

1900/2000 (VARIABLE) 150 10 M 800 mm to 3850 mm (IMPLANTATION) $^{
m J}$ 14 CONTACT PLANE 9 13 5 12 (STAGGER) 16 ၂ဝ S TRACK AXIS CENTER OF TRACK ႞Ō

ENCUMBRANCE

HOOK EYE

5

CATENARY WIRE HOLDER CLAMP

DOUBLE TUBE HOLDER

STAY TUBE (55 x 6 MM)

STAY INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)

SILICON RUBBER / PORCELAIN

TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071

ALLUMINUM

AL. ALLOY

AW 6082 EN - 573 - 3 AISi7Mg0.6, UNE-EN1706/T6

AL. ALLOY

MAST BRACKET ASSEMBLY

6

TUBE CAP (FOR 55 MM TUBE)

TUBE CAP (FOR 70 MM TUBE)

14

DROP BRACKET

15

REGISTER TUBE (55x 6 MM)

ALLUMINUM

AW 6082 EN - 573 - 3

ALLOY

AISi7Mg0.6, UNE-EN1706/T6

Cu ETP

COPPER

Cu - ETP

16

SWIVEL CLIP

REGISTER ARM CLEVIS

3 12

HOOK CLIP

NORMAL BENT STEADY ARM ASSEMBLY

AL. ALLOY

AISi7Mg0.6, UNE-EN1706/T6 AISi7Mg0.6, UNE-EN1706/T6

AL. ALLOY

 $\vec{\Box}$

REGISTER ARM DROPPER

10

BRACKET INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)

SILICON RUBBER / PORCELAIN

AW 6082 EN - 573 - 3 TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071

ST. STEEL

ALLUMINUM

ALLUMINUM ALLUMINUM

AISI7Mg0.6, UNE-EN1706/T6 AW 6082 EN - 573 - 3 AW 6082 EN - 573 - 3 AISI7Mg0.6, UNE-EN1706/T6

2

BRACKET TUBE (70 x 6 MM)

NO.

DESCRIPTION

PART NO.

MATERIAL

SPEC. / STAND.

NUMBER OFF

AL. ALLOY

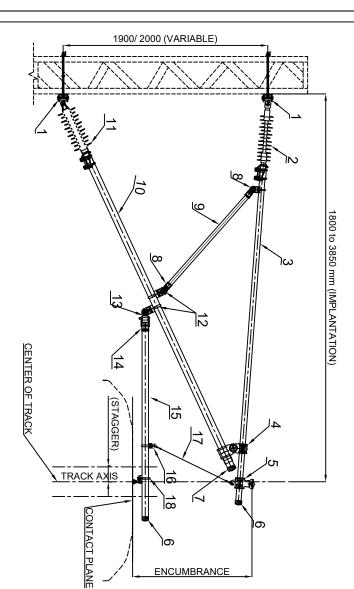
AISi7Mg0.6, UNE-EN1706/T6

NOTES:

- ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST.
- ALL STANDARDS SHALL BE TAKEN LATEST. INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED.
 HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, TUBE LENGTH, STEADY ARM LENGTH, STAGGER DISTANCE & ASSEMBLY DIMENSIONS MAY VARY FOR AS PER SITE LOCATION & AS PER IMPLANTATION CHART.

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REV.			DATE NAME					
	R.D.S.O.				INITIALS	NATURE OF MOD.	MOD.	DATE
	1-2	ADETI-2	<u> </u>		IAA. ISne	PULL OFF / PUSH OFF (TUBLER TYPE)	PU	
	22	JDTI-2	Z	χò	1BLY	MCA ASSEMBLY ON CURVED TRACK	\geq	



NOTES:

- ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR
- ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED.
 HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, TUBE LENGTH, STEADY ARM LENGTH, STAGGER DISTANCE & ASSEMBLY DIMENSIONS MAY VARY FOR AS PER SITE LOCATION & AS PER IMPLANTATION CHART.

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	" THI (MII REF	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	NO F
	THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	STAGGER SUPPORT ASSEMBLY FOR (OOR)	REGISTER ARM DROPPER	HOOK CLIP	REGISTER TUBE (55x 6 MM)	ASSEMBLY SUPPORT FOR REGISTRATION TUBE 55 MM	SWIVEL WITH CLEVIS ASSEMBLY FOR REGISTRATION TUBE	HOOK EYE	BRACKET INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)	BRACKET TUBE (70 x 6 MM)	CANTILEVER SUPPORT TUBE (42 x 4 MM)	THREADED CLEVIS ASSEMBLY (FOR 42 MM TUBE)	TUBE CAP (FOR 70 MM TUBE)	TUBE CAP (FOR 55 MM TUBE)	CATENARY WIRE HOLDER CLAMP	DOUBLE TUBE HOLDER	STAY TUBE (55 x 6 MM)	STAY INSULATOR - 1600 CD (COMPOSITE)/ 1050 CD (PORCELAIN)	MAST BRACKET ASSEMBLY	DESCRIPTION
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	ESIGNS AND STAI AND SHALL NOT E	AL. ALLOY	ST. STEEL	AL. ALLOY	ALLUMINUM	AL. ALLOY	AL. ALLOY	AL. ALLOY	SILICON RUBBER / PORCELAIN	ALLUMINUM	ALLUMINUM	AL. ALLOY	ALLUMINUM	ALLUMINUM	AL. ALLOY	AL. ALLOY	ALLUMINUM	SILICON RUBBER / PORCELAIN	AL. ALLOY	MATERIAL
	NDARDS ORGANIS 3E USED, COPIED ITING."	AISi7Mg0.6, UNE-EN1706/T6		AISi7Mg0.6, UNE-EN1706/T6	AW 6082 EN - 573 - 3	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	AISi7Mg0.6, UNE-EN1706/T6	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	AW 6082 EN - 573 - 3	TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071	AISi7Mg0.6, UNE-EN1706/T6	SPEC.
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		JDTI/OHE	<u> </u>	1)	Z		MCA MCA)	
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NO.

DESCRIPTION

PART NO.

MATERIAL

SPEC.

NUMBER OFF

AL. ALLOY

AISi7Mg0.6, UNE-EN1706/T6

2

STAY TUBE (55 x 6 MM)

DOUBLE TUBE HOLDER

CATENARY WIRE HOLDER CLAMP

STAY INSULATOR - 1600 CD (COMPOSI 1050 CD (PORCELAIN)

E)/

SILICON RUBBER / TI/SPC/OHE/INS/1072 OR PORCELAIN TI/SPC/OHE/INS/1071

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ALLUMINUM

AL. ALLOY

AW 6082 EN - 573 - 3 AISi7Mg0.6, UNE-EN1706/T6

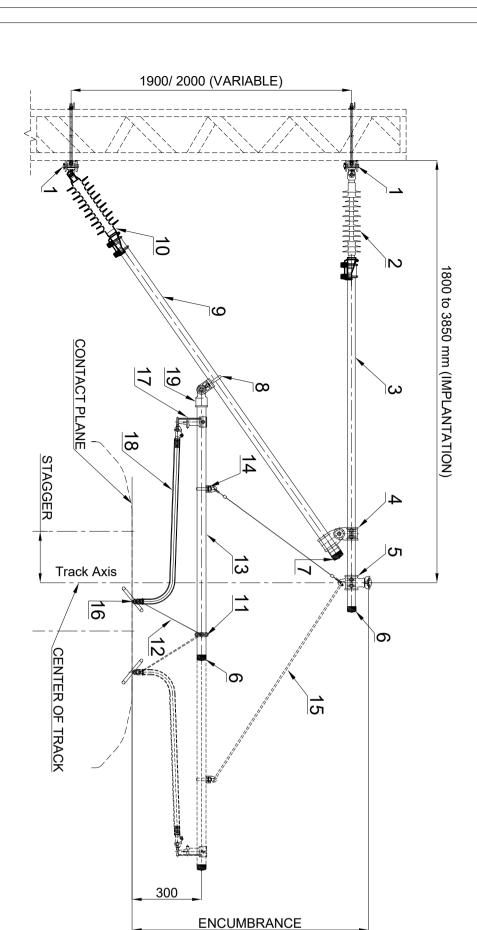
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MAST BRACKET ASSEMBLY

2445415/2023/O/o PED/TI/RDSO

ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED.
HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, TUBE LENGTH, STEADY ARM LENGTH, STAGGER DISTANCE & ASSEMBLY DIMENSIONS MAY VARY FOR AS PER SITE LOCATION & AS PER IMPLANTATION CHART.

ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR



16 15 14 13

REGISTER ARM DROPPER

HOOK CLIP

REGISTER TUBE (55x 6 MM)

ALLUMINUM

AW 6082 EN - 573 - 3 AISi7Mg0.6, UNE-EN1706/T6

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ST. STEEL

AL. ALLOY

AISi7Mg0.6, UNE-EN1706/T6

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ST. STEEL AL. ALLOY

NORMAL BENT STEADY ARM ASSEMBLY ASSEMBLY SUPPORT FOR REGISTRATION

AL. ALLOY

AL. ALLOY COPPER

AISi7Mg0.6, UNE-EN1706/T6 AISi7Mg0.6, UNE-EN1706/T6

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Cu ETP

AISi7Mg0.6, UNE-EN1706/T6

10

BRACKET INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)

SILICON RUBBER / TI/SPC/OHE/INS/1072 OR PORCELAIN TI/SPC/OHE/INS/0071

ALLUMINUM

AW 6082 EN - 573 - 3

ALLUMINUM

AL. ALLOY

ALLUMINUM

AISi7Mg0.6, UNE-EN1706/T6 AW 6082 EN - 573 - 3 AW 6082 EN - 573 - 3 AISi7Mg0.6, UNE-EN1706/T6

_ 2

AL. ALLOY

ANTIWIND STAY CLAMP

ANTIWIND STAY WIRE

9 œ

BRACKET TUBE (70 x 6 MM)

HOOK EYE

TUBE CAP (FOR 70 MM TUBE) TUBE CAP (FOR 55 MM TUBE)

			DATE	40		" THI: (MIN REF
			MOD.) 	S DRA
			NATURE OF MOD.	SINGLE CANTILEVER	MCA ASSEMBLY	WING IS THE P
			INITIALS		i MBI	ROPER S), LUCP DR WHO
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		DATE NAME		≥	ے	EARCH 11, INI OUT PR
SCALE :- NTS			R.	ADE/OHE	JDTI/OHE	H DESIGN
:- NTS	11/DRG/OHE/MCA/000X4/23/0		R.D.S.O.			"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
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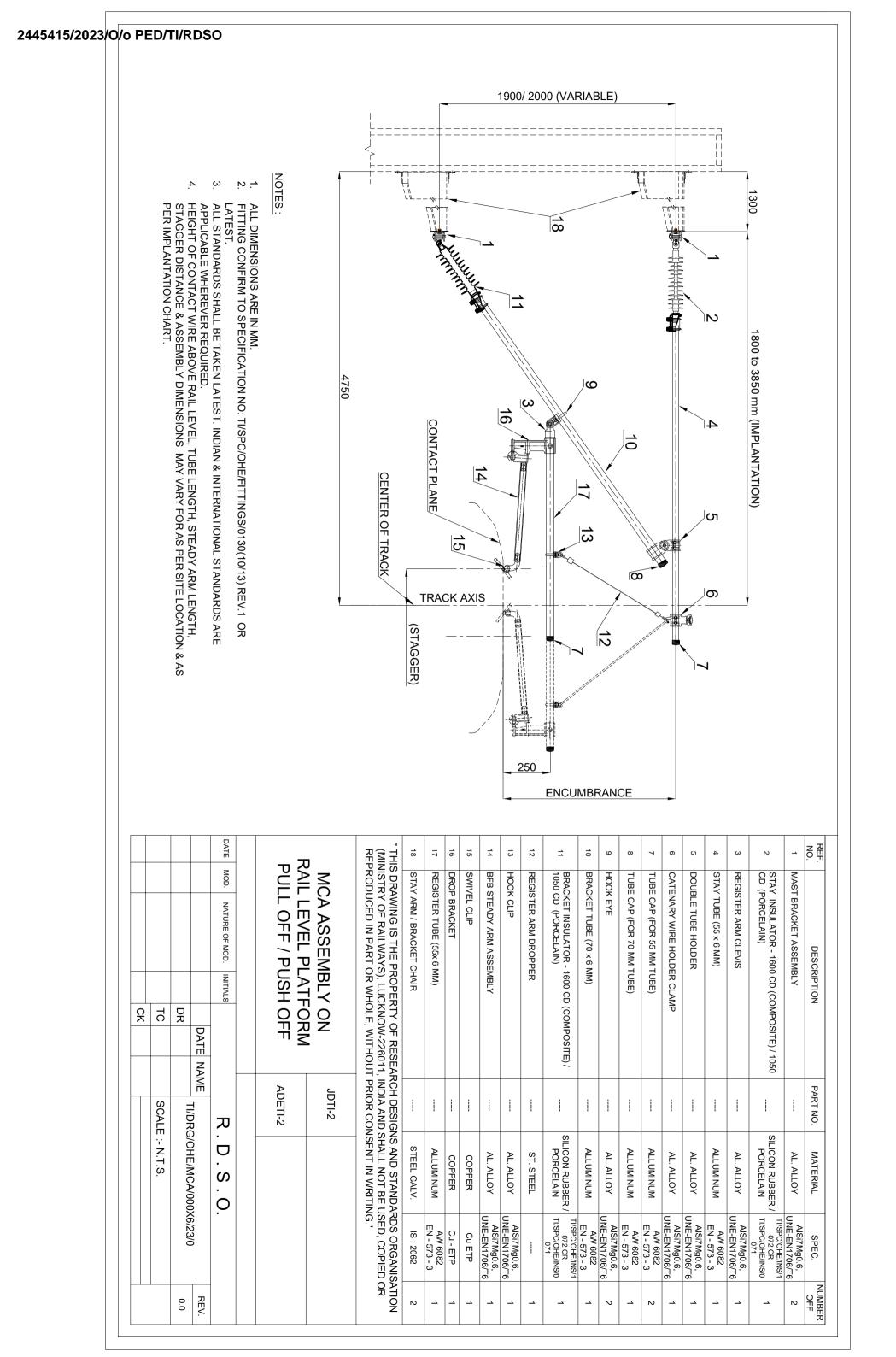
2445415/2023/O/o PED/TI/RDSO 1900/2000 (VARIABLE) 20 NOTES: 10 ALL STANDARDS SHALL BE TAKEN LATEST. INDIAN & INTERNATIONAL STANDARDS ARE ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR & AS PER IMPLANTATION CHART. STAGGER DISTANCE & ASSEMBLY DIMENSIONS MAY VARY FOR AS PER SITE LOCATION HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, APPLICABLE WHEREVER REQUIRED. LATEST. M 800 to 3850 mm (IMPLANTATION) ∞ 17 CONTACT PLANE 4 9 3 16 (STAGGER) 5 TRACK AXIS CENTER OF TRACK 19 18 300 **ENCUMBRANCE** DATE NO. THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING." 20 19 17 15 14 13 12 10 9 œ 6 5 ω MOD. MULTIPLE CANTILEVER CROSS ARM ASSEMBLY SWIVEL CLIP
REINFORCED THREADED CL
TUBE) ANTIWIND STAY CLAMP REGISTER TUBE (55x 6 MM) DROP BRACKET BRACKET INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN) HOOK EYE TUBE CAP (FOR 55 MM TUBE CATENARY WIRE HOLDER CL DOUBLE TUBE HOLDER STAY INSULATOR - 1600 CD 1050 CD (PORCELAIN) MAST BRACKET ASSEMBLY NORMAL BENT STEADY ARM REGISTER ARM DROPPER BRACKET TUBE (70 x 6 MM) TUBE CAP (FOR 70 MM TUBE) STAY TUBE (55 x 6 MM) ANTIWIND STAY WIRE HOOK CLIP PULL OFF / PUSH OFF MCA ASSEMBLY ON (MULTIPLE TRIPLE NATURE OF MOD. CANTILEVE **OVERLAP** DESCRIPTION INITIALS \(\text{\text{Z}} \) EVIS (FOR 55 MM AMP (COMPOSITE)/ ASSEMBLY DR TC 웃 DATE NAME ETI/OHE/P-3120 PART NO. ADETI-2 JDTI-2 SCALE :- N.T.S TI/DRG/OHE/MCA/000X5/23/0 Z SILICON RUBBER / PORCELAIN SILICON RUBBER / PORCELAIN STEEL GALV. ALLUMINUM ALLUMINUM ALLUMINUM ALLUMINUM ALLUMINUM MATERIAL ST. STEEL \Box AL. ALLOY ST. STEEL AL. ALLOY COPPER S 0 AW 6082 EN - 573 - 3 / TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071 AIS:77MgO.6,
UNE-EN1706/T6
/ TI/SPC/OHE/INS/1072
OR
TI/SPC/OHE/INS/1071
AW 6082
EN - 573 - 3
AIS:77MgO.6,
UNE-EN1706/T6
AIS:77MgO.6,
UNE-EN1706/T6
AW 6082
EN - 573 - 3
AISI7Mg0.6, UNE-EN1706/T6 AISI7Mg0.6, UNE-EN1706/T6 AISI7Mg0.6, UNE-EN1706/T6 AW 6082 EN - 573 - 3 Cu ETP AISI7Mg0.6, UNE-EN1706/T6 AISi7Mg0.6, UNE-EN1706/T6 IS: 2062 SPEC.

