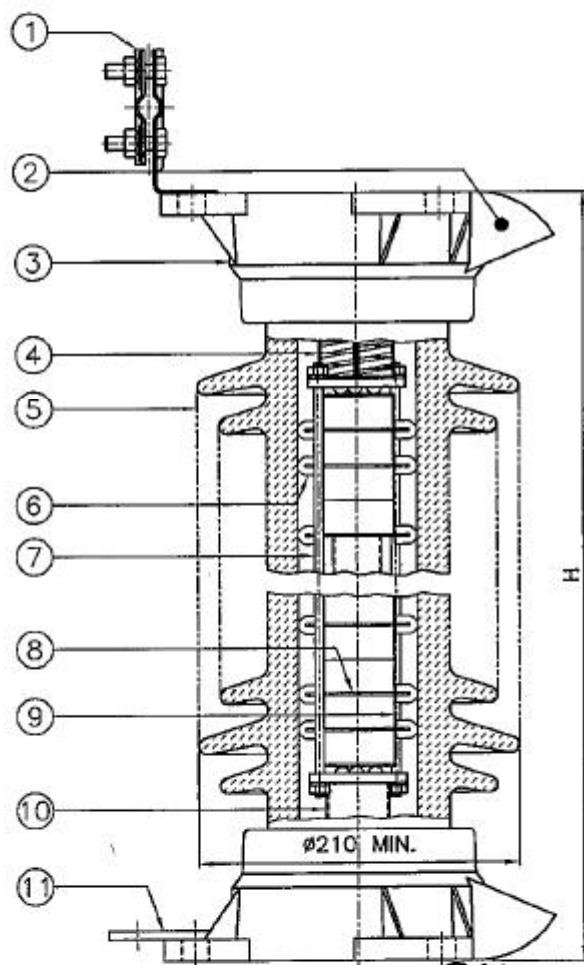


MINIMUM CLEARANCE FROM EARTHED
OBJECTS AND BETWEEN PHASES

SELECTION GUIDE

ARRESTER MODEL	ARRESTER RATING-kV (U_r)	DISCHARGE CURRENT-kA (I_n)	L.D. CLASS	HEIGHT-H	MOUNTING CLEARANCES	
					PHASE TO PHASE - P	PHASE TO GROUND-G
ZAB	30	10	2	535 ± 25	950	700

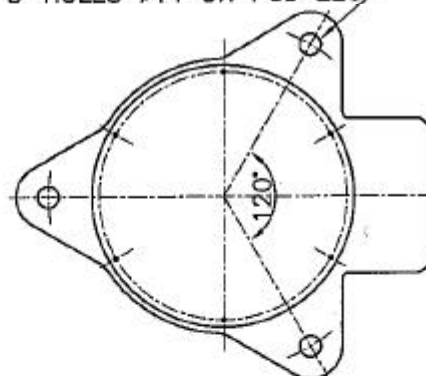
	Standardised Drawing for 30 KV Lightning Arrester(Oblum Electrical Industries Pvt.Ltd.,).
	STD/GTP-DWG/Approval No. 210-6-sheet 1 Revision No. 0
	Prepared & Approved during October - 2011
	Customer ref : APTRANSCO Title: 30KV - 10KA - Metal Oxide Surge Arrester



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

3-HOLES Ø14 ON PCD 226 ± 6



ARRESTER BASE MOUNTING DETAILS

11. EARTH TERMINAL
10. PIPE SPACER
9. METAL OXIDE VARISTOR
8. CONTACT ELECTRODE
7. INSULATING TIE ROD
6. BUMPER
5. PORCELAIN HOUSING
4. COMPRESSION SPRING
3. END CASTING
2. PRESSURE RELEASE PORT
1. TERMINAL CLAMP

CHECKED

ACE-1/DN

ACE-2/DN

DE/DN

TITLE:

30kV-10kA METAL-OXIDE SURGE ARRESTER

MATL: ALL M.S. PARTS ARE HOT DIP GALVANISED

REV. No.: 0

DATE: 21/10/2011

DRG. No.: ZAB-339081

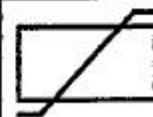
DRN. BY: *Dr. Kumar*

OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED
A-16&17 ASSISTED PRIVATE INDUSTRIAL ESTATE
BALANAGAR
HYDERABAD - 37 A.P. (INDIA)

