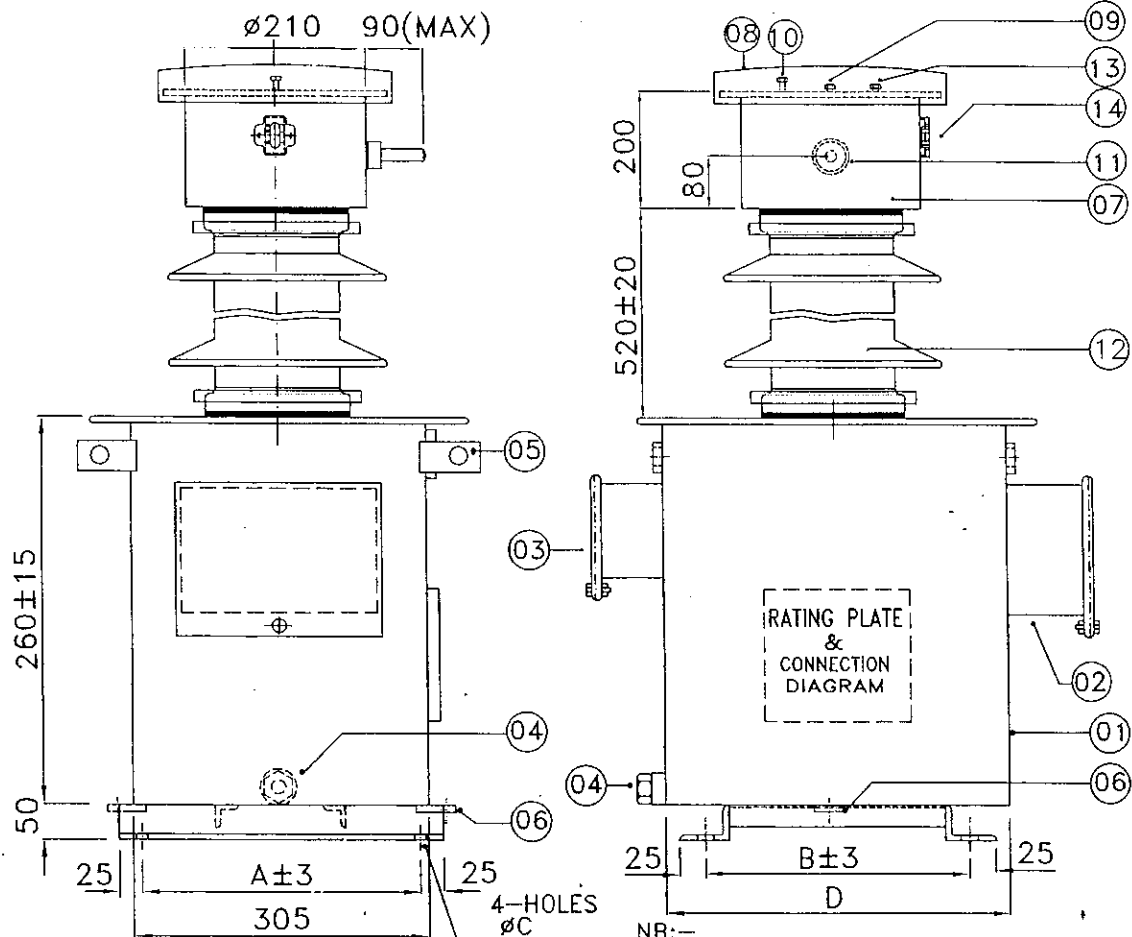
5	NUT	BRASS	3
4	PRIM. CONN. TERMINAL	COPPER	1
3	TANK SHEET	MILD STEEL	-
2	SEALING WASHER	CORR. RESISTANT	1
1	PRIMARY TERMINAL	TIN PLATED CU.	1
SL.NO.	DESCRIPTION	MATERIAL	QTY

REV	ALT	REV	ALT	REV	ALT
DT		DT		DT	
CKD		CKD		CKD	

ALL DIMENSIONS IN MM.	LAXMI ENGINEERING BHOPAL
SCALE N.T.S.	
DRN. 14-11-2015	TITLE
CKD.	PRIMARY TERMINAL ASSEMBLY FOR PT
APPD. <i>[Signature]</i>	DRG.NO. W4648-06-A073