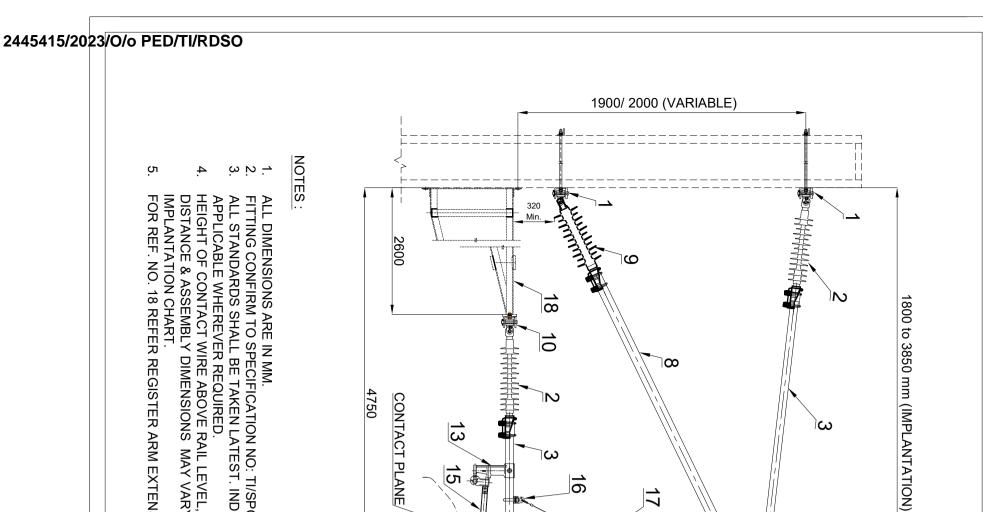
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TRACK AXIS

ENCUMBRANCE

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CENTER OF TRACK

CONTACT PLANE

14

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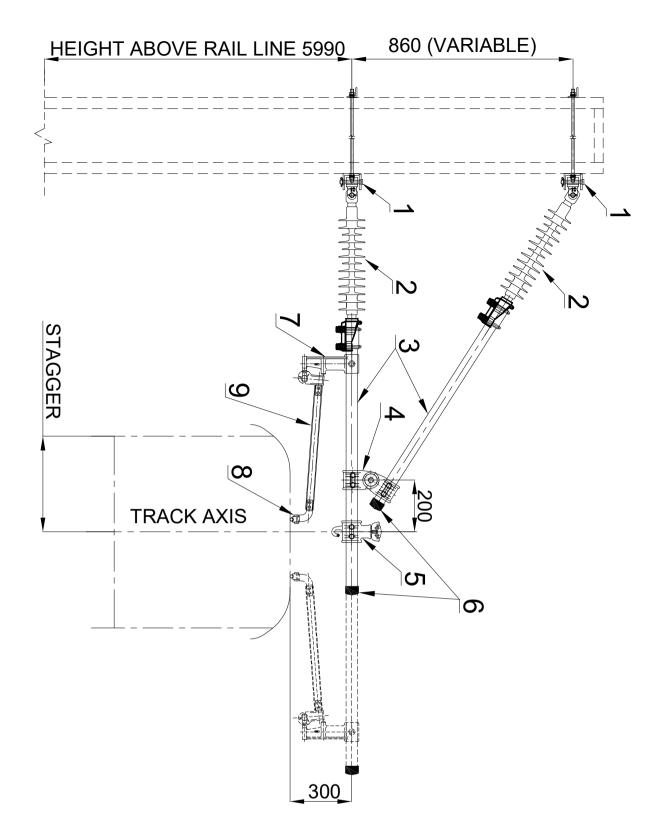
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- ALL DIMENSIONS ARE IN MM.
 FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST.
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 IMPLANTATION CHART.
- FOR REF. NO. 18 REFER REGISTER ARM EXTENSION FRAME DRAWING NO. ETI/OHE/ P/3110.

" THIS (MIN) REPI	18	17	16	15	14	13	12	1	10	9	8	7	6	5	4	ω	2	1	NO RE
THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	REGISTER ARM EXTENSION FRAME	REGISTER ARM DROPPER	HOOK CLIP	BFB STEADY ARM ASSEMBLY	SWIVEL CLIP	DROP BRACKET	ANTIWIND STAY WIRE	ANTIWIND STAY CLAMP	BRACKET ASSEMBLY WITH CLEVIS	BRACKET INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)	BRACKET TUBE (70×6 MM)	TUBE CAP (FOR 70 MM TUBE)	TUBE CAP (FOR 55 MM TUBE)	CATENARY WIRE HOLDER CLAMP	DOUBLE TUBE HOLDER	STAY TUBE (55 x 6 MM)	STAY INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)	MAST BRACKET ASSEMBLY	DESCRIPTION
CH DESIGN NDIA AND S PRIOR CON	ETI/OHE/P/3110		-	-			l	-									-		PART NO.
IS AND STANDAR SHALL NOT BE US SENT IN WRITING	STEEL GALV.	ST. STEEL	AL. ALLOY	AL. ALLOY	COPPER	AL. ALLOY	ST. STEEL	AL. ALLOY	AL. ALLOY	SILICON RUBBER/ PORCELAIN	ALLUMINUM	ALLUMINUM	ALLUMINUM	AL. ALLOY	AL. ALLOY	ALLUMINUM	SILICON RUBBER/ PORCELAIN	AL. ALLOY	MATERIAL
SED, COPIED C	IS: 2062		AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	Cu ETP	AISi7Mg0.6, UNE-EN1706/T6	l	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	TI/SPC/OHE/INS/1 072 OR TI/SPC/OHE/INS/0 071	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	AW 6082 EN - 573 - 3	TI/SPC/OHE/INS/1 072 OR TI/SPC/OHE/INS/0 071	AISi7Mg0.6, UNE-EN1706/T6	
ATION DR	_	1	<u> </u>	1	_	_	-	1	1	<u> </u>	1	_	2	→	_	2	2	2	NUMBE R OFF

					DATE			-
					MOD.	(PUI	H M	
					NATURE OF MOD.	LEVEL PLATFORM (PULL OFF / PUSH OFF)	MCA ASSEMBLY ON HIGH LEVEL OR LOW	
					INITIALS	TFOF USH	SP.	
CX) c	7	모	DΑ		유	Q Q Q)
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				DATE NAME		P.	JL	777
	SCALE :- N. I.S.	SCALE:	TI/DR	ļ j	R	ADETI-2	JDTI-2	
	i.i.	N T O	TI/DRG/OHE/MCA/000X7/23/0		R.D.S.O.			ALTEROGRAPHICAL ON WHOCK, WHILLOOF PRIOR CONSERVE IN WINITING.
			0.0	REV.				