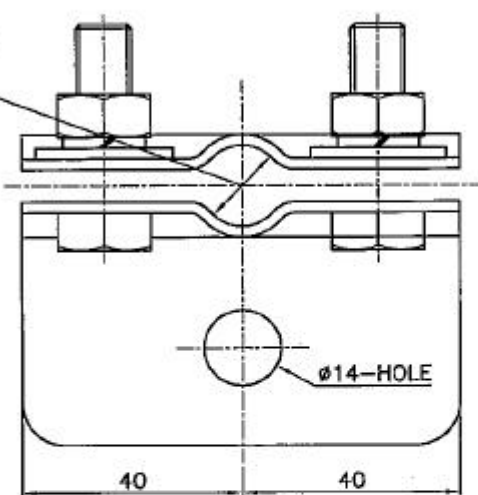
SCALE: N.T.S.

APPRD. BY: *on*

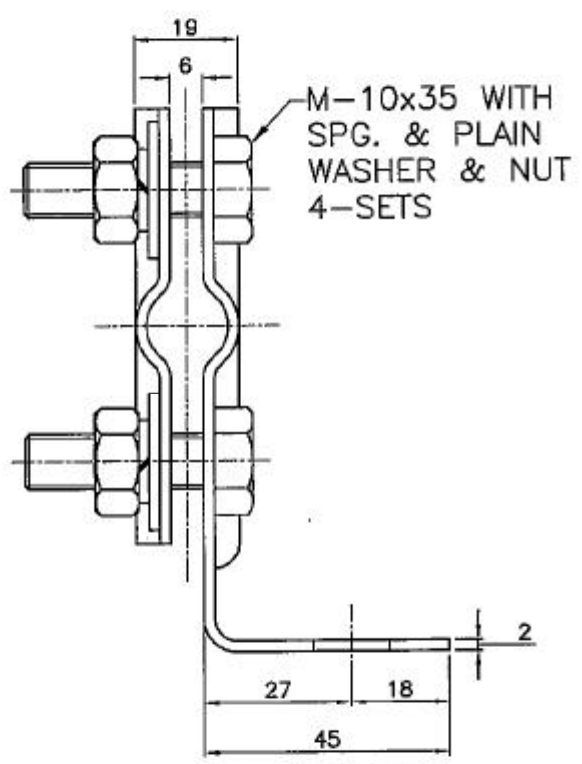
ALL DIMENSIONS ARE IN m.m.