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- NB:-
1. TOL ± 10 mm UNLESS OTHERWISE SPECIFIED.
 2. OIL QUANTITY - 24 LITRES (APP.)
 3. TOTAL WT. WITH OIL - 85 KG (APP.)
 4. MINIMUM CREEPAGE - 900MM
 5. FINISH - EPOXY/PU, PAINTED TO LIGHT GREY COLOUR SHADE NO. 631 DF IS 5.

CUST: BHEL, NOIDA
PO. NO.: 125P145 DT. 29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 11D Volts
3 3 3

05	200	350	16	384
04	330	330	16	340
03	330	330	16	384
02	310	310	16	340
01	280	280	16	340
VAR	A	B	C	D

APPROVED
[Signature]
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

14	OIL LEVEL INDICATOR	1
13	PRESSURE RELEASE DEVICE	1
12	PORCELAIN INSULATOR	1
11	PRIMARY TERMINAL $\phi 30 \times 80$ LG TIN PLATED Cu (UNTHREADED)	1
10	NITROGEN VALVE	1
09	OIL FILLING PLUG	1
08	TOP DOME	1
07	TOP TANK WITH COVER	1
06	EARTHING TERMINAL (M16 $\times$ 30 LG)	2
05	LIFTING HOOK	4
04	OIL DRAIN PLUG	1
03	HT NEUTRAL TERMINAL BOX WITH M10 TERMINAL	1
02	SECONDARY TERM. BOX	1
01	BOTTOM TANK WITH COVER	1
S.NO	DESCRIPTION	QTY.

REV	ALT	REV	ALT	REV	ALT
DT		DT		DT	
CKD		CKD		CKD	

ALL DIMENSIONS
IN MM.

SCALE N.T.S

LRN. VANDAL 15-11-2015

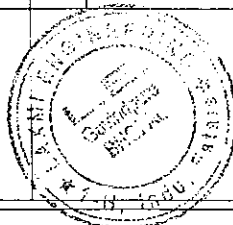
CKD.