				DATE MOD. NATURE OF MOD.	TRAMW	MCA AS	REPRODUCED IN PA
ÇK.	ТС	DR		MOD. INITIALS	TRAMWAY TYPE	MCA ASSEMBLY	ART OR WHOLE
		70	DATE NAME				; WITHOU:
	SCAL			٦	ADETI-2	JDTI-2	T PRIOR CO
	SCALE :- N.T.S.			R. D. S. O.			(MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
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Б.	DESCRIPTION	PART NO.	MATERIAL	SPEC.	ER OFF
	MAST BRACKET ASSEMBLY	-	AL. ALLOY	AISi7Mg0.6, UNE-EN1706/T6	2
2	STAY INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)		SILICON RUBBER / PORCELAIN	TI/SPC/OHE/INS/1072 OR TI/SPC/OHE/INS/0071	2
ω	STAY TUBE (55 x 6 MM)		ALLUMINUM	AW 6082 EN - 573 - 3	2
4	DOUBLE TUBE HOLDER	-	AL. ALLOY	AISi7Mg0.6, UNE-EN1706/T6	_
5	CATENARY WIRE HOLDER CLAMP		AL. ALLOY	AISi7Mg0.6, UNE-EN1706/T6	_
6	TUBE CAP (FOR 55 MM TUBE)	-	ALLUMINUM	AW 6082 EN - 573 - 3	2
7	DROP BRACKET		AL. ALLOY	AISi7Mg0.6, UNE-EN1706/T6	_
00	SWIVELCLIP		COPPER	Cu ETP	_
9	BFB STEADY ARM ASSEMBLY		AL. ALLOY	AISi7Mg0.6, UNE-EN1706/T6	_
NO	NOTES:				
4 32.1	ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. ALL STANDARDS SHALL BE TAKEN LATEST. INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, TUBE LENGTH, STEADY ARM LENGTH,	NO: TI/SPC/O EST. INDIAN	HE/FITTINGS/0130 I & INTERNATIONAI	(10/13) REV.1 OR LATE: L STANDARDS ARE DY ARM LENGTH,	ST.
4.	HEIGHT OF CONTACT WIRE ABOVE RAIL LEVEL, TUBE LENGTH, STEADY ARM LENGTH, STAGGER DISTANCE & ASSEMBLY DIMENSIONS MAY VARY FOR AS PER SITE LOCATION & AS PER IMPLANTATION CHART.	L LEVEL, TU ENSIONS M	BE LENGTH, STEA AY VARY FOR AS F	DY ARM LENGTH, PER SITE LOCATION & A	(0
로	THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION	SEARCH DE	ESIGNS AND STA	NDARDS ORGANISAT	Ō
≧ ∃	(MINISTRY OF RAILWAYS), LUCKNOW-226011. INDIA AND SHALL NOT BE USED. COPIED OR	011. INDIA	AND SHALL NOT	RF USED, COPIED OF	- (

NO.

DESCRIPTION

PART NO.

MATERIAL

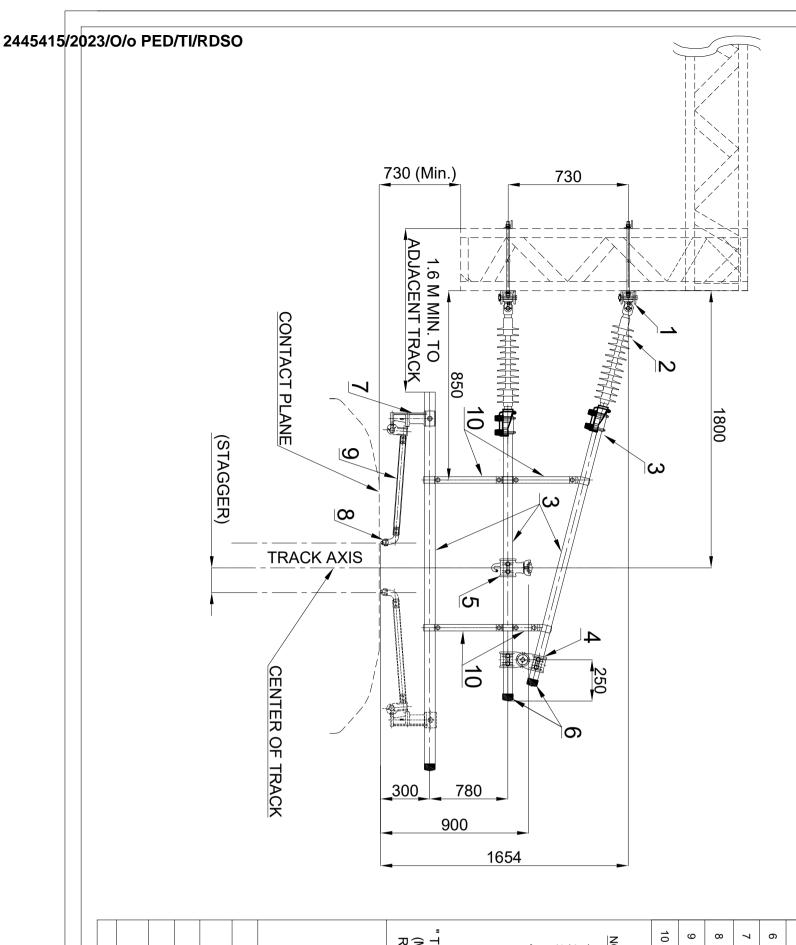
SPEC.

NUMB ER OFF

AL. ALLOY

AISi7Mg0.6, UNE-EN1706/T6

N



NOTES

DROP CLIP ASSEMBLY

STEEL

AL. ALLOY

AISI7Mg0.6, UNE-EN1706/T6 TI/SPC/OHE/FITTING

4

BFB STEADY ARM ASSEMBLY

DROP BRACKET

SWIVEL CLIP

COPPER

Cu ETP

CATENARY WIRE HOLDER CLAMP

TUBE CAP (FOR 55 MM TUBE)

ALLUMINUM

AL. ALLOY

AISi7Mg0.6, UNE-EN1706/T6

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N

AISi7Mg0.6, UNE-EN1706/T6

AL. ALLOY

AW 6082 EN - 573 - 3 AISi7Mg0.6, UNE-EN1706/T6

DOUBLE TUBE HOLDER

STAY TUBE (55 x 6 MM)

STAY INSULATOR - 1600 CD (COMPOSITE) / 1050 CD (PORCELAIN)

SILICON RUBBER / OR
PORCELAIN TI/SPC/OHE/INS/0071

2

ALLUMINUM

AW 6082 EN - 573 - 3

ω

MAST BRACKET ASSEMBLY

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					NATURE OF MOD. INITIALS	ARRANGEMENTS	MCA ASSEMBLY	RETROCOCED IN TAX I OR WI
S	2	TC	DR	DATE NAME		TS	i '≺	OLE, WITHOU
		SCALE :- N.T.S.	II/DRG/OHE/MCA/000X9/23/0		R.D.S.O.	ADETI-2	JDTI-2	RETRODUCED IN TARE OR WHOLE, WE HOUT TRIOR CONSENT IN WRITING."
			0.0	REV.				

