



MEGHALAYA ENERGY CORPORATION LIMITED OFFICE OF THE ADDITIONAL CHIEF ENGINEER (EL) MATERIAL MANAGEMENT LUM JINGSHAI; SHORT ROUND ROAD; SHILLONG-793001 CIN : U40101ML2009SGC008274

Phone - 0364-2591930

⑦: ace.mm.meecl@gmail.com

General Terms & Conditions

- 1. **Scope:**
- i. Notwithstanding the quantity indicated in Price schedule the scope of work of this tender is to establish the unit rate of Hardware Items.

2. Accepting of Tender:

i. MeECL has the right to reject the Tender/ Tenders which do not comply with the Tender specification. The Tender/ Tenders which comply in all respect to the requirement as stipulated in the Tender Specification shall be wholly accepted by MeECL.

Name & Address of the tenderer should be indicated in a distinct manner

- iii. All the pages of the downloaded documents to be submitted to this office should be signed by the tenderer with date signifying acceptance of the relevant terms & conditions,
- **iv.** The equipment shall conform in all respect to the relevant IS codes (where applicable) except where otherwise mentioned in the technical specification as enclosed. The Tenderer shall assume full responsibility for adequate design and shall ensure that procedures/ Techniques conforming to the best modern engineering practices for the operating condition specified are used by the manufacturer.
- **Delivery** : Delivery shall be strictly within the time to be specified in the purchase order. Delivery refers to delivery at destination including unloading and placement on plinth unless otherwise stated.
- vi. MeECL reserves the right to accept/ reject any/all tenders without assigning any reason thereof and is not bound to accept the lowest rate.
- vii. Bid validity of the rate offered should be for a minimum of 2 (two) years with effect from the date of opening of tender.
- **viii.** L-1 Bidder will be expected to be able to supply the items when ordered at their quoted rates, failing which they may be penalized.

- **ix.** The tenderer shall note that the MeECL is not bound to place the purchase order with the firm quoting the lowest rates but reserves the right to split the order without assigning any reasons thereof to place the order partially or wholly on one or a number of suppliers. The offer of these items shall be on individual merit for bid evaluation purposes.
- **x.** Sample of items will have to be furnished when deemed necessary during the tendering process.
- **xi.** Make of equipment such as Insulators, GOAB, GO-DO, GO Switches on offer should have been tested at CPRI or national Test Houses. Type Test Certificate must be enclosed along with the Tender as support for the make on offer. Make of Stay sets, Hardware fittings should be specified in the offer and should conform as per specification in the tender document.
- **xii.** The Bid shall be submitted in 1 (one) seal Envelop containing 3 (Three) separate sealed envelopes properly super scribed as follows.

3 (i) Envelop-I:

Tender fee

Tender fee in a form of Demand Draft/ Banker's Cheque pledged in favour of the "Principal Account of MeECL, Shillong". The cost of the tender downloaded from MeECL website shall be INR 2000.00 (Rupees two thousand) only (inclusive of GST). Tender without proper tender fee as indicated at (i) above shall be summarily rejected.

4. (ii)Envelop-II :

Qualification of Bidder.

The Tenderer shall submit the following documents, failing which the bids shall be considered as non responsive.

- i. The local Bidders has to produce the Schedule Tribe Certificate and Electoral Photo Identity Card (EPIC) issued by the Election Commission to establish his/ her Indigenous identity along with GST Registration and PAN Card. This however does not apply to the Bidders already registered with MeECL.
- In case of Non-Tribal, the Bidder has to produce the Trading License issued by any of the District Councils (viz. KHADC, JHADC & GHADC) of the State of Meghalaya. However, the Residential Certificate, the Electoral Photo Identity Card (EPIC), to establish the identity as the Indian Citizen along with GST Registration and PAN Card & other relevant documents are also to be submitted. This however does not apply to the Bidders already registered with MeECL.

- iii. The Bidder/ Tenderer should have experience as per the Scope of this Tender for a minimum of 5(five) accounting year, ie, 17-18, 18-19, 19-20, 20-21, 21-22. Copy of the purchase order should be submitted along with the Bid.
- iv. Minimum average annual turnover (MAAT): The average annual turnover of the Bidder for the last 5(five) years should not be less than Rs 70.25 lakhs. Certified copy of the same should be submitted with the Bid.

5. (i) Envelop-III

Offered Bid : Break-up of Tender rates. The tender rates shall be furnished in detailed break-up viz. Ex-work, FOR Destination, Taxes, Freight and Insurance, etc. up to Shillong, Sumer. Rates are to be invariable quoted in the Schedule Format as Price Schedule.

6. Submission of Tender:

i. The Envelop I, II, III, stated above can be submitted in One Big Envelop properly sealed and should be addressed to : "The Additional Chief Engineer (MM),MeECL, Lumjingshai, Shillong".

7. Date of Submission of Tender :

i. The last date of submission of tender shall be 29/05/2023 (14:00 hrs)

8. **Opening of Tender**:

- i. The opening of Tender shall be in presence of the Bidder/ Bidders or their authorized representative. The opening of Tender shall be on the 29th May 2023 at 15:00hrs. The venue of the Tender opening shall be in the office chamber of the Additional Chief Engineer(MM), MeECL, Lumjingshai, Shillong. At the time of opening of Bid, only the envelop (i) Tender fee will be opened. Bidders are requested to note the same.
- 9. Address of Communication:
- i. The Additional Chief Engineer (MM), MeECL, Lumjingshai, Shillong.

Additional Chief Engineer(MM) MeECL, Shillong.

HARDWARE ITEMS

PRICE SCHEDULE - A

SI No	ITEMS	Unit	Total	Unit Ex- Works	Total Ex- Work	Unit (F&I	Total (F&I in	GST	Total
NO			Qnty	(Price in Rs)	(Price in Rs)	in Rs)	`Rs)		
1	HT Stay set Complete, HTL make	Set	545						
2	LT Stay set Complete, HTL make	Set	546						
	GI Stay Wire								
3	i) 7/10 SWG	Kg	1570						
Ū	ii) 7/12 SWG	Kg	170						
	iii) 7/14 SWG	Kg	1434						
	GI wire								
	i) 6 SWG	Kg	1						
4	ii) 8 SWG	Kg	222						
	iii) 10 SWG	Kg	1						
	iv) 12 SWG	Kg	1						
5	GI Barbed wire 12 SWG	Kg	190						
6	CI Earthing pipe 6' * 3" ISI	Set	206						
7	CI Earthing pipe 6' * 2" ISI	Set	55						
8	GI Earthing pipe 40mm dia.	Set	50						
	GI Pipe								
9	i) 25 mm dia	Mts	1						
	ii) 40 mm	Mts	1						
	GI Through Nuts & Bolts with washers								
	i) 5/8" * 6"	Each	98						
10	ii) 5/8" * 8"	Each	1802						
	iii) 5/8" * 10"	Each	1447						
	iv) 5/8" * 12"	Each	697						
	MS Nuts & Bolts								
	i) 5/8" * 2½"	Each	1						
11	ii) 5/8" * 3"	Each	238						
	iii) 5/8" * 4"	Each	1901						
	Danger Plates								
	i) LT								
12	ii) 11KV	Each							
	iii) 33KV	Each	1						
	iv) 132 KV	Each	1						
13	Phase Plate for 132KV Drawing	Set	1						
14	Number Plate for 132KV Drawing	No	1						
	M.S. Rod								
	i) 16 mm	Kg	1						
15	ii) 20 mm	Kg	1						
	iii) 40 mm	Kg	1						
	iv) 50 mm	Kg	1						

	v) 60 mm	Kg	1			
	GI Bend	U				
16	i) 25 mm dia	Each	1			
	ii) 40 mm	Each	1			
	GI Socket					
17	i) 25 mm dia	Each	1			
	ii) 40 mm	Each	1			
	Shackle Insulator					
18	i) 11.5 KN (Type -I)	Each	476			
	ii) 16.0 KN (Typr -II)	Each	2640			
	Shackle Insulator Straps Complete with N/B					
19	i) 11.5 KN (Type -I)	Each	1			
	ii) 16.0 KN (Typr -II)	Each	1709			
20	GI Pin for 33KV Pin insulator	Each	2507			<u> </u>
21	GI Pin for 11KV Pin insulator	Each	1707			<u> </u>
22	GI Pin for LT Pin insulator	Each	1235			1
	H/W Fitting for Disc insulator B/S type with tension fitting					
	i) Squirrel, 2- Bolted	Set	186			<u> </u>
23	ii) Weasel, 2- Bolted	Set	1059			<u> </u>
	iii) Raccoon, 3- Bolted	Set	649			<u> </u>
	iv) Wolf, 3 Bolted	Set	351			
	v) Rabbit, 3- Bolted 11 KV DO Fuse unit channel base type, HTL/Ruma make	Set	1			
24	i) 100 Amp	Set	102			
24	ii) 200 Amp	Set	213			1
	iii) 400 Amp	Set	23			1
	11 KV DO Fuse unit Bracket base type, HTL/Ruma make					
25	i) 100 Amp	Set	1			
	ii) 200 Amp	Set	1			<u> </u>
	33 KV DO Fuse unit channel base type, HTL/Ruma make					
26	i) 200 Amp	Set	91			<u> </u>
	ii) 400 Amp	Set	83			1
	11KV GOAB Switch, HTL/Ruma					1
	make	0-1				+
27	i) 100 Amp	Set	1			+
	ii) 200 Amp	Set	44			+
	iii) 400 Amp 11KV GO-DO Switch, HTL/Ruma make	Set	121			
28	i) 100 Amp	Set	1			
	ii) 200 Amp	Set	94			
	33KV GOAB Switch, HTL/Ruma make					
29	i) 100 Amp	Set	1			
	ii) 200 Amp	Set	22			
	iii) 400 Amp	Set	8			

			7				
	33KV GO-DO Switch, HTL/Ruma make						
30	i) 200 Amp	Set	7				
	ii) 400 Amp	Set	15				
	UPG Clamp Bolted type	001	10				
	i) Raccoon	Each	348				
31	ii) Wolf	Each	283				
-	iii) Squirrel	Each	1				
	iv) Weasel	Each	117				
	Aluminium Jointing Sleeves	Lach	117				
		Fach	4				
32	i) Raccoon	Each	1				
02	ii) Wolf	Each	1				
	iii) Squirrel	Each	1				
	iv) Weasel Chain Link fencing made from	Each	1				
33	8SWG,	Sqm m	1				
	GI Wire 2" mesh & 2.4 m height Chain Link fencing made from						
34	10SWG,	Sqm m	212				
~-	GI Wire 3" mesh & 1.8 m height						
35	Aluminium Binding Wire, 8 SWG	Kg	1				
	Pin Insulators						
	i) LT	Each	1890				
36	ii) 11KV	Each	2533				
	iii) 33KV, RRI make	Each	1				
	iv) 33KV, ABI make	Each	1248				
	Disc Insulator						
	i) 45KN, RRI/ABI make	Each	2049				
	ii) 70KN, ABI make	Each	1766				
	iii) 90 KN (Normal)	Each	164				
37	iv) 120 KN (Normal)	Each	1				
	v) 90 KN (semi-fog)	Each	1				
	vi) 120 KN (semi-fog)	Each	1				
	v) 90 KN (Anti-fog)	Each	1				
	vi) 120 KN (Anti-fog)	Each	1				
38	GI Angle (Different Standard Sizes)	MT	0.1				
	Guy Insulator						
39	44KN	Each	564				
	88KN	Each	416				
40	Earth wire, 7/3.15 mm	KM	1				
41	LT Fuse wire, 1.5 A to 600 A	Kg	1367				
42	Aluminium Paint	Lts	28				
43	Red Oxide Paint	Lts	105				
	· · · · · ·		otal	•	•	•	

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NATERIAL OF THE MARKED WIRES

 The size shall be manifoldered from steel by (0) process and shall not contain sufficient and physicscols exceeding 0.055 performs.