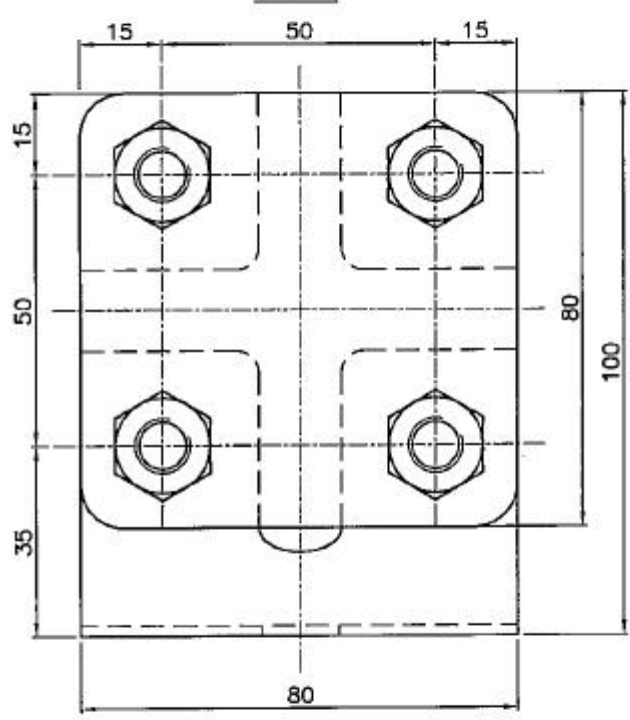
SUITABLE FOR CONDUCTOR SIZE
 Ø9 TO Ø16mm HORIZONTAL OR
 VERTICAL TAKE OFF



PLAN



ELEVATION



SIDE VIEW

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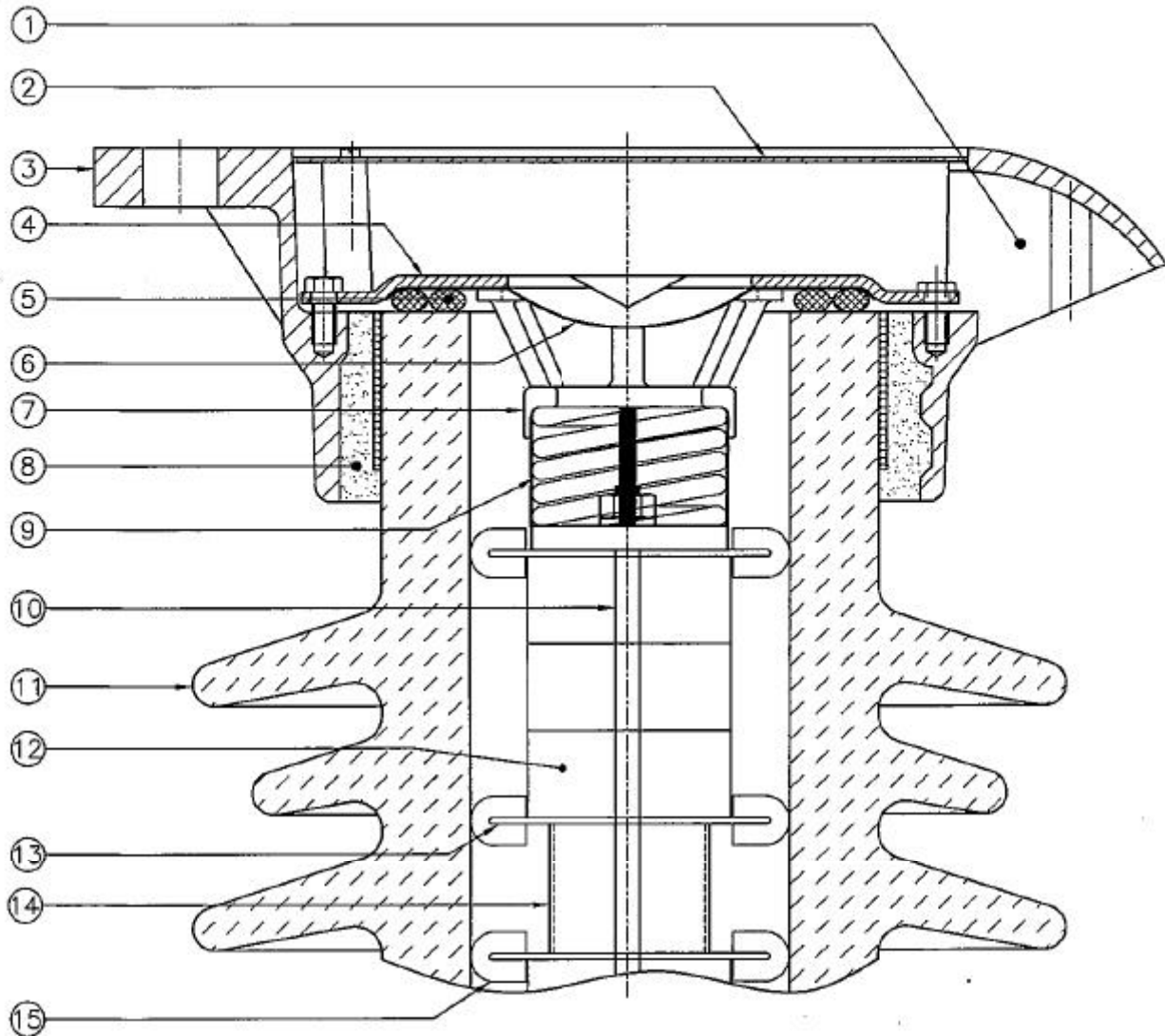
[Signature] 18/10/2011
 CHIEF ENGINEER / CONSTRUCTION-1
 A TRANSCO/VIDYUTH SOUDHA/HYD

CHECKED

[Signature] *[Signature]* *[Signature]*
 DESIGN DESIGN DESIGN

TITLE: TERMINAL CLAMPS	MATL: 2mm M.S. SHEET HDG
DRG. No.: TC-RBCYC-916	REV. No.: 0 DATE: 21/10/2011
DRN. BY: <i>[Signature]</i>	OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED
Standardised Drawing for 30 KV Lightning Arrestor(Oblum Electrical Industries Pvt.Ltd.,).	PRIVATE INDUSTRIAL ESTATE NAGAR 37 A.P. (INDIA)
STD/GTP-DWG/Approval No. 210-6-sheet 2 Revision No. 0	
Prepared & Approved during October - 2011	
Customer ref : APTRANSCO	
Title: Terminal Clamps (Rolled Type)	