	DATE	NATURE OF MOD. INITIALS		ARRANGEMENTS	MCA ASSEMBLY	"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
	DATE NAME				SEARCH 011, IND 10UT PR	
TI/DRC	 []	R		ADETI-2	JDTI-2	DESIGN DIA AND S
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)	REV.					ATION OR

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DESCRIPTION

PART No.

MATERIAL

SPEC.

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AISi7Mg0.6, UNE-EN1706/T6

SWIVEL WITH CLEVIS

STANDARD BACKING ANGLE

STEEL GALV STEEL GALV STEEL GALV STEEL GALV AL. ALLOY

GR. : 2062,

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ST. STEEL ST. STEEL

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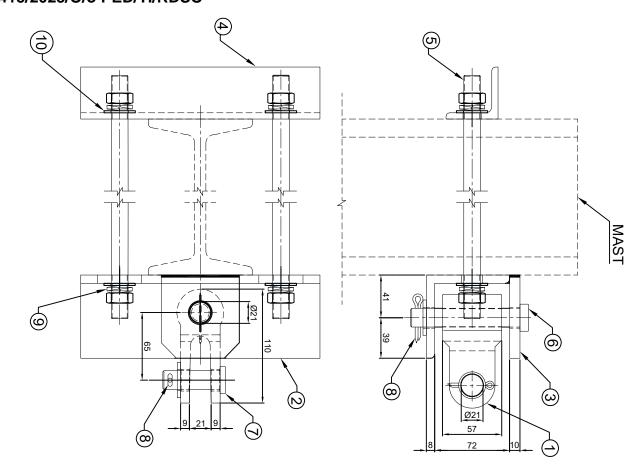
AISI 304

AISI 304 AISI 304

ST. STEEL

AISI 304 AISI 304 FRONT ANGLE STRAP 10 X 75 X 78 MM FRONT ANGLE FOR MAST ATTACHMENT

2445415/2023/O/o PED/TI/RDSO



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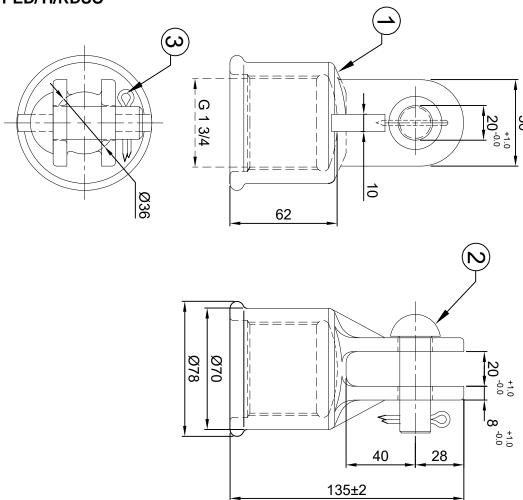
M16 PLAIN WASHER M16 SPRING WASHER SPLIT PIN Ø4 MM SNAP HEAD PIN Ø18 X 105 MM WITH M18 PLAIN WASHER SNAP HEAD PIN $\varnothing 18 \times 55$ MM WITH M18 PLAIN WASHER STUD BOLT Ø16 X 378 / 85 MM WITH M16 NUT

ALL DIMENSIONS ARE IN MM.
FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST.
FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST.
FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST.
ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE
APPLICABLE WHEREVER REQUIRED.
MARKKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF

ALL DIMENSIONS OF FABRICATED PARTS ARE APPLICABLE AFTER GALVANIZING MANUFACTURE TO BE PROVIDED.

THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."

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2 ×	ТС	DR	DATE NAME			'
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				INITIALS		<u> </u>	ROPEF), LUC)R WH	ITO S ITO S IFIRM T. SHAL S: MA V.CTUI		8 x 55	ADEC	ž
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		TI/DRG/OHE/MCA/ 000X11/23/0		. 0.			"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	S.: ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. MARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED. THREAD PROFILE SHOULD BE ISO METRIC.	AISI 304	AW - 6082	AISi7Mg0.6 UNE-EN 1706/T6	SPEC.
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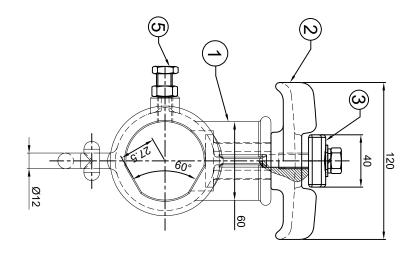
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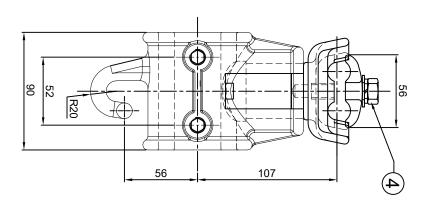
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2445415/2023/O/o PED/TI/RDSO 2 x Ø22 R34 40 8 90 4 ₽ 24 85 76 M12 Tapping <u>ල</u> 15 55 09 /cj 60∘ 0,100 49 (J M12 Tapping 4 \bigcirc DATE REF "THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING." **DOUBLE TUBE HOLDER** 1. ALL DIMENSIONS ARE IN MM. 2. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. 3. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. 4. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. 5. MARKING DETAILS: "ANDUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED. MOD. HEX BOLT & NUT M12 X 35 SPLIT PIN Ø4 M20 SPRING WASHER BOLT & NUT M20 X 70 HALF TUBE ROTATIONAL JOINT FOR 70 MM TUBE HALF TUBE ROTATIONAL JOINT FOR 55 MM TUBE M20 PLAIN WASHER NATURE OF MOD. DESCRIPTION INITIALS 웃 모 $\frac{1}{2}$ DATE NAME PART No. ADETI-2 JDTI-2 SCALE :- N.T.S. TI/DRG/OHE/MCA/000X12/23/0 ᄁ MATERIAL ST. STEEL ST. STEEL ST. STEEL AL. ALLOY ST. STEEL ST. STEEL . ALLOY O S. 0 AISi7Mg0.6, UNE-EN1706/T6 AISi7Mg0.6, UNE-EN1706/T6 AISI 304 AISI 304 AISI 304 AISI 304 AISI 304 SPEC.

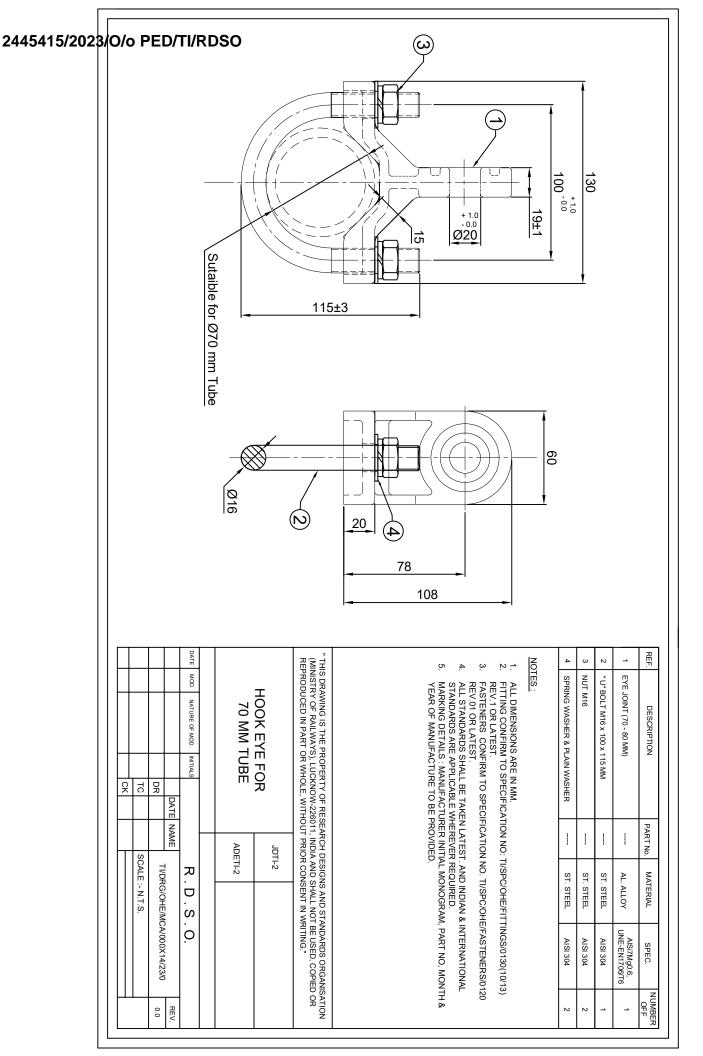
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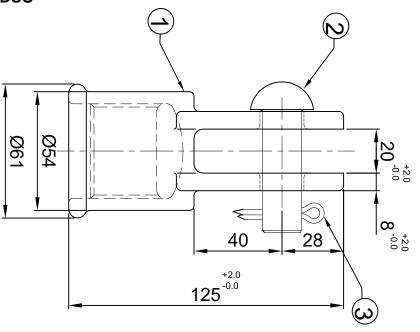
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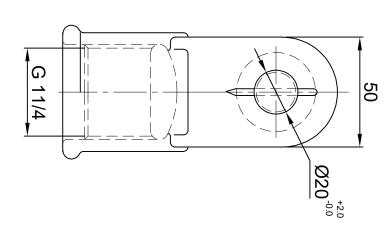