8

- (11) The vice shail be created with sinc of grade 2008 is accordance with 15:209 and the wite shall be generated in accordance with 15:2029.
- LIZE OF THE SALWANDER FITTER BARDED WITE

The galvanised stor, narred site shall be of the sites given beings -

Rominal lignets	1.55	Weight of bashed	the inspleted size	Perkesu ano
Line -Lie Toint	e wire (mn)	Maximum q	an Bilataun 1979	harbsCrind
	44		DN	362 10

7.26	2+00	2100	9.9	79 <u>+</u> 12	
				ter Spectrum	
				the second se	

0. TOLERANCEL

1.0

- The permissible deviation from the sominal dismeter of the line will and the point will shall not exceed - 0.0500.
- COMPRESSION OF THE VIEW
- The support of lays between the two convenitive borbs much warp between 2 to ".
- The balled wire dusti he formed by relating together two line wiret,one or both containing the balbs.
- The backets shall be no finished that the bout myThms are and and indices or right bingles or each other.
- The barry shall have a length of out terainan lime and out more than lime.The solute shall be sharp and 500 at an angle Hot greater than \$5° to the sime of the wire toyothy the bath.
- (a. The line size shall be in continuous length and shall not contain any welds other than those in the rod before it is drawn. The distance between two succession splices shall not be less than ism.

IPECIFICATION FOR DESIGN HAMDEACTIRE SUPPLY AND TESTING OF CALVANIESS STEEL BASED WIRL

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\$03££1

This operification covers the design manufacture, supply and testing of gelvenized stewl bailed wire for the purpose of fending.

CLIMATIC COMPUTIONS

The climatic conditions under which the material shall withsteed are as follows:-Average curvel reinfall days/year = 2200mn0fey (n 3ept) Average Co. of centy days/year = 5 months(May to Sept.) Average Co. of centy days/year = 50 Average Co. of centy days/year = 40°C Findman dry built temperature = 40°C Findman dry built temperature = 40° Isoceremnic level = 60° Relative (xumUdity = 71% to 93% Saximum wind pressure = 1500/47°

三 等物液体积0

The barbed wire that nomply in #11 respect with the requirements of the latest edition of IS:278, where the liten contine to any other standers which ensures an equal or better quality than the standers many barber above, the wallone points of difference integan the standard adopted and the showe standers and the clearly brought out in the tender.

4. DEREVITENESS OF THE TOTERS

The tender that he complete (n all respect. The tenderut shall unly separately the teneting of the galuanteed start wire.

5. DESCRIPTION OF THE MARKET WIRE:

a) TypE:

The galvenised steel barbed wire shall be of either σf the following two types.

Type A(10%A Type)-The barbed shall have four joints and shall be formed by twisting two point wires,each two turns, tightly scound both line wires making altogether four complete spree.

Type Bfollider typeTetme barbed shall have four points and shall be formed by twisting two point wills, each two norms, fightly around one line wire making stingesher four graplete turbs.

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VI. TESTS:

1

Refore despetch the G.I Mire shall be subjected to tests we per provision stipulated in IS-ING. If the purchaser minus to have a representative Test shall be performed in his presence by as to be witnessed by bin.

All test reports shall be inimitted and get opproved by the purchases before despetch of the materials.

V41. <u>PACK11030</u>

. The while shall be supplied in 50-70% only.e-ch odd having single continuous length, sectorpil of wire shall be initably bound and fastened compactly and shall be protected by soliable stapping.

VIII, MARKING:

Yacm coll shall be provided with a lavel fixed firmly on the inner pert of the coll bearing the following information.

a. Handfacturer's name and trade mark.

h. Lot minimiz and coll number.

- 5 f 20.
- G, Urøde:
- e. Panu.
- 1. Loongth

81

- g. 151 certification mark, if any,
- 12. DEVIATION FROM SPECIFICATION:

All deviation from specification shall be separately listed as per proforms given in Annexorm-III in the absence of which is shall be presented that the provision of the specification are coupled by the tenders:

2. OURRANTIED AND TECHNICAL PARTICULARS.

The giverenteed and other technical particulars are celled for vide Annaxire-1 shall be fursished alongwith that tender. Any tender lacking complete information in this respect is likely to be rejected.

SCHEDULG OF REQUIREMENTS:

 $T_{\rm the}$ following G.I.Wires are required to be supplied by the (substati-

FL.	Description	Dyantity
12	0.1. HETE & SWC	
	11.2.18.2.04 (H - 5W)2	
32	(i.1.Wite 10.50G)	
A.c	0.1.W114 12 THR	

GRADEL_____

SPECIFICATION FOR THE SUSPER OF U.I. HINKE

This specification covers the design, tablication and and supply of solid 0.5. Water of different sizes for verifies applications in general electrical engineering purpose.

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The $\sigma_{1} \mathbb{T}_{*} \mathbf{v}_{1} (\mathbf{v}) + \text{ anall multiplication in all temperature the$ provisions of 15:200-1978 400 15:7687-1975 except wherein sponified, objectives if the product is as per any other standards. the sellent point of difference between the standard adopted and relevant indian Standard shall be clearly brought out in the tender,

MATERIALS OF THE G.L.WIRE

The wires shall be drawn iron wire rook conforming to 4... 15:78\$7-1975 of the latest version thereof.

The requirement for chemical composition for the wites shall conform to 18, 188).

 $D_{\rm be}$ wires whall be sound, from from split surface flows,rough lagged and imperient adges and other detriments! defects on the surface of the wires.

The wires shall be galvanised with "leavy Coaring"

as per latest variation of 18:4820, 19.

CONSTRUCTION OF THE WERES

OnApply. The wifel ensit is of the following grades: 83

NG.	0 MADE	Tennile Strengthiep)	
	meeled	306-550	127/23
11. Ag	r.d	550 ×900	

The G.1. wire shall be of solid type,

 \mathcal{Y}_{i} TOLERANCE:

The tolerance on mominal diameter at any vection of \mathbf{a}_{i} wite shall not exceed(+) (w) 2.5%

The maximum difference between the diameters at any iwo cruss-meetion of wires shall not exceed 2.5%.

Comid 7/-

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in cases where joints are permitted, they shall be made by welding or breaking. Joints in the same wire shall be separated by a length nut less than that shown in clause $IV\left(c\right)$ and initial in different wires in a strend shall not be less than JOR spart. TREEDOW FROM DEFECTS:

Each coil of the 0.1, wire whall be exconted to contain $_{\rm OI}$ weld follow on Splice other than in the rod metore is a drawn. The size shall be cliculat and shall be free from scale, friedclarities, imperfections, flow, splits & other defects, the size conting shall be conjulneeven and bright.

VEL MARKENGE

Each cull shall be provided with a level, fixed firely on the inner part of the coil, bearing the following information. (. Manufacturez's news and/or trade mark,

11, but numbers and coll numbers,

111. A brief description and guality of the material. (v. Keidhti

X11, 10.05 DEEL

, hern coil shall be wrapped in hession of centes and peried.

VIII. TESTER

Li SCOTIST TEST

Before despect?). Use galvanised usay strand whall be subjected to contine tests — par provision stipulated in the relevant standerds if the policiance elements have a replacemustice, test shall be performed in his presence struct to be

witnessed by him.

Reports of all type texts stipulated in the latest edition

of IS) 2141, shall be supplied. All Test Reports shall be subsitied and get approved by the purchasar before despitch of the equipment.

IX. GIARANTEED AND TECHNICAL PARTICULASS:

The guaranteed and other technical particulars are called for wide Annexate-1 shall be formitted along with that tender Any verder lacking complete information in this respect is likely to be rejected.

x. ORVIATION FROM SPACIFICATION

All deviation from specification shall be separately listed as per profotes given in Annexore-lift in the angence of which is shall be presumed that the provision of the specification are complied by the tenderer.

SPECIFICATION FOR THE SUPPLY OF U.I.STAY WIRE

1: 500FKr

This specification covers the design, fabrication and any for of 0.1. strended stawing of different sizes for sub-transvisebre and distribution lines and for earthing in sob-transvisebre and distribution line.

11. STANARD

The U.L.stay Wire etall confine in all respect to the relevant INCLAR -condentRivers applicable/except wherein specified, otherwise if the product is an per any other examinifies the malient point of difference between the standard enopres and relevant indian Standards shall be clearly broaden out in the tender.

111. MATERIAL OF THE G.1.STAY WIRE

a) The wice shall be monufactured from steel,made by any nuiteble provers and shall not montain #ulpour and prosphorous demonstruct. Obj percent Sect.

). The else small is conted with sinc of grade in 48 of 15 ± 209 .

c) The general requirement for the supply of delemined stay size attained the in accordance with later addition of tailars,

IV. (DASTRUCTION OF BIL WIRES)

a) (RAULD) The wires shall be of the following grades Brades Diraces Annual Paralle strangth funge Annual 20 annual 1001ad

boys 09 upto -mi (onluding 109mg/am²eboys 109 ym²

n) The galvaniesd stay strend shell be of Taxire construction. The lay of the strend shall be of the length lines to Table 1 to 3 in 15:2141-1908. The wires shall be so stranded together that when an evenly distributed pull is applied at ne ends of the completed strend, each wire take an equal share of the pull. c) The normal length of strend which shall be supplied without foints in the individual wires, excluding welds made in the rol hefore drawing shall be a piven below.

81.1 82.1	Migneter of wire in strand	Normal length without lights of weld, m)
1. 2. 3. 4. 5. 5. 7.	4.0 3:35 2.50 2:24 2.00 1.50 1.55	1008 1500 2750 7000 1600 5000 5000 3000
ý.	0,80	acon Constal 2/4

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IKCHNR AL AND GUARANTEED PARTICULARS FOR LT STAY SET

ANCHOR PLATE

- Hackness form or above;
- Sare not below 230 * 230 nmi with suboth edges.
- Li Well polyanized
- d) Materials MS Rolled Plate
- Adout 19min square hole at center for locking the place with the Auction tod

ANCHOR ROD

- ai i.eaalli 1830 nan or ebow
- (h) Threaded length 300 mm or above
- e) Diameter formit or above
- (i) Anchor plate and head. Square size 30 mm * 30 mm with thickness 25 mm baying matching square size cliank for locking the Anchor Plate.
- c) One ratcher lock mit, grooves must much the grooves in how flange
-) One check mit
- e) Muterialit M S
- id. Component well galvanized with extra care for threaded portion
- () Size not below 10.5 * \$0.5 cm with suboold edges
-) Both lock and check nots should be matching to the Anchor Rod thread such that punching of thread after assembly at site safeguards them against removal

\$

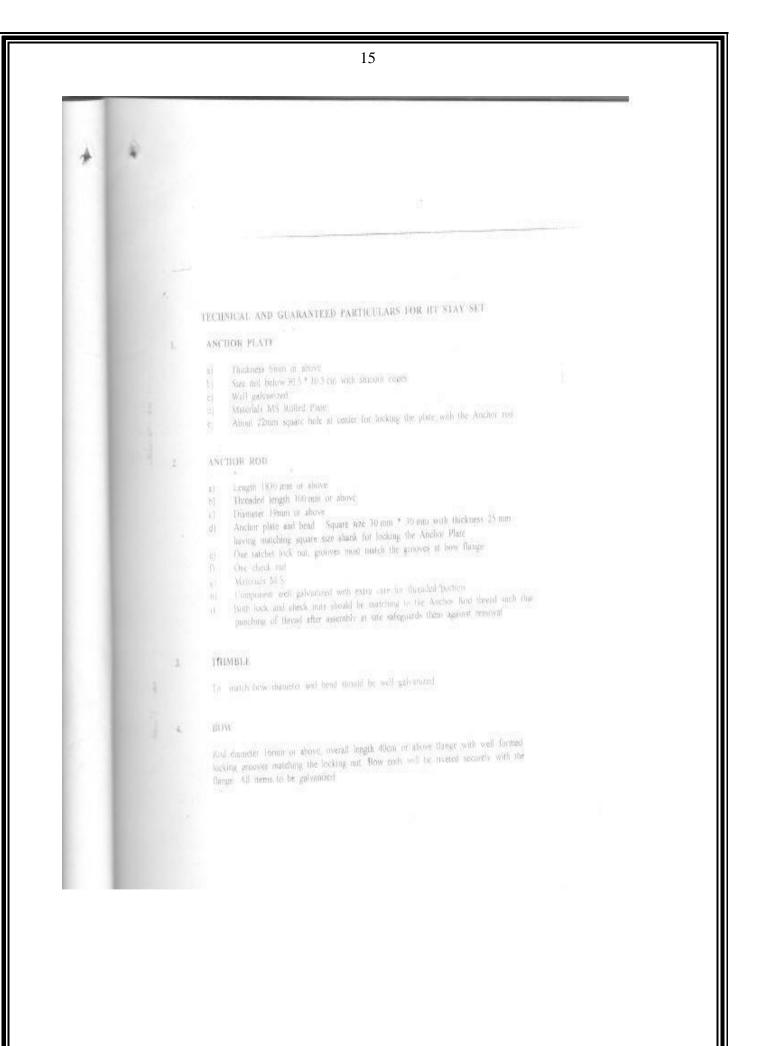
HEIMBLE.