APPD. *[Signature]*

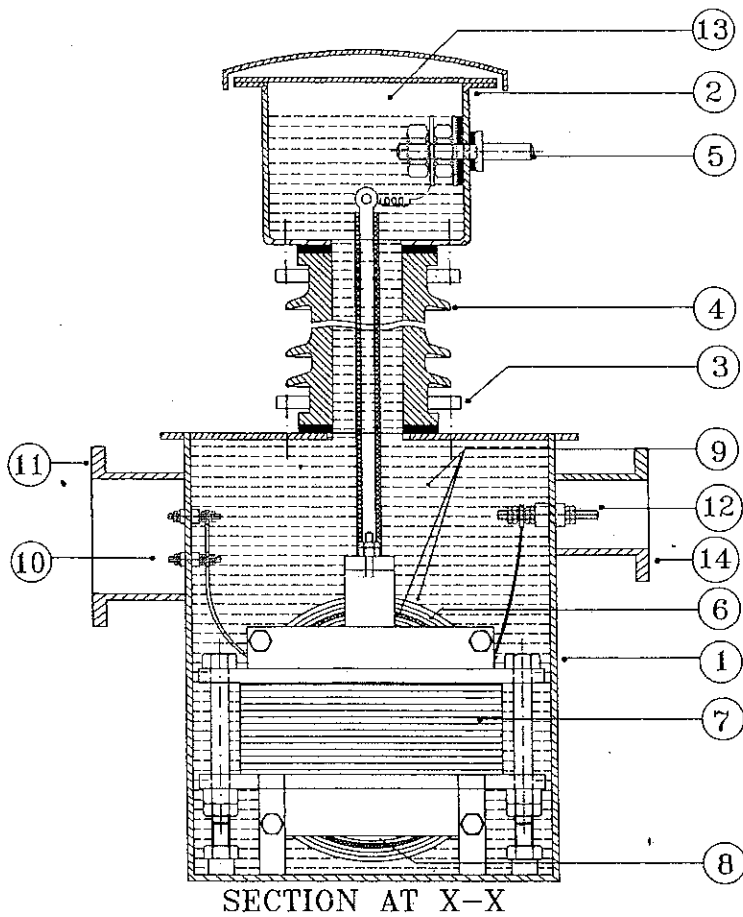
LAXMI ENGINEERING
BHOPAL

TITLE 33KV OUTDOOR
DEAD TANK
VOLTAGE TRANSFORMER

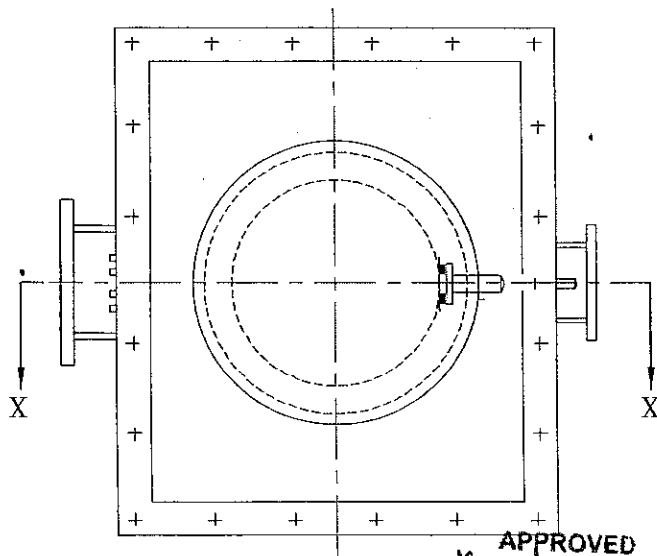
DRG. NO. W4648-01-C573 REV NO. R00



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CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3



NB: BASE MTG. NOT SHOWN

APPROVED
Kame
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

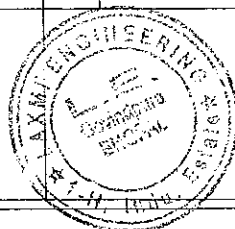
14	HT NEUTRAL TERMINAL BOX	M.S.	1
13	NITROGEN CUSHION	-	-
12	HT NEUTRAL TERM.	BRASS	1
11	TERMINAL BOX	M.S.	1
10	SECONDARY TERM.	BRASS	AS REQD
9	INSULATION	PAPER/OIL	AS REQD
8	SECONDARY COIL	ENAMELLED Cu	AS REQD
7	CORE	CRGO	AS REQD
6	PRIMARY COIL	ENAMELLED Cu	AS REQD
5	PRIMARY TERMINAL	COPPER	1
4	BUSHING	PORCELAIN	1
3	CLAMPING RING	M.S.	2
2	TOP TANK	M.S.	1
1	BOTTOM TANK	M.S.	1
SL	DESCRIPTION	MATERIAL	QTY

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.
DT		DT		DT		
CKD		CKD		CKD		
						SCALE N.T.S
						DRM. P. MANDAL 13-11-2015
						CKD.
						APPD. <i>[Signature]</i>