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				OF MOD.	HOLDER CLAMP	CATENARY WIRE	S THE PI	FASTENERS CONFIRM TO SPECIFIC FASTENERS CONFIRM TO SPECIFIC ATTESTANDARDS SHALL BE TAKEN I APPLICABLE WHEREVER REQUIRED MARKING DETAILS : MANUFACTURE MANUFACTURE TO BE PROVIDED.	S: FITTING CONFIRM TO SPECIF ATEST	BOLT V-ENDED 12 X 35P WITH NUT	BOLT M12 X 40 WITH NUT AND PW & SW	CATENARY WIRE SUPPORT COVER	CATENARY WIRE SUPPORT	CATENARY WIRE SUPPORT BODY (55 MM TUBE)	DESCRIPTION
				INITIALS	ĽĄ.	≦	ROPER S), LUC DR WH	E PROV	E IN MN SPECI	5P WITI	NA TUV	PORTO	PORT	PORT E	
S	ТС	PR	D		P	R E	KNOW OLE, W	SPECIFI TAKEN COUIRE ACTUR /IDED.	I. IFICATI	L NOT	DPW&	OVER		30DY F	
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			NAME		AD	Ь	EARCH I 11, INDI	ITIAL MO	D: TI/SPC			1	1	1	PART No.
	SCALE		1	R	ADETI-2	JDTI-2	A AND OR CON	I/SPC/O INDIAN NOGRA	OHE/FI	ST.	SI	AL	A	ĄL	
	:- N.T.S.	KG/OHE/N		. D . S			THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARD (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USE REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING.	HE/FASTEN & INTERNA M. PART NO	TTINGS/013	STEEL	ST. STEEL	AL. ALLOY	AL. ALLOY	AL. ALLOY	MATERIAL
		II/DRG/OHE/MCA/000X13/23/0	000000000000000000000000000000000000000	. 0.			THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	FASTEMERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR FASTEMERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. ATLSTANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. MARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MARKING DETAILS: MANUFACTURE TO BE PROVIDED.	S: ALL DIMENSIONS ARE IN MM. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST	AISI 304	AISI 304	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	AISi7Mg0.6, UNE-EN1706/T6	SPEC.
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			MOD.		ז	> 크	IS DRA NISTR PRODI
			NATURE OF MOD.		42 MM TUBE	THREADED CLEVIS	AWING IS THE P Y OF RAILWAY! UCED IN PART (
			INITIALS		Jagn.	CLE	ROPEI S), LUC OR WH
TC	DR	DATE NAME	,		''' 5	SIVE	RTY OF RES KNOW-2260 IOLE, WITHC
		NAME			AL	<u>_</u>	EARC 11, IN UT PF
SCALE :- 1:1			R		ADE/OHE	JDTI/OHE	H DESIGN DIA AND : RIOR CON
:- 1:1	TI/DRG/OHE/MCA/000A 13/23/0		R.D.S.O.				THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
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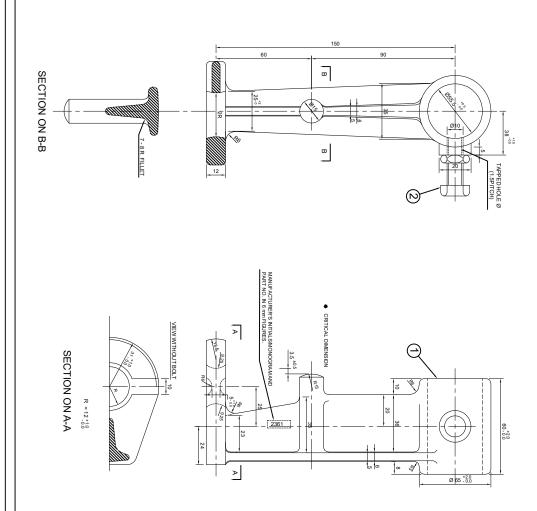
- 1. ALL DIMENSIONS ARE IN MM.
 2. TOLERANCES ARE 40.5MM FOR DIMENSIONS LESS THAN 35MM AND 1.5% FOR DIMENSIONS MORE THAN 35MM.

 MORE THAN 35MM.
 3. FITTING CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST.
 4. FASTENIERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST.
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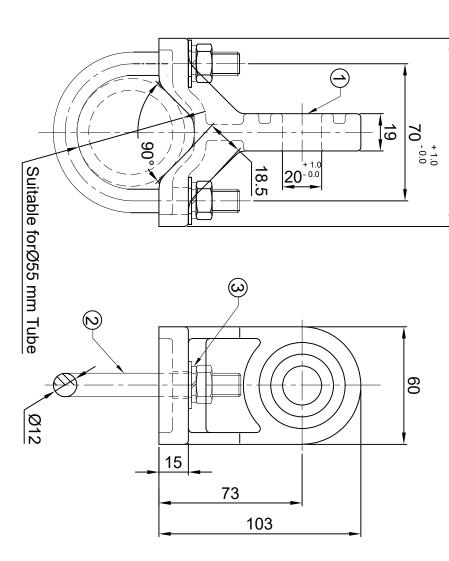
 1. SAFE WORKING LOAD (KN): -16.5