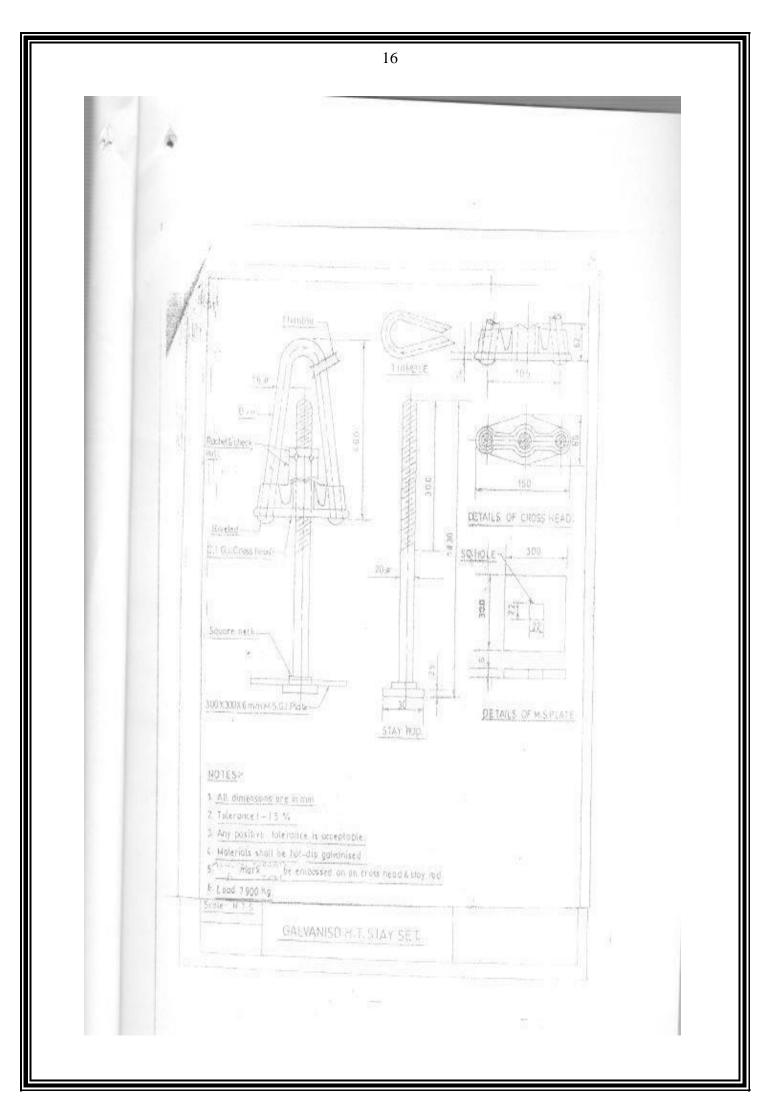
3.

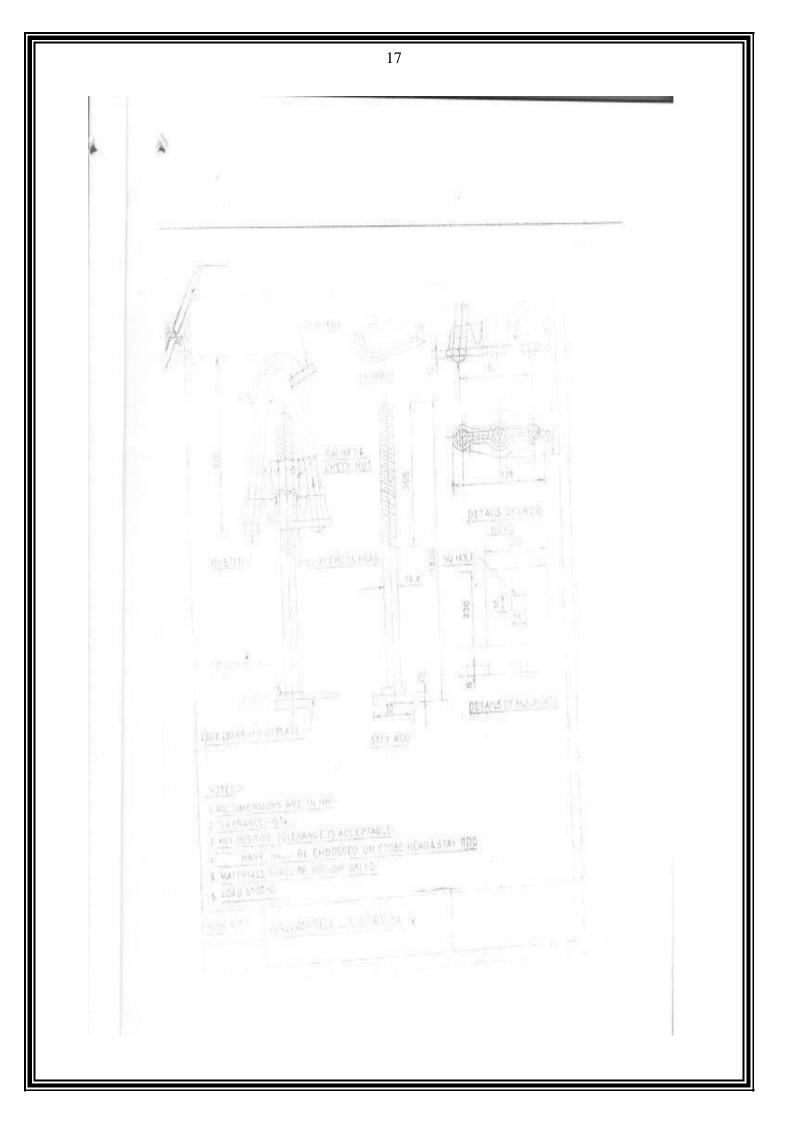
to match how diamates and bend should be well galvatured

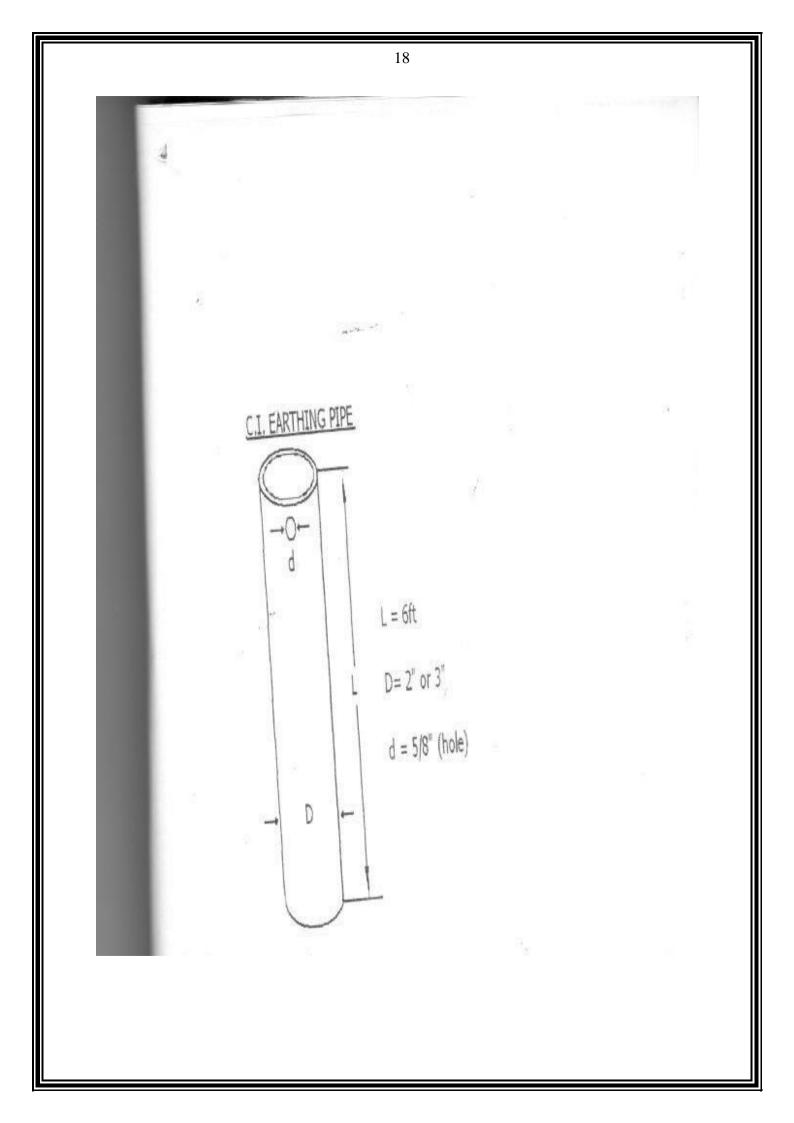
4. 100W

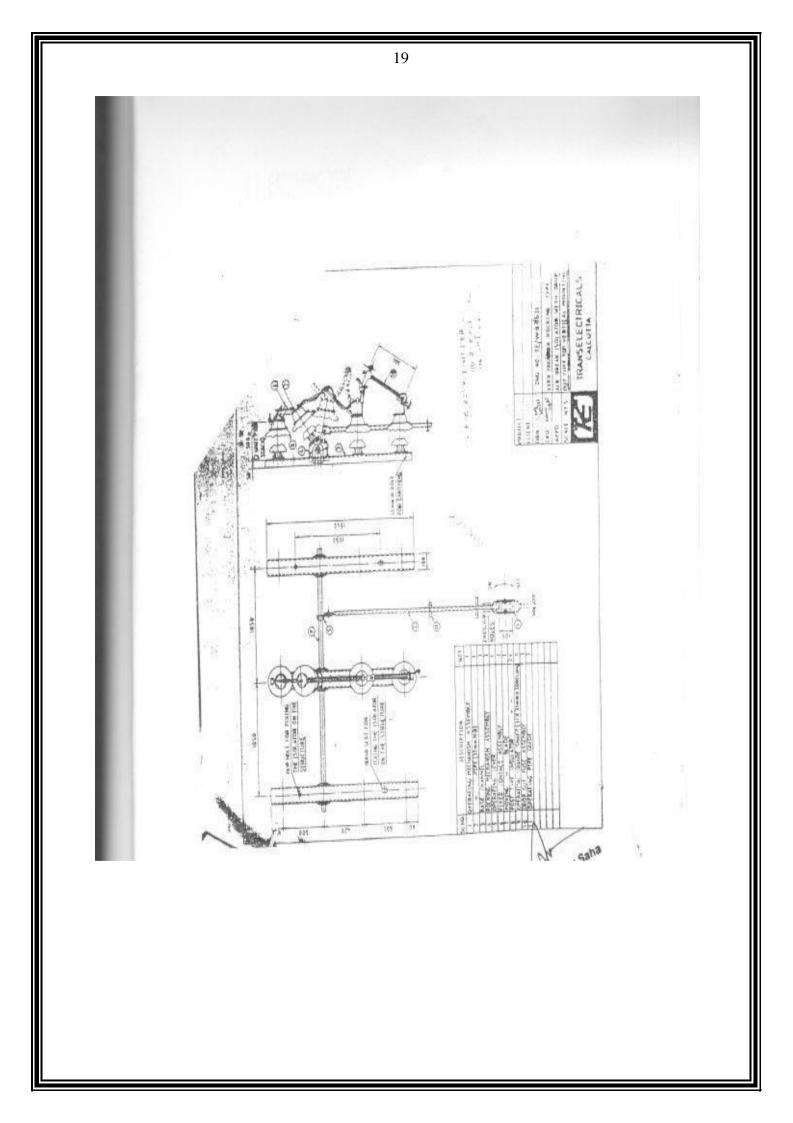
tool diminister benuit or above , overall length 37 cm or obsive; flange with well formed locking grooves matching the locking nut. Bow ends will be loveted accurely with the funge. All iteras to be galvanized