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

CHECKED

APTRANSCO

APTRANSCO

APTRANSCO

- 8. SEALING COMPOUND
- 7. SPRING LOCATOR
- 6. PRESSURE RELEASE RUPTURE DIAPHRAGM
- 5. DUMBLE SEALING RING
- 4. PRESSURE RELEASE PLATE
- 3. END CASTING
- 2. COVER PLATE
- 1. PRESSURE RELEASE PORT

- 15. BUMPER
- 14. PIPE SPACER
- 13. CONTACT ELECTRODE
- 12. ZnO. ELEMENT
- 11. PORCELAIN BUSHING
- 10. INSULATING TIE ROD
- 9. COMPRESSION SPRING

TITLE:

PRESSURE RELEASE ARRANGEMENT

MATL: -----

REV. No.: 01

DATE: 21/10/2011

DRG. No.: ZAB-PRA-342081 DRN. BY: *Dr. Kumar*

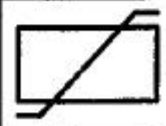
OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED

Standardised Drawing for 30 KV Lightning Arrestor(Oblum Electrical Industries Pvt.Ltd.,)..

STD/GTP-DWG/Approval No. 210-6-sheet 3 Revision No. 0

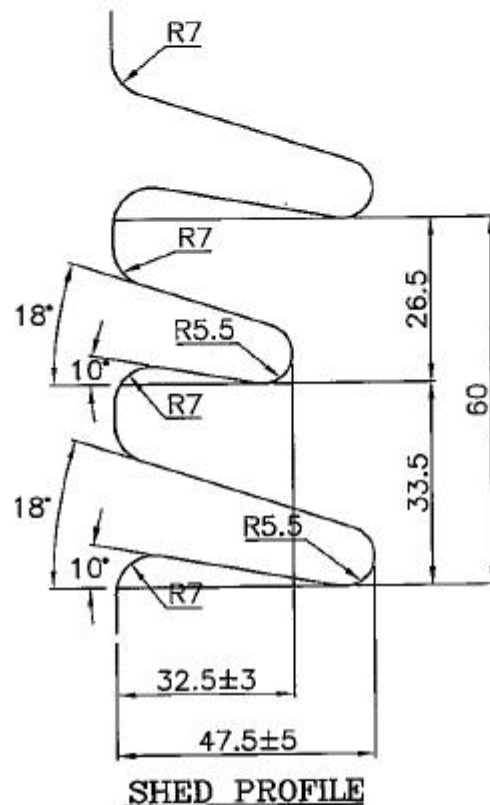
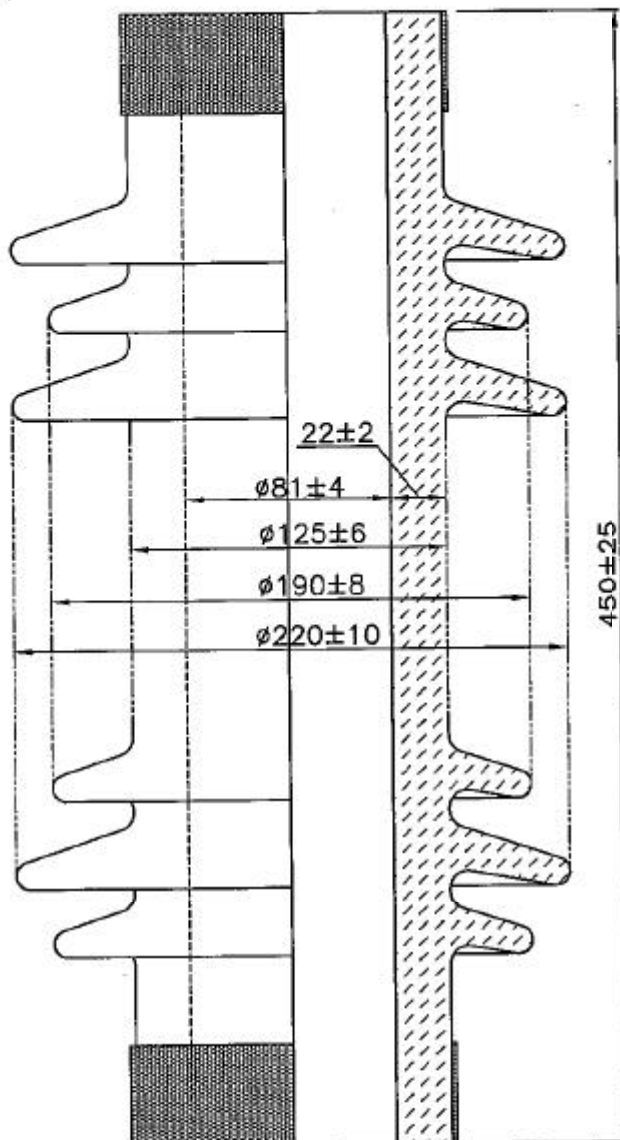
Prepared & Approved during October - 2011