 2. BREAKING LOAD (KN): -50

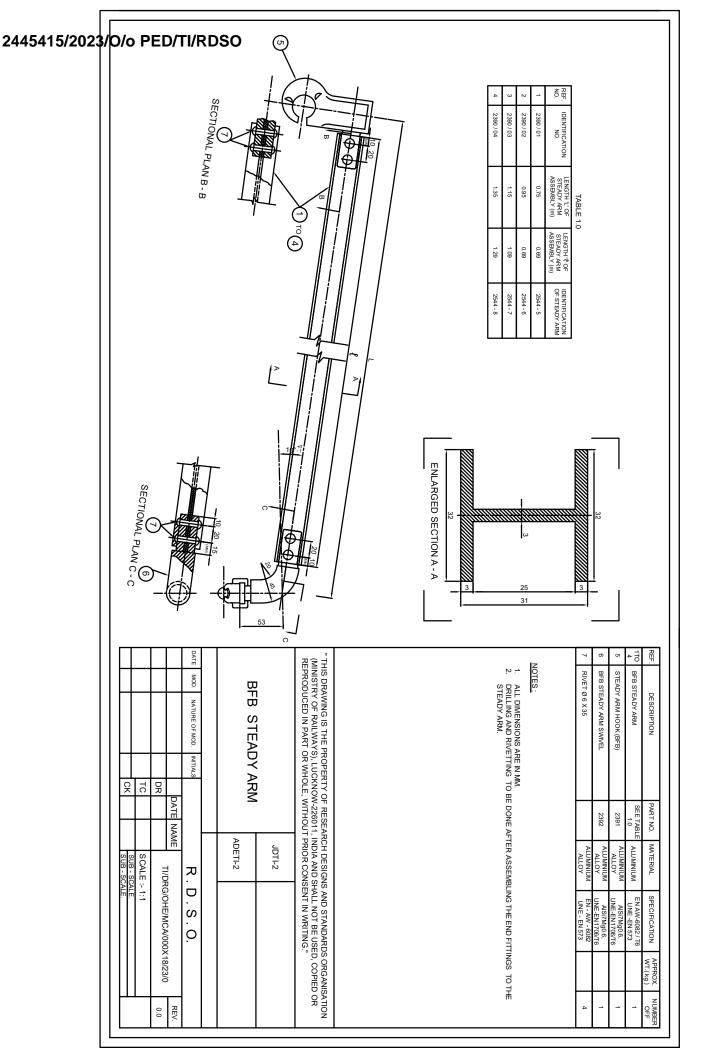
3	2		Ή.
SPLIT PIN Ø4 x 36 MM	SNAP HEAD PIN Ø18 x 55 MM	EYE JOINT (70 - 80 MM)	DESCRIPTION
			PART No.
ST. STEEL	AL. ALLOY	AL. ALLOY	MATERIAL
AISI 304	AW 6062	AISi7Mg0.6, UNE-EN1706/T6	SPEC.
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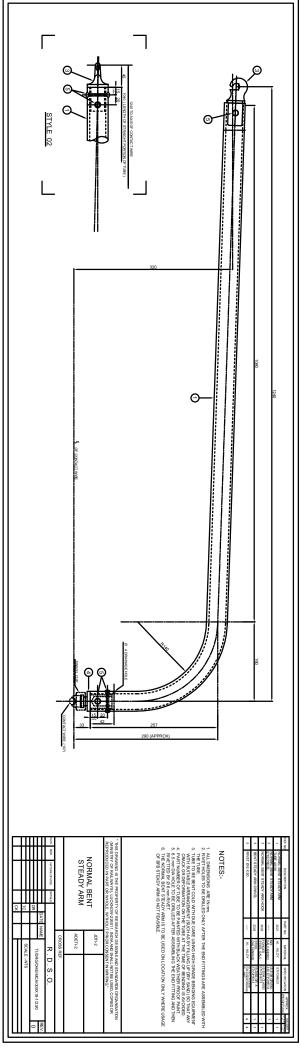


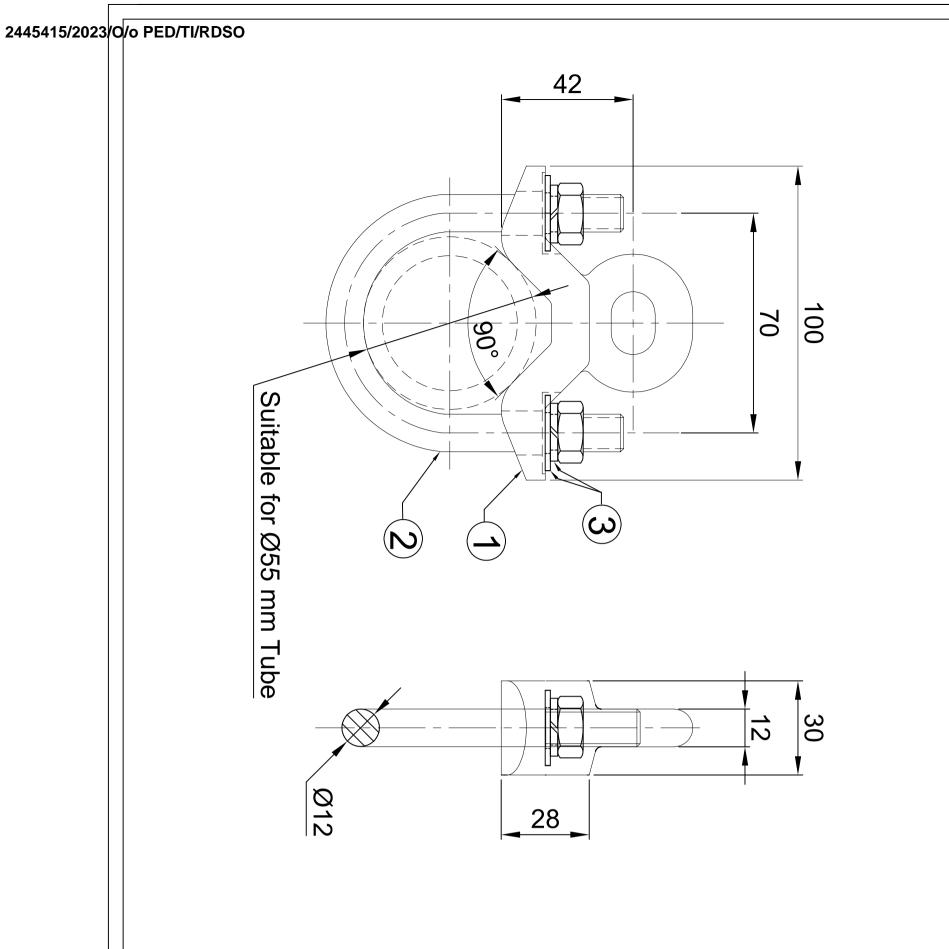
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				MOD. NATURE OF MOD. INITIALS		DROP BRACKET	THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	NOTES: 1. ALL DIMENSIONS ARE IN MM. 2. MANUFACTURER'S INITIALS / MONOGRAM AND PART NUMBER TO BE PROVIDED IN RELIEF. 3. DIMENSIONAL LIMITS APPLICABLE AFTER GALVANISATION. 4. THE SUPPACE OF THE MALLEABLE IPON CASTING WHEN EXPOSED BY ROUGH MACHINING OR SECTIONING IN TERMS OF CLAUSE 8.2 OF IS: 2108 SHALL PRESENT AN UNIFORM SILKY BLOCK APPEARANCE WITHOUT WHITE OF SHINY SPOTS (EXCEPT AT THEEDGES OF THE SURFACE.)	BOLT Ø 10 x 25 / 20 WITH LOCKNUT	ADJUSTABLE SUPPORT FOR REGISTRATION (TUBE 55 MM)	DESCRIPTION
웃	TC	PR	DATE			Д	TY OF RE (NOW-226)LE, WITH	JONOGRAI BLE AFTER BABLE IRON JUSE 8.2 ON E OF SHIN	KNUT		
			NAME			1	SEAR(8011, II	W AND I CASTILL FIS: 2: Y SPOTT			PART No.
\mathbf{h}			Е		ADETI-2	JDTI-2	NDIA /	PART N WISATI WG WHH 108 SH S (EXC	'		N _o
		I I/DRG/OHE/N		R.D.S	-2	N	SIGNS AND STA ND SHALL NOT CONSENT IN WI	UMBER TO BE PROON. ON. EXPOSED BY RALL PRESENT AN UEPT AT THEEDGES	ST. STEEL	AL. ALLOY	MATERIAL
		TI/DRG/OHE/MCA/000X16/23/0		0.			NDARDS ORGANISATI BE USED, COPIED OR RITING."	OUGH MACHINING C NIFORM SILKY BLOO OF THE SURFACE;	AISI 304	AISi7Mg0.6, UNE-EN1706/T6	SPEC.
		0.0	REV.				D OR	- OR	_	_	NUMBER OFF