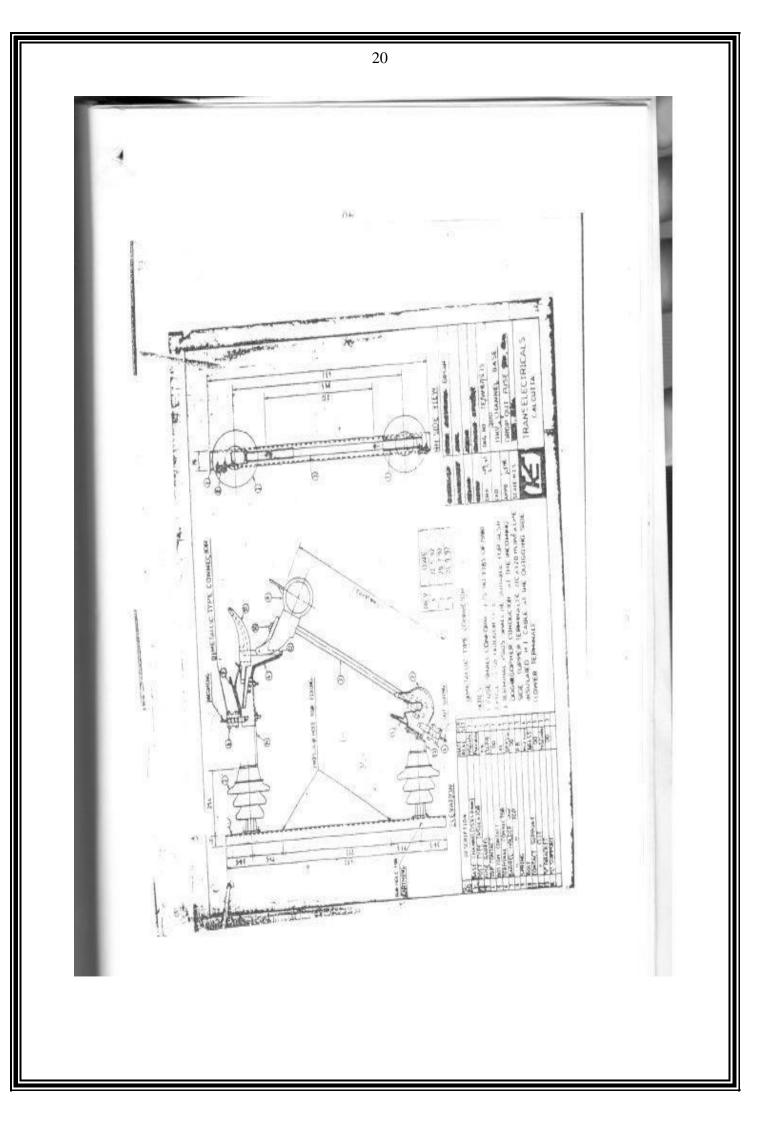


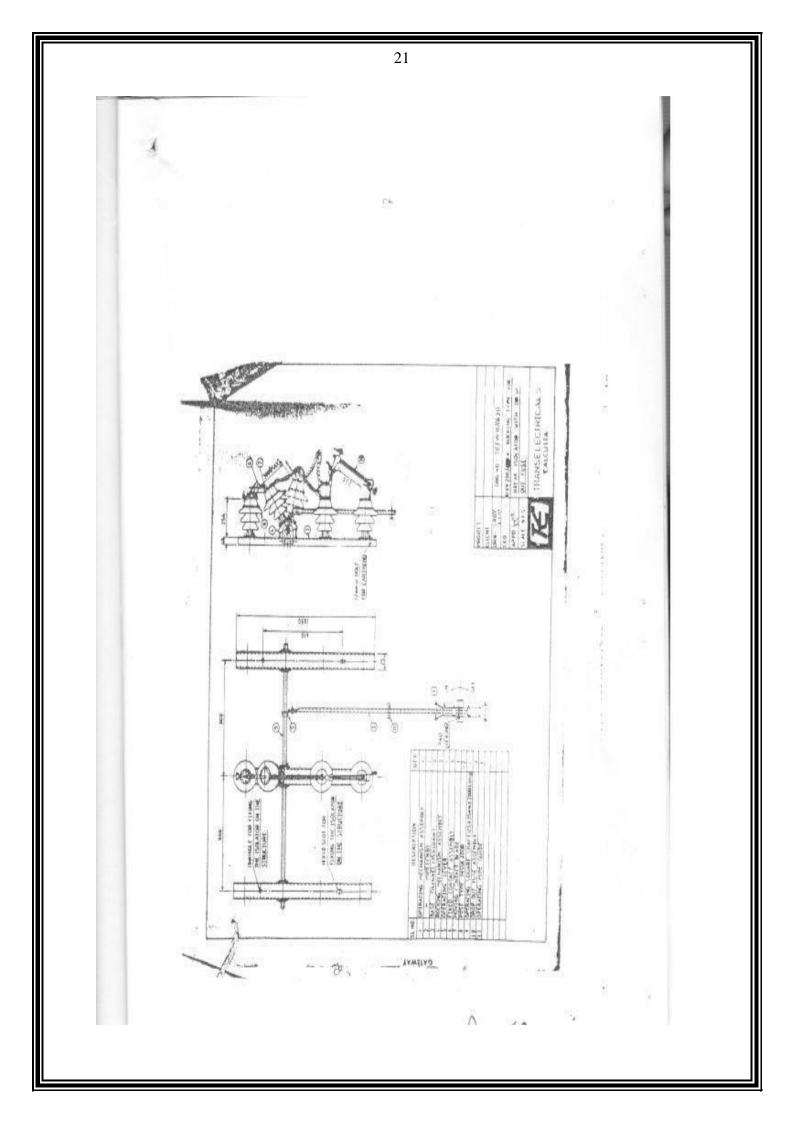












17. TYPE TESTS

The curout shall be subjected to the following type tests to

10.2

 Dielectric tests I rated impulse withstand and rated one minute power frequency withstand test voltages)

ii) Temperature rise test

The above tests shall be called out in accordance with 15:9381 Parts 1.6 II.

For Porcelam Fuse Base only

iv) Beam strength of potcelain hase

10 Pull out test for embedded components of the tuse base.

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18. MOUNTING ARRANGEMENT

- 18.1. The culous shall be provided with a suitable arrangement for moonting these on 75x40mm or 100x50mm channel cross arm is such a way that the centre line of the fuse base is all an angle 41.15° to 75° trum the vertical and shall provide the necessary relarances from the x pect. Mounting etrangement shall be robust enough to sustain the values sciences encountered during all operating conditions of the ruleut. For more details tere encountered figure 2.
- 18.2. Strength of the proponent marked i User ligurel that be derivitined by clamping the member with the dovrer log at the top to a rigid - coort by M-10 marriage bolts. A downward force shall be applied along the axis of M-14 carriage bolt parallel to the longer leg and in the direction of longer leg of the member inder test. A load of 10 Kg that be direction and then removed to take up any slack in the bounting arrangement before the measurement of position is taken, the permanent set missured at the axis of the M-14 carriage bolt shall not exceed LAmm when a load of 925 Kg, is applied and emoved.
 - [3.3, The strength of the M-15 bolt shall in no rase per gas than 19 A Kg and the strength of M-19 bolts not less than 1500 Kg.

19. TERMINAL CONNECTIONS

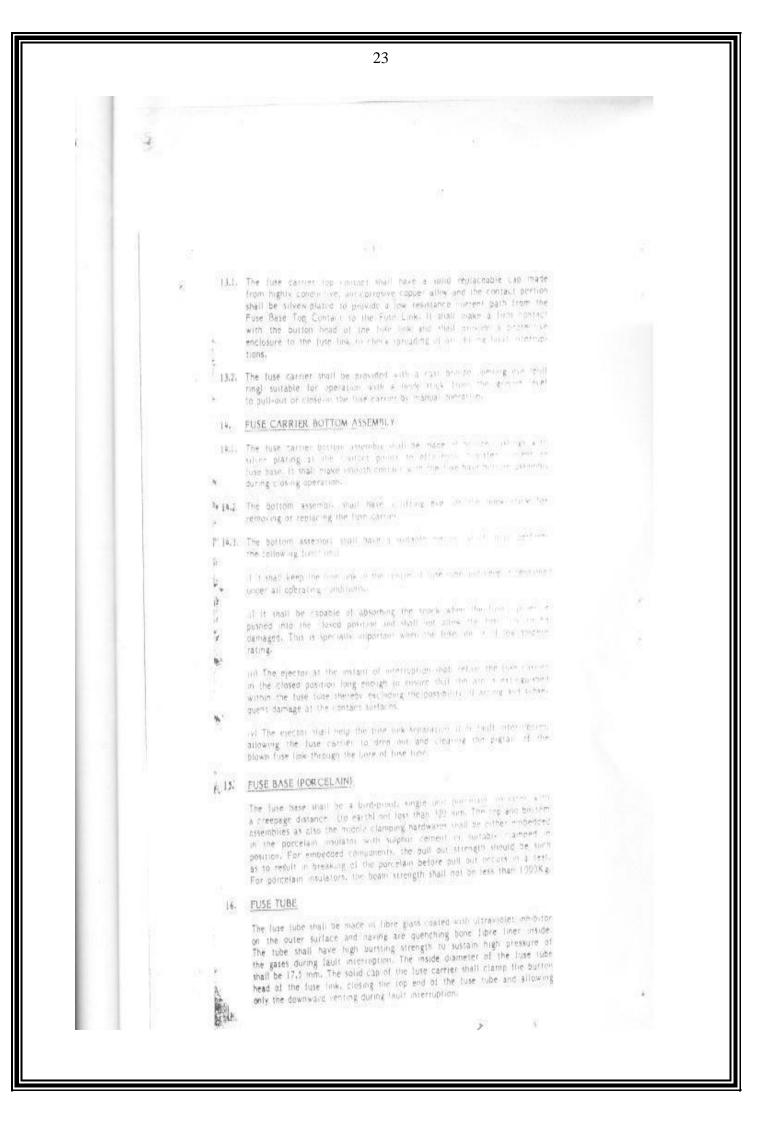
- The cutout shall be provided with two aluminum alloy 1 alloy designation 2280 (A-11) as per 15: 617-1975) terminal connectors at top and pittom of luse base assemblies to receive aluminium conductors of draineters
- between 6.3mm to 3.03 mm. These terminals shall be easily accessible irrespective, of the cutout location with respect of the pole. The terminals shall meet the test requirements of REC Construction Standard E-30.