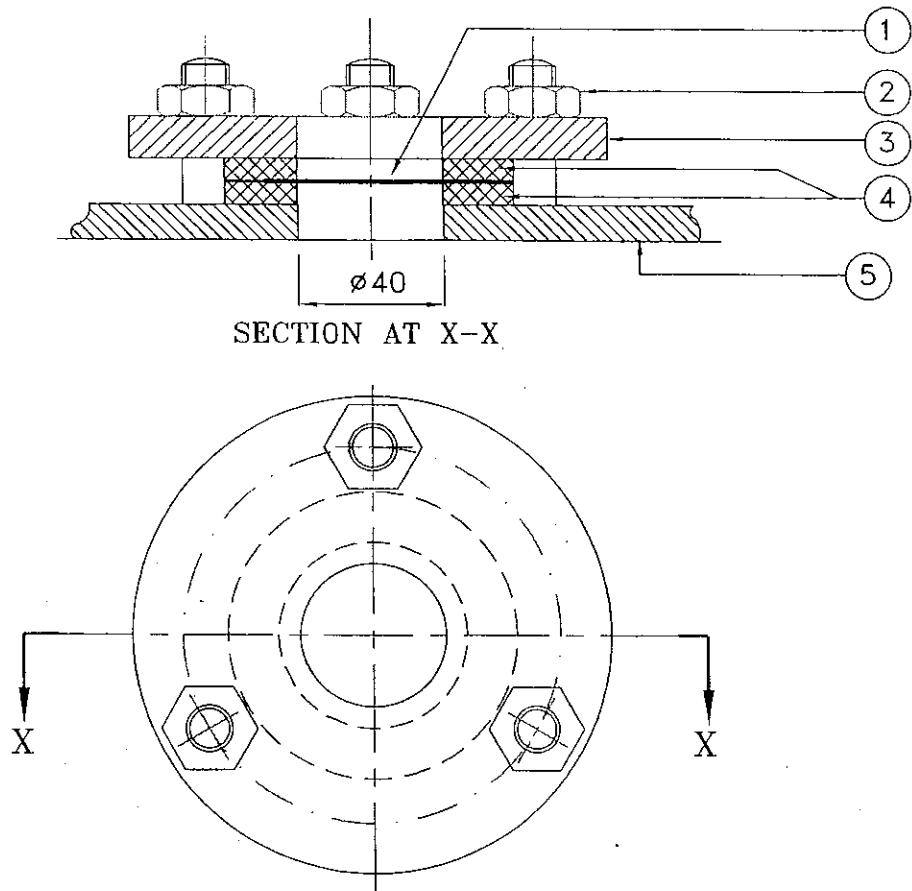
LAXMI ENGINEERING
BHOPAL

TITLE GENERAL
SECTIONAL ARRANGEMENT
FOR OUTDOOR VT UPTO 33KV

DRG.NO.
W4648-03-A051



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CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3

* THICKNESS OF BAKELITE/BRASS SHALL BE SUITABLE FOR RUPTURING AT A PRESSURE OF 6kg/cm² APPROX.

APPROVED
V. K. Singh
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

5	TOP SURFACE OF CT TANK	MS
4	SEALING GASKET	RUBBERISED-CORK <i>Neoprene Rubberised cork</i>
3	COVER PLATE	MS
2	M6 NUT & BOLT	MS
1	DIAPHRAGM	*BAKELITE/BRASS

S.NO.	DESCRIPTION	MATERIAL
REV	ALT	REV
DT		DT
CKD		CKD

ALL DIMENSIONS IN MM.

LAXMI ENGINEERING
BHOPAL

SCALE N.T.S.