PRIVATE INDUSTRIAL ESTATE
NAGAR
37 A.P. (INDIA)



Customer ref : APTRANSCO

Title: Pressure release arrangement



NOTE :-

1. MANUFACTURER : OBLUM INSULATORS
2. GLAZE : BROWN
3. SPECIFICATIONS : IS-5621-1980; IEC-815
4. TOLERANCES AS PER IEC-815 $\left\{ \begin{array}{l} \pm(0.04xd+1.5) \leq 300\text{m.m.} \\ \pm(0.025xd+6) \geq 300\text{m.m.} \end{array} \right.$ WHERE 'd' IS DIMENSION
5. TOTAL CREEPAGE DISTANCE : 900mm MIN.

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

CHECKED

[Signature] *[Signature]* *[Signature]*
 ADE-1/DN ADE-3/DN DE/DN

TITLE:

30kV PORCELAIN BUSHING

MATL: PORCELAIN

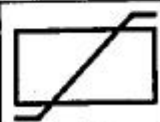
REV. No.: 0

DATE: 21/10/2011

DRG. NO.: ZAB-PB-3080

DRN. BY: *[Signature]*

OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED



Standardised Drawing for 30 KV Lightning Arrestor(Oblum Electrical Industries Pvt.Ltd.,).

STD/GTP-DWG/Approval No. **210-6-sheet 4** Revision No. 0

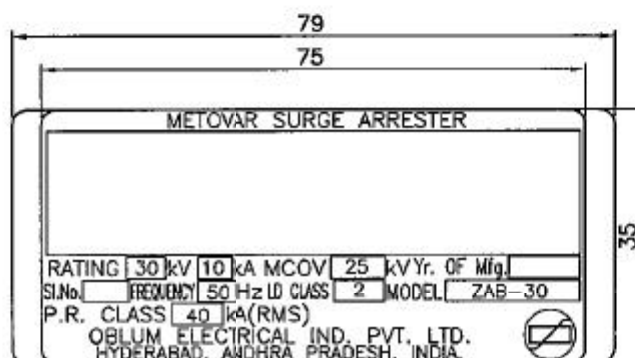
Prepared & Approved during October - 2011

VATE INDUSTRIAL ESTATE
 JAGAR
 37 A.P. (INDIA)

Customer ref : APTRANSCO

Title: 30KV Porcelain bushing

	Standardised Drawing for 30 KV Lightning Arrestor(Oblum Electrical Industries Pvt.Ltd.,).
	STD/GTP-DWG/Approva No. 210-6-sheet 5 Revision No. 0
	Prepared & Approved during October – 2011
	Customer ref : APTRANSCO
Title: Name Plate	



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

CHECKED

[Signature] *[Signature]* *[Signature]*
ADE-1/DN **ADE-1/DN** **DEVON**

TITLE: NAME PLATE		MATL: 0.5mm ALUMINIUM SHEET	
DRG. No.: ZAB-NP-30 DRN. BY: <i>[Signature]</i>		REV. No.: 0 DATE: 21/10/2011	
SCALE: N.T.S. APPRD. BY: <i>[Signature]</i>		OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED A-16&17 ASSISTED PRIVATE INDUSTRIAL ESTATE BALANAGAR HYDERABAD – 37 A.P. (INDIA)	
ALL DIMENSIONS ARE IN m.m. WITH A TOLERANCE OF $\pm 2\%$			