INSPECTION

All tests and inspection shall be marke at the place of inanulacture uniess otherwise especially agreed upon by the manufacturer and the purchaser

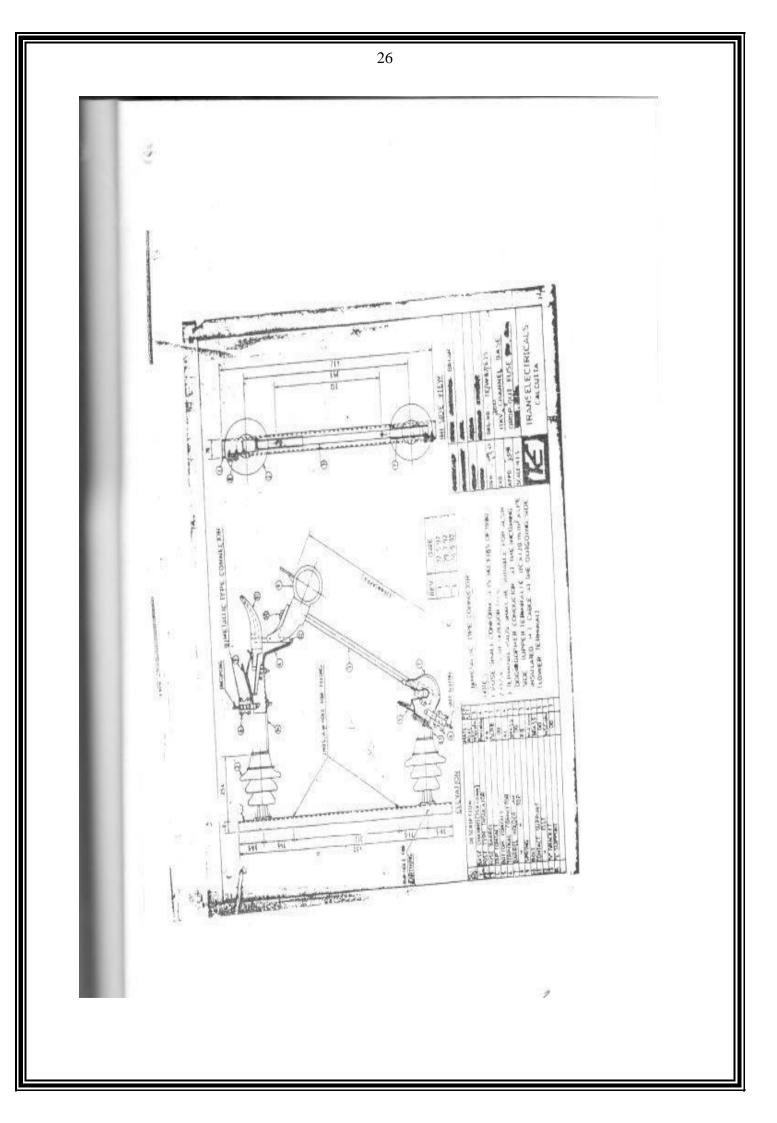
- at the time of purchase. The manufacturer shall afford the inspector representing the purchaser all reasonable facilities without charge, to satisfy him that the material is being furnished in accordance with this
- Hipecification.

The purchaser has the right to have the tests carried out at his own boat by an independent agency whenever there is doubte regarding the could be of supply.



(1). GENERAL REQUIREMENTS/ UNSTRUCTIONAL DETAILS. 10.1. The outputs shall be of single work type (downward) having a from condetled luse carrier suitable for angle momentally 10.2. All ferrous parts shall be his dir gal-anised in avoidable much one latest version of 15: 2633. Nits and bells shall induced to 15: 136- Saring. washers shall be mectrogalizationed. 10.3. Typical constructional defails of the futor often are should in Fig. 1. 11. FUSE BASE TOP ASSEMBLY Hile. The top current currying parts shall be showed a second constraint and copper alloy and the contact portion shall be sliver disted for introduce reservance and efficient current line. The children dutt back is to ker cashs for latching and holding, lineary the cost price and the latch mterfußlige is tomorriet at her the line "11.2. The top contact that we actuated by a strong story strong which knows it under sufficient prospers to maintain a frem control with the fore carrier during all "privating modulus. The screep shift all process Deviality and absorb most of the screeks when the fore corrects pushed into the Charle Stations $\Pi_{1} \mathbf{J}_{1}$. The context control p must of the according scaling production of $\mathbf{x} \mathbf{A}^{\mathrm{res}}$ and dust learning on the energy elementation of the el II.a. The tap collars the main chain a constraint and show more the angle and going to the the second constraint of the s the careful is closed at an officiency code "H.3. The tag assembly (0.1) cash an anomalies they before all complete complete clause 1.91. 11.6 The trip assembly shall be oblight enough of upshift only of the forces Diring the first street lowing and approxy operations and dear of occ-trees the prior scale of radia day products a modal starting the first contract our one provider in more t 12. FUSE BASE BOTTOM ASSEMINALY 12.1. The conducting parts also her made of sign account, highly and a to a copper allow and the contact outline shall be shot plated for contention versistance and that preside a low resistance current part from the bottom (use matrixer rot for $= \{e_{i}: i \in {\rm Bullion} \ i \in {\rm mind}\}$, where $i \in {\rm Bullion}$ is 12.2. The bottom as enous shall have large nonlasts made from inght subjects a anti-contrastive competialities and that the contracts in the first term contact with the first contract pointing assembly. The first artist first the placed passive is or lifter from the surges without in a manufacture In addition, the notion assembly shall perform the following time trees I When opened manually or after first investophore the low street shall swing through 180° to the certical and its further travel shall be prevented by the fine base bottom assembly. ii) The fuse carrier shall be prevented from slipping out of the self looking hinges during all speraring conditions and only when the fuse carrier has reached its fully open position can it be recoived from the hinge support. Tal. The assembly shall have on unmonous allow remainal connector (refer clause 19). FUSE CARRIER TOP ASSEMBLY

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	 13. MOUNTING relations. 13. The currents shall be provided with a strategy experiment we can be used in the control of the interpret of the i	
	20. INSPECTION All tests and inspection shall be made at the place of manufacture unless otherwise especially agreed upon by the manufactures and the purchaser otherwise especially agreed upon by the manufactures and the purchaser at the time of purchase. The nueutaturer shall allow the inspector at the time of purchase all reasonable facilities without harge to representing the purchaser all reasonable facilities without harge to satisfy him that the material is being furnished in accordance with this specification. The purchaser has the right to hard the tests carried out at the own cost by an independent agens whenever there is dispute regarding the mality of supply.	

10. GENERAL REQUIREMENTS/ ONSTRUCTIONAL DETAILS.

10.1. The cutours shall beech single work type (downward) having a line (powerted fuse carrier surgole for angle monotolic

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- 10.2. All ferrous parts shall be hut dip gaisarised in accordance with the latest version of 15: 2633. Nots and boirs shall outprin to 15: 1164. Spring washers shall be electrogal vanised.
- 10.3. Typical constructional details of the fuse inform the shown in Fig. 1.

11. FUSE BASE TOP ASSEMBLY

- 11.1. The top correct corrects parts shall be made of a right, one for copper alloy and the operant performs shall be strend parts for corrector resistance and efficient reariest flow. The performance and building to the force or content one fact cayity for latching and building forms the force or content one fact. interruption is conclusively writing the lase.
- till2. The top contact shall be uctualed by a strong stort spring which keeps It under sufficient pressure to manifally a firm increasing the total carrier caring all spreading indifferent. The spread shift site increases feedblits and spreads ones of the spreads along the toxe increases putnets into the Cluster, miction-
- 11.3. The current carrying parts of the assembly shall be protected to in white and dust formation by a standess steril top on pr
- [],a. The ten contact assembly shall have a count without other node to align and guide to final arrive into the workhy while even the
- fuse carrier is cloved at an util-conversionage
- $^{1}\mathrm{H}_{2}\mathrm{J}_{2}$. The top assembly in H mass an additioners allow resources connect a limit in clause 191.
- [1.6 The top assembly shell be robust enough to Aprilo bolk of the forces during the later terms losing and memory operations and $dr_2 h$ are successible to $r_{\rm e} = 0$ with the operation of the later success the torus with the dwall operation of the later success to the fose carries $(t_{ab}) \rightarrow (t_{b}) \rightarrow (t_{a}) \rightarrow (t_{b})$

12. FUSE BASE BOTTOM ASSEMBLY

- 12.1. The conducting parts shoul be made of logic Grouptic highly readenice copper allow and the entact and the short planet in contraction
- resistance and mall endlice a low resistance time part from my britten fuse "arries not far in the endtoin cerminal concernity.
- 12.2. The bottom assembly shall suce single contacts made 1 on register option to a anti-corrective copper alles and shall accounted, in Limas from contact, with the time carrier bottom assembly. The fixe arrive shall be placed easily, in or little from the binges without any manufacting in addition, the pottom assembly shall perform the following the total

prevented by the fuse base hotion assembly.

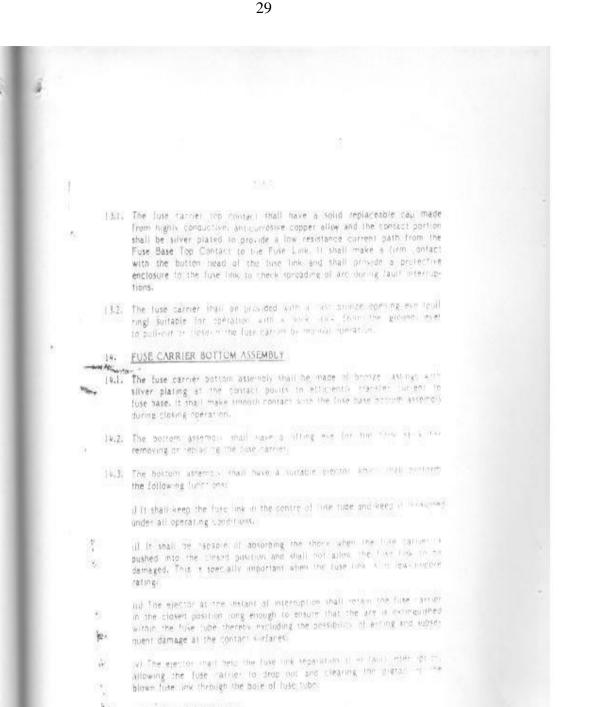
il) The fuse carrier shall be prevented from slipping out all the self turking hinges during all operating conditions and only when the fuse carrier has reached its fully open position can it be removed from the hings support1-

The assembly shall have an incommunication terminal connector (refer

A /

clause 19).