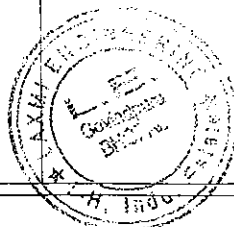
DRN. P.MANDAL
14-11-2015

TITLE
RUPTURE TYPE
PRESSURE RELEASE ASSEMBLY

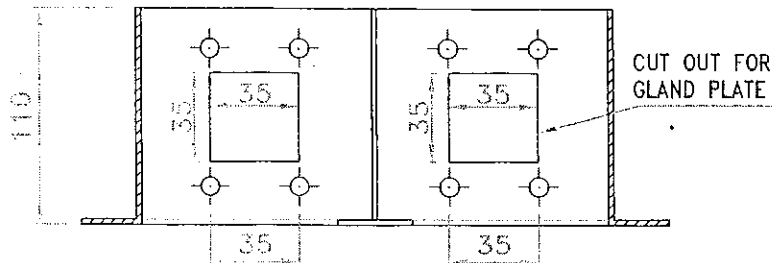
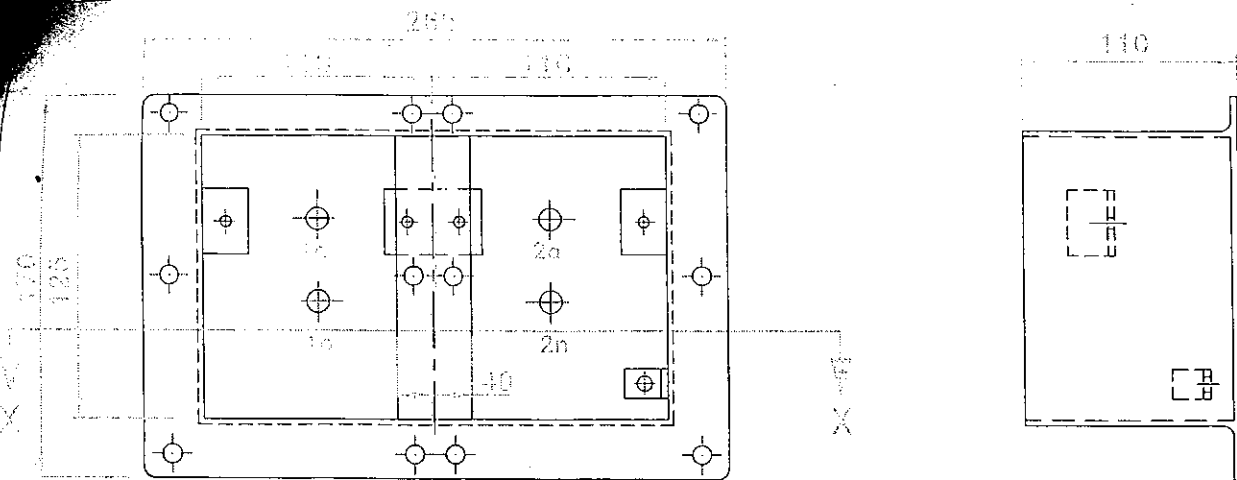
CKD.

APPD. *[Signature]*

DRG.NO.
W4648-04-A070



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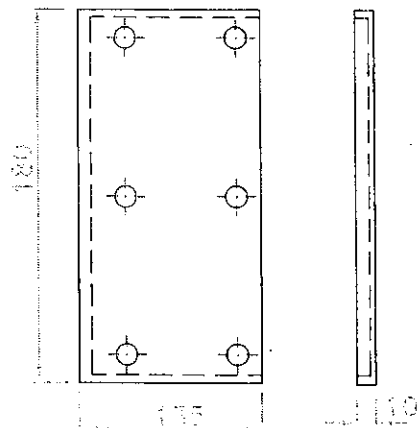
SECTION AT X-X

- NB.
1. SEC. TERM SIZE : M8
 2. CORNER BOLTS SHALL HAVE SEALING HOLES.

MAT- M.S.SHEET 1.6TK.
TOL- ± 10 MM UNLESS SPECIFIED.

SECY. TERMINAL BOX
(WITHOUT COVER)

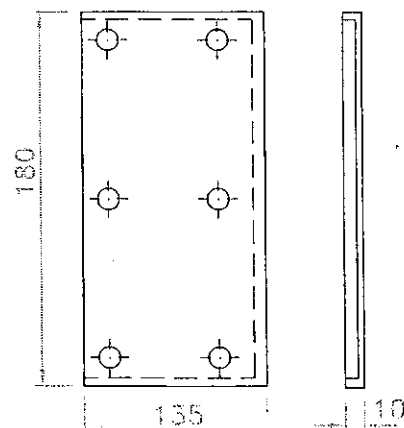
ITEM 1



LEFT COMPARTMENT COVER

MAT- M.S.SHEET 1.6TK.
TOL ± 10 MM UNLESS SPECIFIED.

ITEM 2



RIGHT COMPARTMENT COVER

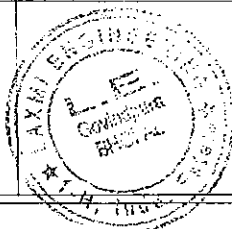
MAT- M.S.SHEET 1.6TK.
TOL ± 10 MM UNLESS SPECIFIED.