OBLUM ELECTRICAL INDUSTRIES PRIVATE LIMITED

A-16 & 17, Assisted Private Industrial Estate, Balanagar, Hyderabad - 500 037. A.P. (INDIA)
 Grams : OBLUM, Phone : 23771880, 23774184, 23772708, Fax : 0091 (040) 23771106
 E-MAIL : oblumelectricals@gmail.com, oblumelectricals@yahoo.co.in, oblumexports@gmail.com
 oblumelectricals@hotmail.com Website : www.oblum.com



Surge Arresters

GAURANTEED TECHNICAL PARTICULARS FOR 30 kV 10 kA -CLASS-II METAL OXIDE GAPLESS SURGE ARRESTERS

Ref. No. Sl. No	Description	30 kV 10 kA CLASS-II
1.	Name of Manufacturer	M/s. OBLUM electrical industries private Limited
2.	Arrester Class and Type	Station Class & Gapless Type.
3.	Applicable Standard	IEC 60099-4 & IS-3070 (PART-III).
4.	Rated Arrester Voltage (kV)	30 kV.
5.	Maximum Continuous Operating Voltage (MCOV)(kV)	25 kVrms
6.	Nominal Discharge Current (kA) with 8/20 μ sec wave	10 kA.
7.	Long Duration Discharge	Class-II.
8.	Minimum Energy Discharge Capability (kJ/kV)	4 kJ/kV (OD TEST)
9.	Maximum switching current impulse residual voltage at i) 1000 Amps. ii) 250 Amps	72 kV _{Peak} . 65 kV _{Peak} .
10.	Maximum residual voltage with 1 μ second current wave at 10kA(kV _{Peak})	100 kV _{Peak} .
11.	Maximum residual voltage with 8/20 (kV _{Peak}) μ sec.wave i) 5kA ii) 10kA iii) 20kA	85 kV _{Peak} . 90 kV _{Peak} . 100 kV _{Peak} .
12.	Safe Fault Current (kA)	40 kA.
13.	Lightning impulse withstand voltage of Arrester housing with 1.2/50 μ second wave (kV _{Peak})	170 kV _{Peak} .
14.	One minute power frequency withstand voltage of housing (dry/wet)-kv(rms)	70 kVrms
15.	High Current short duration impulse withstand level with 4/10 μ second wave (kA _{Peak})	100 kA _{Peak} .
16.	Pressure Relief Class	CLASS-'A'/40kA
17.	Over-voltage withstand Capability (kV _{Peak}) a) 10 seconds b) 1 seconds c) 0.1 seconds	49 kV _{Peak} . 51 kV _{Peak} . 53 kV _{Peak} .
18.	a) Reference Voltage(kV) b) Reference current	Greater than rated voltage. 2 mA.
19.	Number of Units per phase & rating of each unit	Single unit of 30 kV.
20.	Minimum Creepage distance mm(min)	900 mm.(minimum)
21.	Leakage Current (mA)	I _g =Less than 300 μ Amps. I _c =About 1200 μ Amps.
22.	Total weight of Arrester (kGS)	23 $\pm$ 10% kGS.
23.	Maximum Cantilever strength of Surge Arrester (including wind load)	325 kGM.
24.	Overall height of Surge Arresters(mm)	535 $\pm$ 25 mm.
25.	Maximum distance recommended from equipment to be protected by Surge Arrester(mm)	1 to 2 mtrs.
26.	Minimum distance between grounded object (mm)	700 mm.
27.	Minimum distance between Arrester phase legs (mm)	950 mm.
28.	Any other particulars	Will be provide if required

For OBLUM ELECTRICAL INDUSTRIES PVT.LTD.

CHECKED

(O.BALAGANGADHAR)
 MANAGING DIRECTOR

APPROVED FOR TURNKEY PROJECTS

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

SN0.1-APTRANSCO-4.30-C2.

29. 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.
 30. Quality of material & applicable standard - BIS. The manufacturer shall produce the valid BIS certification at the time of acceptance tests.

Standardised Guaranteed Technical Particulars for 30 KV Lightning Arrester (Oblum Electrical Industries Pvt Ltd make)

STD/GTP-DWG/Approval No. 210-5 Revision No. 0

Prepared & Approved during October - 2011