FUSE CARRIER TOP ASSEMBLY



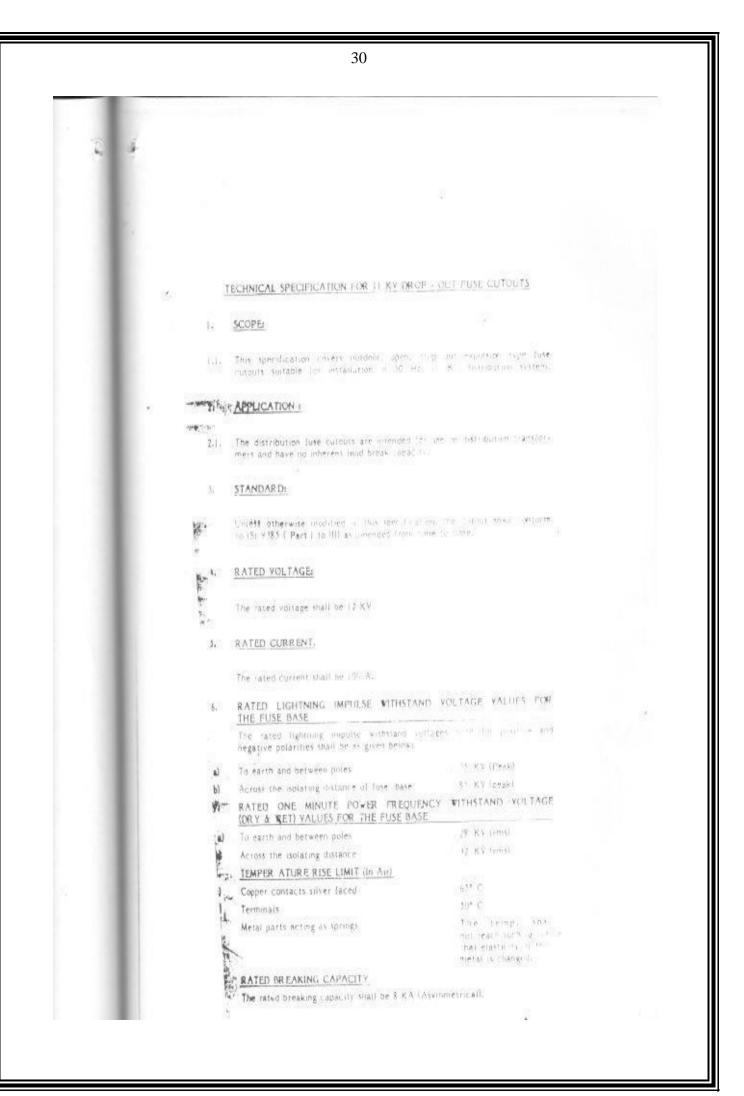
15. FUSE BASE (POR CEL AIN)

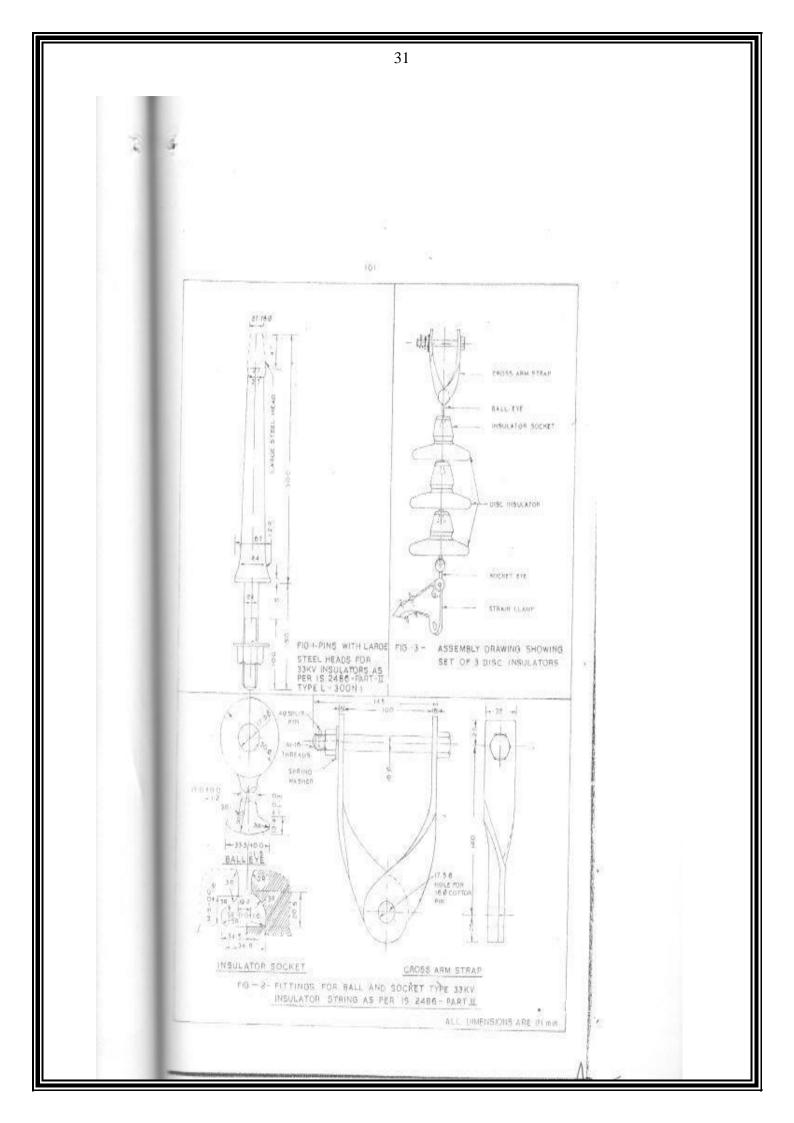
The fuse base shall be a bird proof, single unit proving a country with a creepage distance. (to earth) not loss than 320 mm. The top and be form assemblies as also the minible clamping hardwares shall be either embedded in the porcelain insulator with sulptur rement or surfacily clamped in position. For embedded computents, the pull out strength should be such as to result in breaking of the porcelain before pull out accurs in y testa to result in breaking of the porcelain before pull out accurs in y test-9. For porcelain insulators, the beam strength shall not be less then 1000Kg.

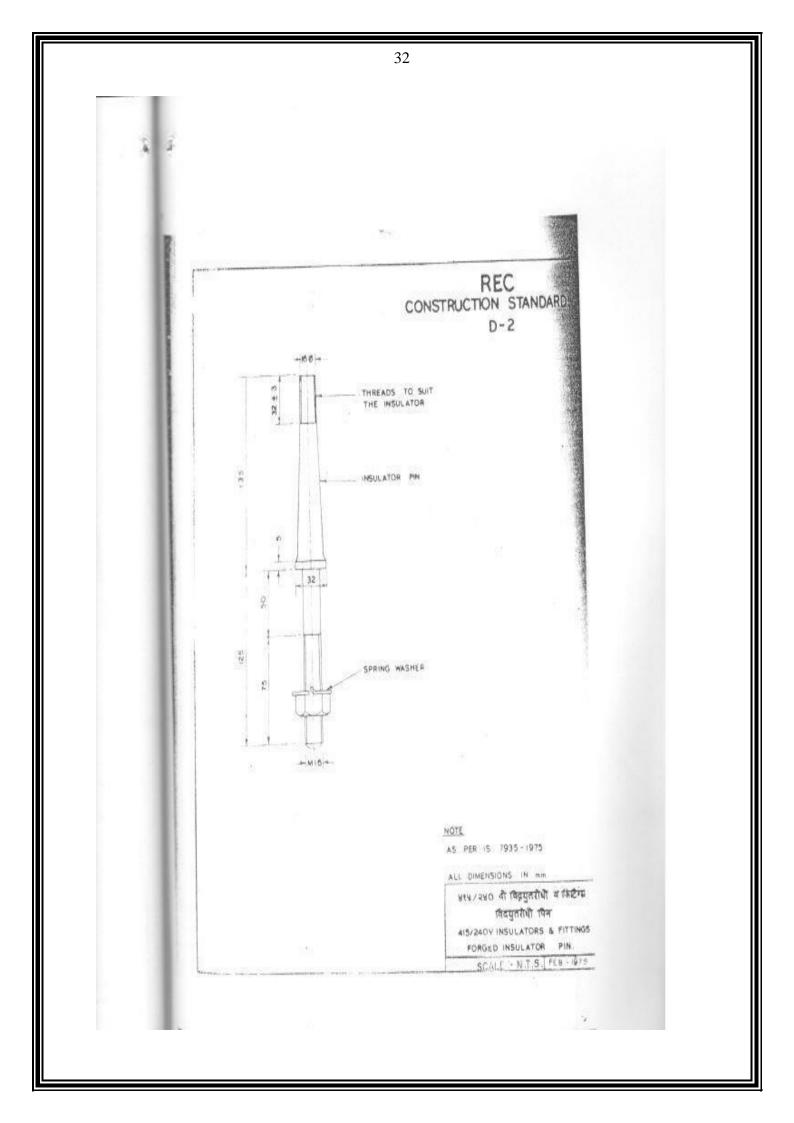
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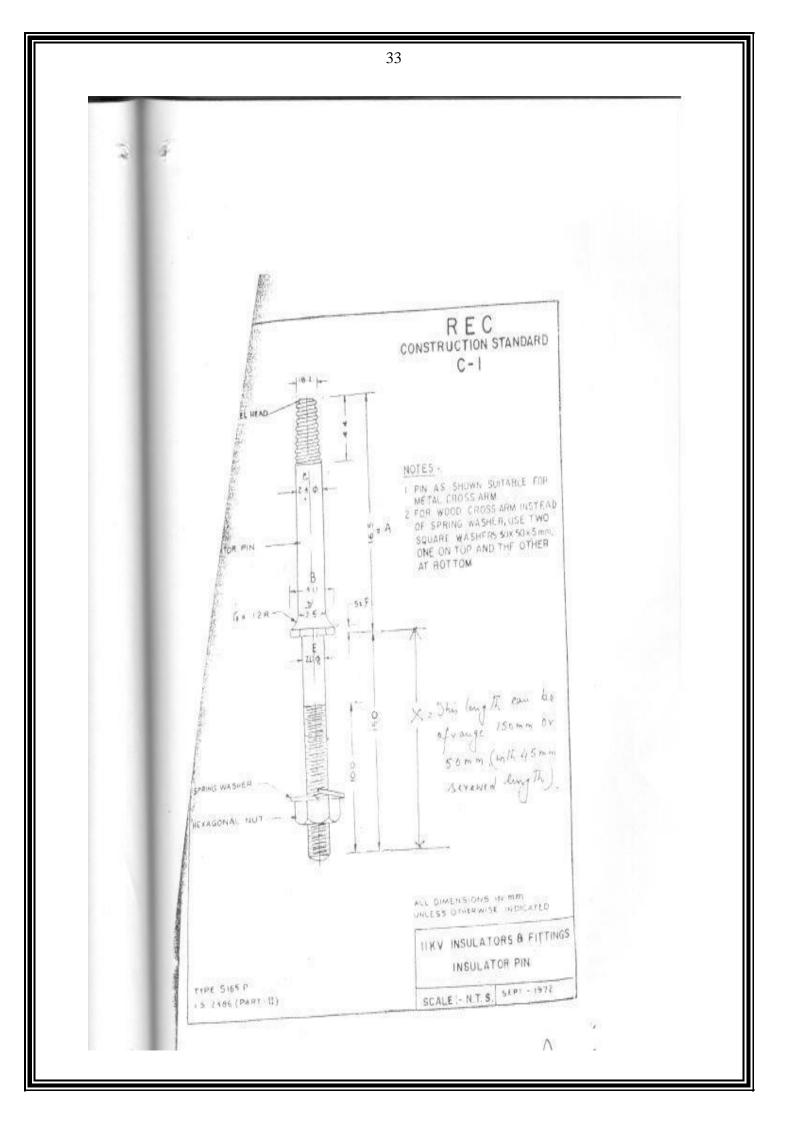
The lose tope thail be made of libre glass coated with different whibitor on the outer surface and having are quenching bone fibre limer inside. The tope shall have high dursting strength to sustain high pressure of the gases during fault interruption. The inside diameter of the fuse luce shall be 17.5 mm. The solid rup of the luse carrier shall diamet the buttom head of the tuse link, closing the top end of the fuse tube and allowing only the downward versing during fault interruption.