ITEM 3

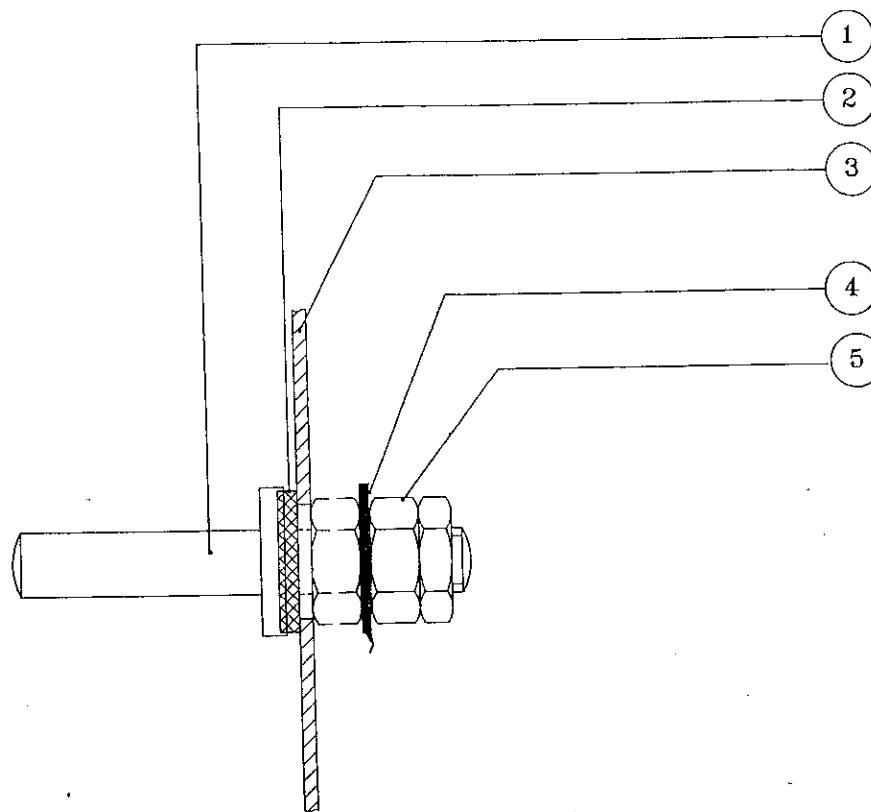
APPROVED
V. K. Singh
Executive Engineer (S/s) III
O/o Chief Engineer (Procurement)
MPPTCL, JABALPUR

CUST: BHEL, NOIDA
PO. NO.: 125P145 DT.29-10-2015
PROJECT: MPPTCL, JABALPUR
FOR 33KV PTR 33000 / 110 / 110 Volts
3 3 3

REV	ALT	REV	ALT	REV	ALT	ALL DIMENSIONS IN MM.	LAXMI ENGINEERING BHOPAL
DT		DT		DT		SCALE	N.T.S.
CKD		CKD		CKD		DRN.	14-11-2015
						CKD.	
						APPD.	<i>Amey</i>
						TITLE	PT SECY. TERM. BOX (FOR 1- ϕ PT)
						DRG.NO.	W4648-05-B650



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APPROVED
[Signature]
 Executive Engineer (S/s) III
 O/o Chief Engineer (Procurement)
 MPPTCL, JABALPUR

CUST: BHEL, NOIDA
 PO. NO.: 125P145 DT.29-10-2015
 PROJECT: MPPTCL, JABALPUR
 FOR 33KV PTR 33000 / 110 / 110 Volts
 $\sqrt{3}$ 3 3

5	NUT	BRASS	3
4	PRIM. CONN. TERMINAL	COPPER	1
3	TANK SHEET	MILD STEEL	-
2	SEALING WASHER	CORK	1
1	PRIMARY TERMINAL	TIN PLATED CU.	1
SL.NO.	DESCRIPTION	MATERIAL	QTY.

REV	ALT	REV	ALT	REV	ALT
DT		DT		DT	
CKD		CKD		CKD	

ALL DIMENSIONS IN MM.
SCALE N.T.S.
DRG. NO. 14-11-2015
CKD.
APPD. <i>[Signature]</i>

LAXMI ENGINEERING
 BHOPAL
 TITLE
 PRIMARY TERMINAL
 ASSEMBLY FOR PT
 DRG.NO.
 W4648-06-A073