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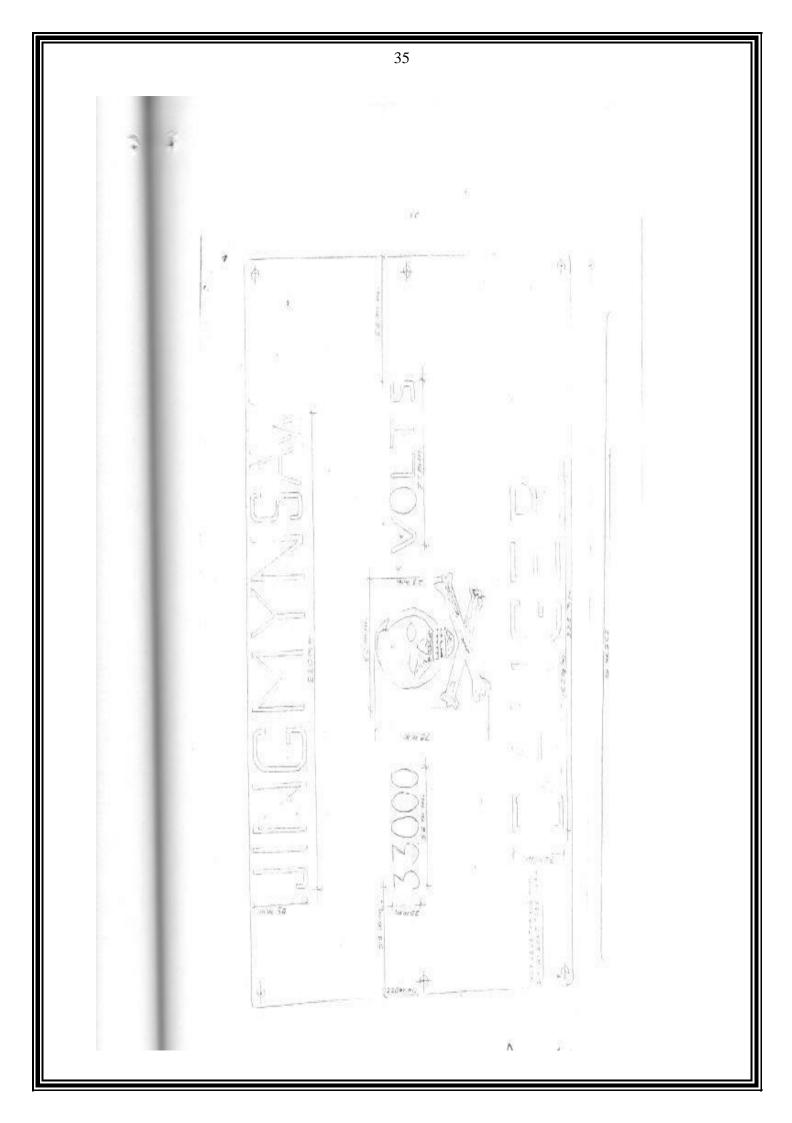






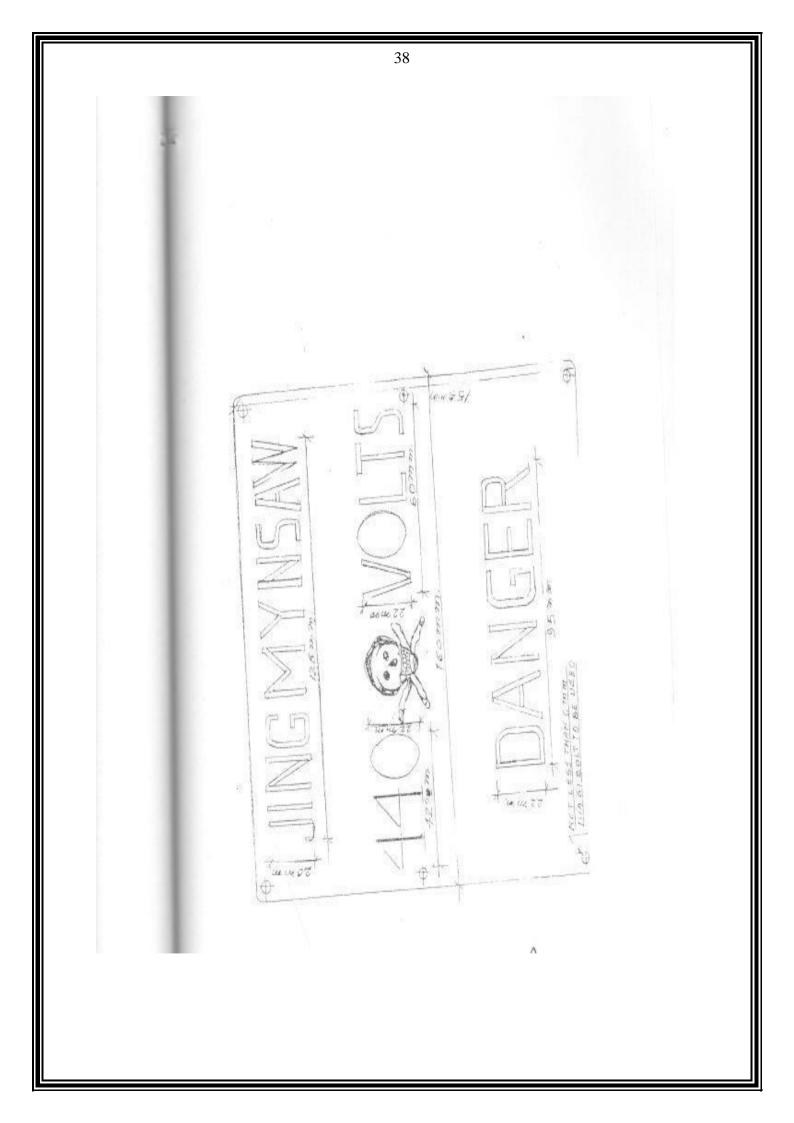


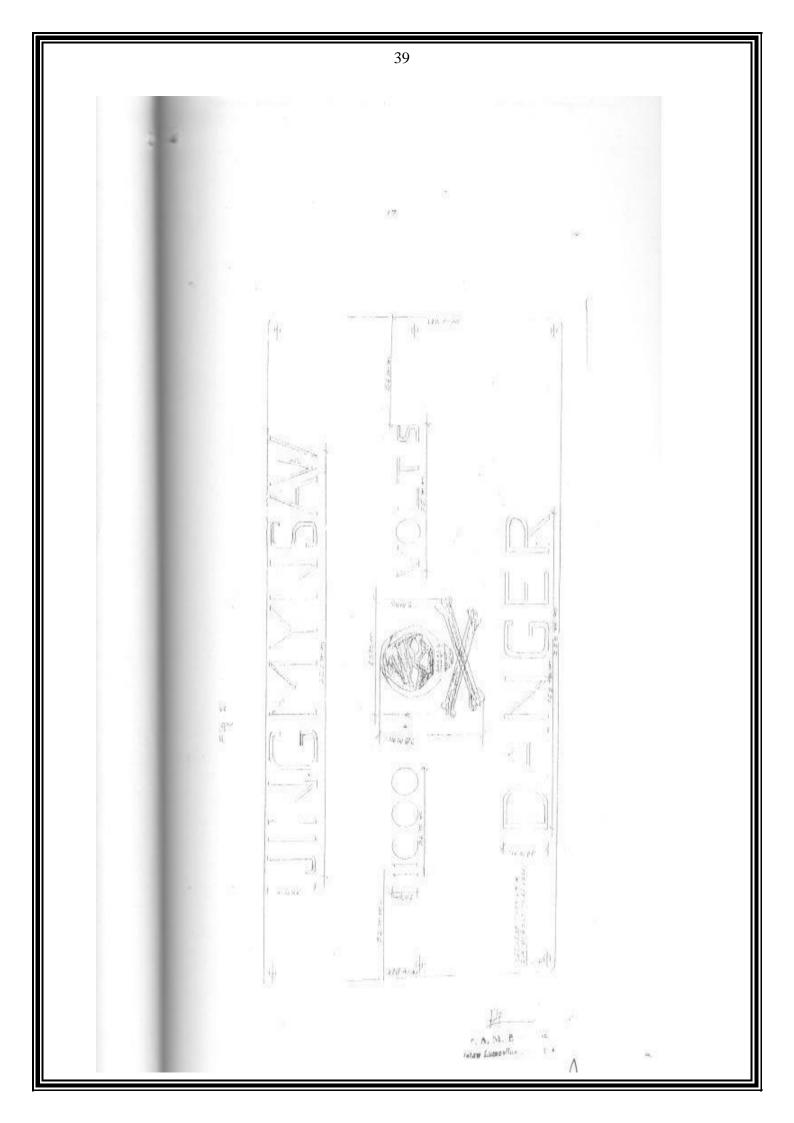












DESCRIPTION AND THE DESCRIPTION PROPERTY AND ADDRESS OF DANIER PLATE

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This specification covers the design, febrication SCHPE: and supply of Danger plates to be displayed on 300% ilow and 40% sub-station,sub-transmission line at the Khori & Jaintis Mills and Garn 11116 District of Regulaya,

Z. CLIMATIC CONDITION:

The climatic conditions at the site where the Wanger plates are to be installed are as follows:

Average Annual reinfell : 2280mm(May to Sept)

Average number of rainfall days i 5 wonthalWay to Sept)

Maximum dry bilb temperature : 40°C Minimum dry hulb temperature : 2*0 isoceraunic level 1 60 Relative humidity = 71% to 93% 1 150Kg/M2 Naximum wind pressure

3. STANDARDS:

51 The Uanger pletes shall comply all respect with the requirements of the latest offindian Stanfard) is Noi2551 except Whetein specified otherwise in these specifications. Where the Warper Plates conform to any other standard, the salient point of difference between the standard adopted and the Infian Standard whell be clearly broughout (0 the tender.

GENERAL FLATURES OF THE DANORS NOTICE FLATEST

њ - с	The plate shall be made from mild steel as least 1.0mm thick and sitrable enamelled shall and bongs 10 signel red colour on the front side. The peak side of the plate shall also be enamelled.
11.	
***	The covers of the Danger plates should be rounded off.
411,	Size of the Danger Notice plates shall be as follower
5175	*****************

Noul Yoltage st the installation _____ Size 1. 11000V and 11000W 335 x 220mm,

2.	440 Volte		16		14	'nm	
		12	3				

Iv. Drawing or danger motice places for 13000V,11000V and same installation are enclosed.

a. Unawipgs of danger notice plates for installation at the Knasi 4 Jaintis Mills Platfict are given in Figure-1. Fig-5 6 Fig-5.
 <u>ADDITIONAL ITMS</u>.

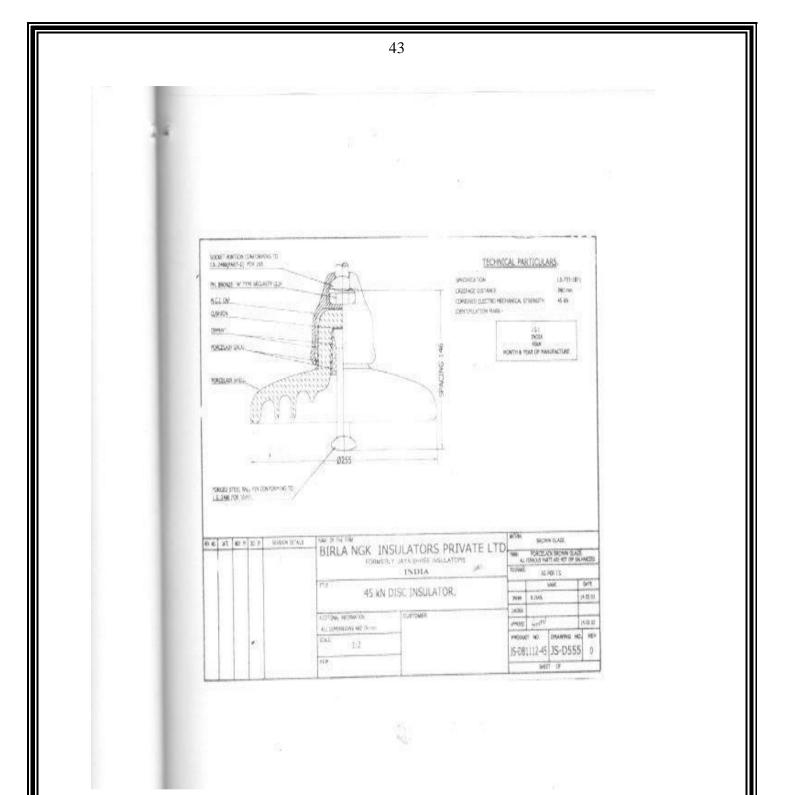
All additional items required for fixing the Danger plate which may not be specially mentioned in the operification but which are usual or necessary for installing the plate shall be demued as included in the contrast and shall be supplied by the supplier without extra driver.

DEVINTION. FROM SPECIFICATION:

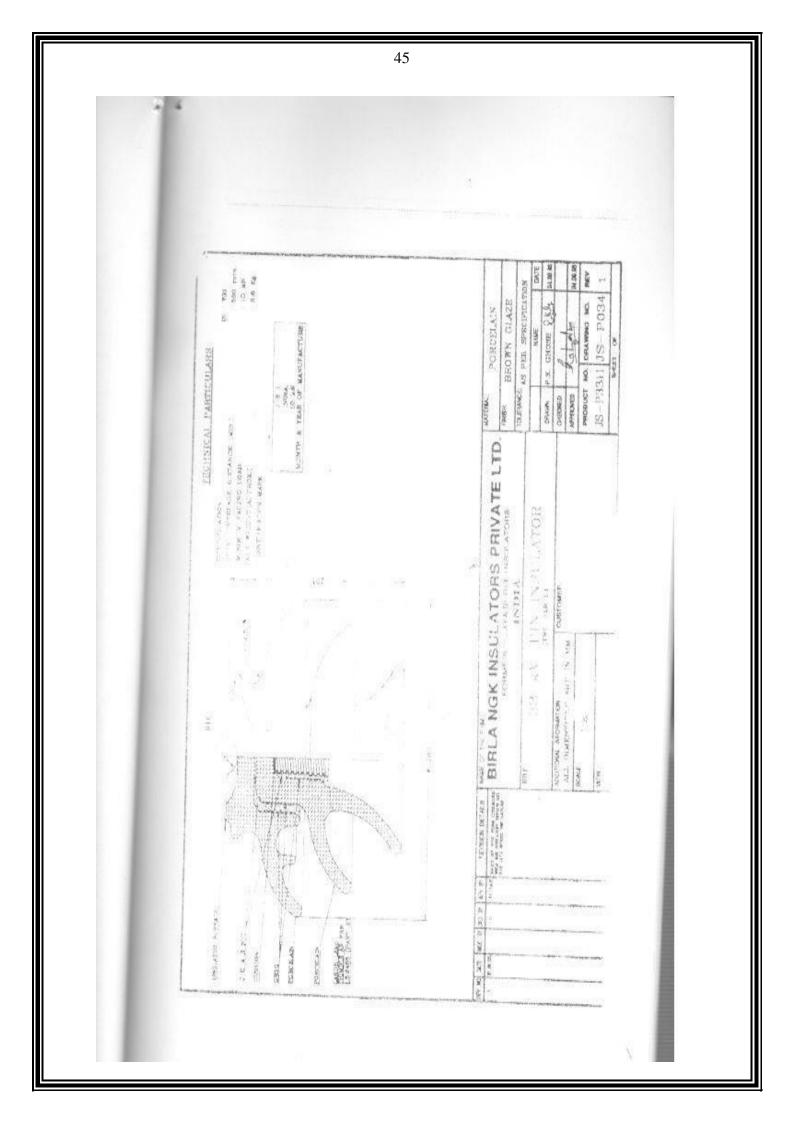
All deviation from specification shall be separately listed as per proforma given in Appexitabili in the alterna of which it shall be presumed that the provision of the specification are complied by the tenderer.

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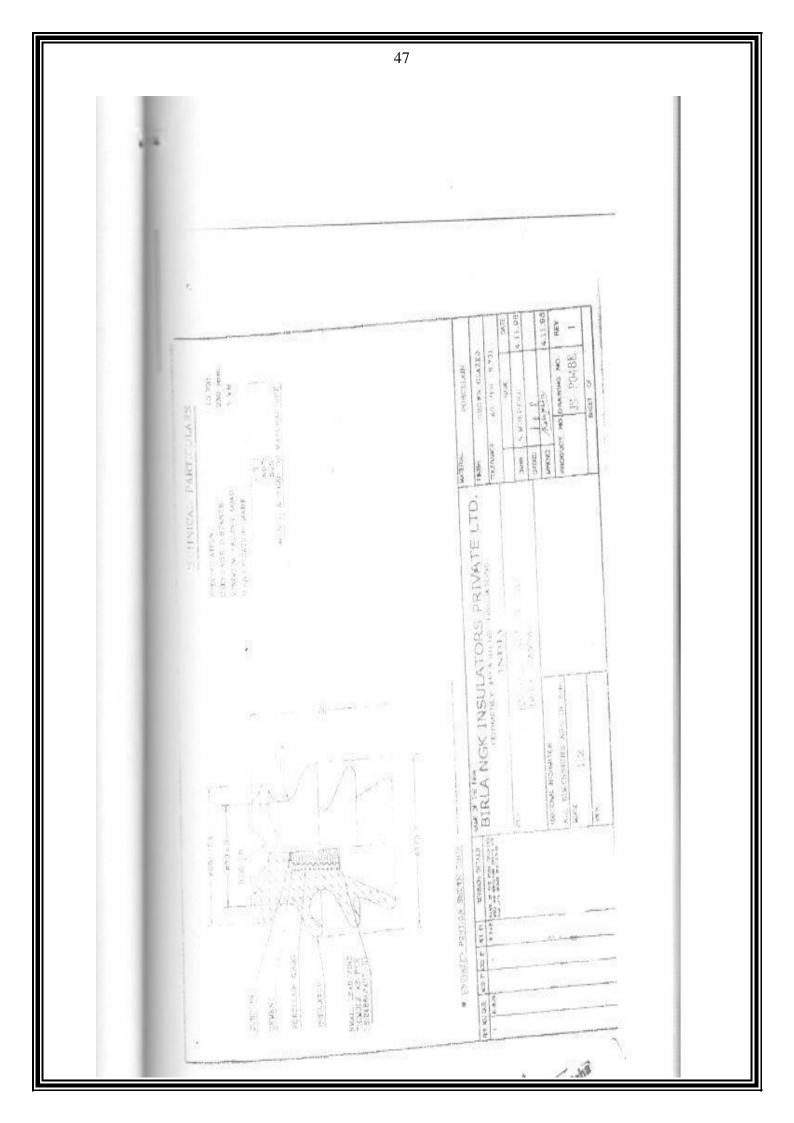
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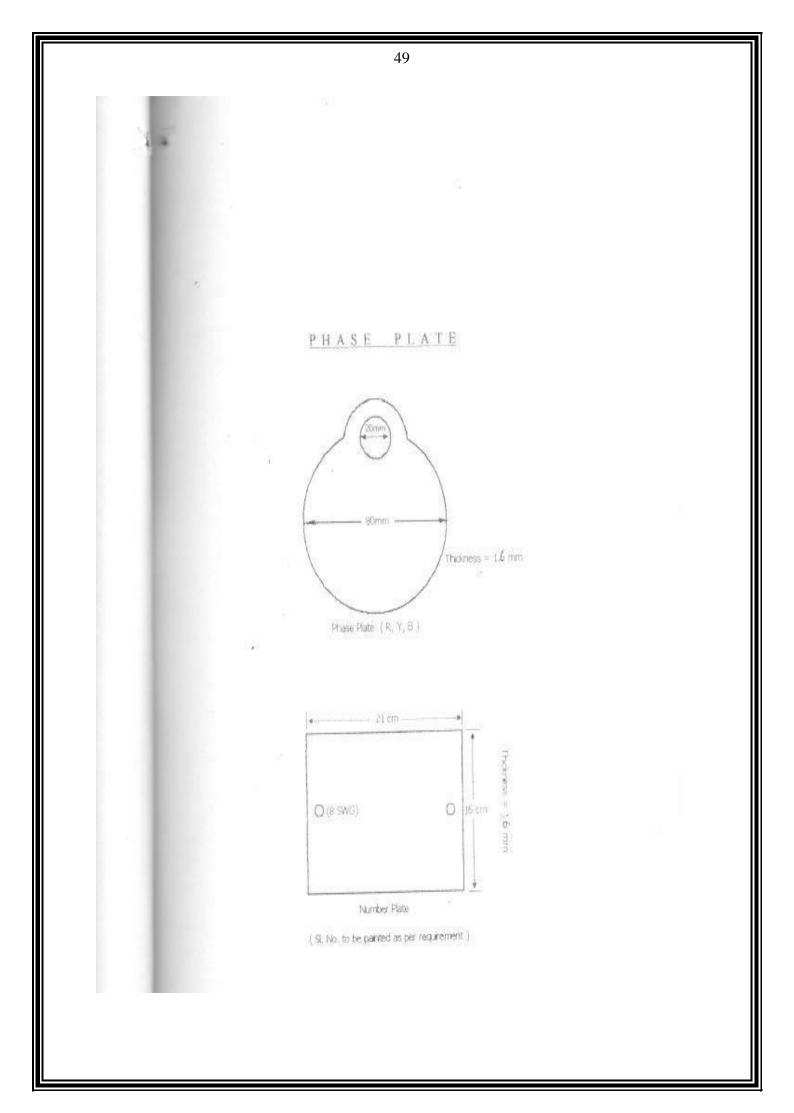
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SPECIFICATION FOR THE DESIGN, MANUFACTURE AND SUPPLY OF NUMBER PLATE

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SCOPE:

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This specification covers the design, fabrication and supply of number plate to be displayed on 1\$2kV lines at Khasi & Jaintsa Hills and Gora Hills District of Meghalaya.

CLIMATIC CONDITION:

The classific conditions at the site where the Number Plates are to be installed are, as

follows			
Average Annual rainfall		2280mm (May to Sep	tember)
Average number of numfall di	ays	5 months (May to Set	xember)
Maximum dry bulb temperate		$40^{e_{10}}$	13
Minimum dry bulb temperatu		2^{-C}	
Isoceraumic level	8 ⁰⁰ 3	60	
Relative humidity		71 % to 93 %	
Maximum wind pressure		150Kg/M ²	

GENERAL FEAUTURE OF THE NUMBER PLATE:

- The plate shall be made from mild steel at least 1 from thick and number as per requirement. The rear side of the plate shall also be enameled.
- ii) The Covers of the number plates should be rounded off
- (iii) Size of the Number Plates shall be as follows

SENo	Voltage at the installation	Size	
1	132kV	21 cm * 16 cm	

Drawings of number plates for number installation are enclosed

 a) Drawings of number plates for installation at the Khasi & Jaintin Hills are given in Figure – I.

SPECIFICATION FOR THE DESIGN, MANUFACTURE AND SUPPLY OF PHASE PLATE

SCOPE:

This specification covers the design, fabrication and supply of phase plate to be displayed on 132kV lines at Khasi & Jaintia Hills and Gora Hills District of Meghalaya.

2 CLIMATIC CONDITION:

The climatic conditions at the site where the Phase Plates are to be installed are as

follows:

3.

Average Annual rainfall Average number of rainfall days Maximum dry bulb temperature Minimum dry bulb temperature Jsoceraumic level Relative humidity Maximum wind pressore

2280mm (May to September) 5 months (May to September) 40°° 2°° 60 71 % 10 93 % 150Kg/M²

GENERAL FEAUTURE OF THE PHASE PLATE:

 The plate shall be made from mild steel at least 1 form thick and number as per requirement. The rear side of the plate shall also be enameled.

in) The Phase Plates should be of Red, Blue & Yellow paint for each set

in) Size of the Phase Plates shall be as per Drawing

Sec. 19 14

6. FRIEDW FRIM LEPECTS:

- The line and point wire shell be circuist in section, free from scales and other defects and shall be uniformly galvanised.
- 7. <u>TES19</u>

a. TENSILE TEST:

The completes highed wire and the individual (ine wire enail have breaking londs as specified belowing (SESILE peopleties)

Size of line wire (mm)	Tentils strength of wire ${\bf s}_{\rm q}/{\rm hm}^2$	Itee Minimum preating load of completed brabed wire m
2.24	46 to 60	300

The test on the line wire shell be carried out in accordance with 15:1521.

6. DUCTILITY TEST:

The wire shall πe subjected to the wrapping term in accordance with 15: 1955.

8. DEVIATION FROM SPECIFICATION:

All deviation from specifications shall be separated listed as par proforms given in Amexure-II in the absence of which it enall we presumed that the provision of the specification are complied by the tenderer.

9. HARKING

Every real of barbed wire shall be marked pightly on it the mame of the manufacturer, the type of the herbed wire, the diameters of the line and point wires, harb sparing and length of the real.

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