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ST. STEEL LL DIMENSIONS ARE IN MM. ATTINIG CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ASTENLERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ANTINE OF TAKEN AND INDIAN & INTERP PULCABLE WHEREVER REQUIRED. ARRINGO DETAILS: MANUFACTURE TO BE PROVIDED. RAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STALL IN DDUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN DDUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN DDUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN ADETI-2 SEMBLY EYE JOINT ADETI-2 R. D. S.
22 SPRING & PLAIN WASHER ST. STEEL LL DIMENSIONS ARE IN MM. TITING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ASTENERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ANUFACTURE TO BE PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN DUCCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN DUCCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN ADDITION OF TIME PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN DUCCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN ADDITION OF TIME PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN ADDITION OF TIME PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN ADDITION OF TIME PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN ADDITION OF TIME PROPIETY OF RESEARCH DESIGNS AND S TRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN
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22 SPRING & PLAIN WASHER ST. STEEL LI. DIMENSIONS ARE IN MM. ATIEST. ASTEWERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ASTEWERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/O ASTEWERS SHALL BE TAKEN LATEST. AND INDIAN & INTERPOLORABLE WHEREVER REQUIRED POLOCABLE WHEREVER REQUIRED. ARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART ANUFACTURE TO BE PROVIDED. RRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL IN DOUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN DOUCED IN P
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22 SPRING & PLAIN WASHER ST. STEEL LL DIMENSIONS ARE IN MM. ATEST. ASTENERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0 ASTENERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0 ASTENERS CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FASTE ATEST. AND ARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERPOPLICABLE WHEREVER REQUIRED. ARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PARTICABLE TO BE PROVIDED.
U "BOLT WITH NUT M12 x 70 x 95 MM ST. STEEL
ADJUSTABLE SUPPORT FOR AL. ALLOY
DESCRIPTION PART No. MATERIAL







З	2	1	REF.	
M12 SPRING & PLAIN WASHER	" U" BOLT WITH NUT M12 x 70 x 95 MM	ANTI WIND STAY CLAMP (FOR TUBE 42-55 MM)	DESCRIPTION	
	-		PART No.	
ST. STEEL	ST. STEEL	AL. ALLOY	MATERIAL	
AISI - 304	AISI - 304	AISi7Mg0.6, UNE-EN1706/T6	SPEC.	
2	1	٦	NUMBER OFF	

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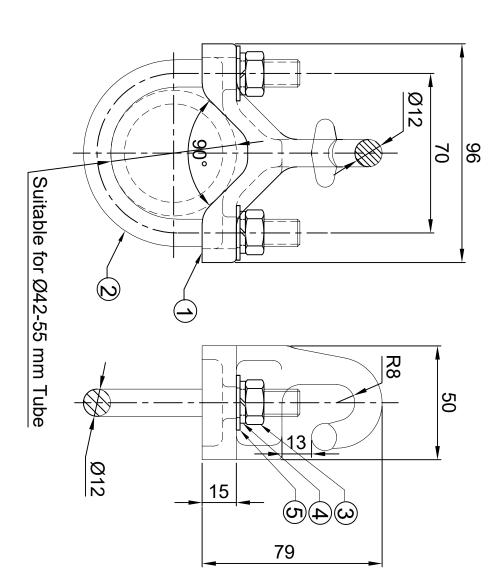
- ALL DIMENSIONS ARE IN MM.
 FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR
 LATEST.
 FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR
 LATEST.
 ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE
 APPLICABLE WHEREVER REQUIRED.
 MARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF
 MANUFACTURE TO BE PROVIDED.

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SCALE :- N.T.S.	II/DRG/OHE/MCA/000X19/23/0		R.D.S.O.			"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
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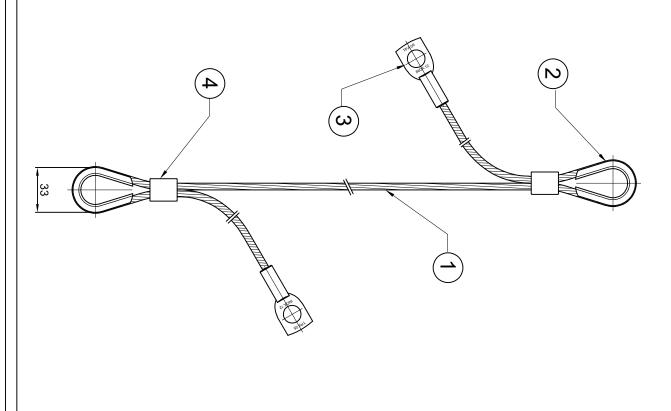
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REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR
THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION

Ø82 2445415/2023/O/o PED/TI/RDSO 20 40 24 +1.0 -0.0 62 ယ 78 60° DATE 굒 ASSEMBLY SUPPORT FOR THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING." 3. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. 4. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. 5. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. 6. MARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED. **REGISTRATION TUBE** MOD. SPLIT PIN Ø4 x 40 MM BOLT M12 x 35 WITH CHECK NUT SUPPORT FOR REGISTRATION TUBE ALL DIMENSIONS ARE IN MM. TOLERANCES ARE ± 0.5 MM FOR DIMENSIONS LESS THAN 35MM AND 1.5% FOR DIMENSIONS MORE THAN 35MM. SNAP HEAD PIN Ø16 x 100 mm NATURE OF MOD. DESCRIPTION INITIALS 용 궁 DR DATE NAME PART No. ADE/OHE JDTI/OHE SCALE :- NTS TI/DRG/OHE/MCA/000X20/23/0 Ŋ ST. STEEL MATERIAL AL. ALLOY ST. STEEL .. ALLOY D ഗ AISi7Mg0.6, UNE-EN1706/T6 0 EN - AW 6082 SPEC. AISI 304 AISI 304 NUMBER OFF REV. 0.0



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				DATE		-	요절 표	6. 5. 4. 3. 2.1. NO	5	4	ω	2	_	REF.
CK	TC	DR	DATE	MOD. NATURE OF MOD. INITIALS		HOOK CLIP ASSEMBLY	THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."	NOTES: 1. ALL DIMENSIONS ARE IN MM. 2. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. 3. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. 4. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. 5. MARRING DETAIL S: MANULFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED. 6. TECHNICAL DETAILS OF REF. NO 1	M12 PLAIN WASHER	M12 SPRING WASHER	M12 NUT	"U" BOLT M12 x 70 x 95 MM	HOOK CLIP FOR (42 - 55 MM TUBE)	DESCRIPTION
_			E NAME		ADETI-2	JDTI-2	ESEARCH D 26011, INDIA HOUT PRIO	ATION NO. TI ATION NO. TI ATEST. AND R INITIAL MO	1			1		PART No.
		I I/DRG/OHE/MCA/000Xz I/z3/0		R.D.S	П-2	F2	ESIGNS AND STA AND SHALL NOT R CONSENT IN W	OHE/FITTINGS/013 /SPC/OHE/FASTEN INDIAN & INTERW NOGRAM, PART N	ST. STEEL	ST. STEEL	ST. STEEL	ST. STEEL	AL. ALLOY	MATERIAL
		JA1000X2112310	0/56/1/54000/0/	. 0.			ANDARDS ORGAN BE USED, COPIEI RITING."	30(10/13) REV.1 OR IERS/0120 REV.01 C .TIONAL STANDARD .D., MONTH & YEAR (AISI 304	AISI 304	AISI 304	AISI 304	AISi7Mg0.6, UNE-EN1706/T6	SPEC.
		0.0	REV.				ISATION D OR	OF SARE	20	2	2	_	_	NUMBER OFF



- ALL DIMENSIONS ARE IN MM.
 FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR
 LATEST.
 FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR
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 MARKING DETAILS: MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF
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	SCALE			٦	ADETI-2	JDTI-2	H DESIGN DIA AND :
	SCALE :- N.T.S.	II/DRG/OHE/MCA/000X22/23/0		R.D.S.O.			" THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-228011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
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4	ω	2	_	REF.	
COMPRESSION SLEEVE	TERMINAL LUG	THIMBLE	CABLE WIRE Ø5 MM	DESCRIPTION	
				PART No.	
ST. STEEL	ST. STEEL	ST. STEEL	ST. STEEL	MATERIAL	
AISI 304	AISI 304	AISI 304	UNE - EN 10088	SPEC.	
2	2	2	1	NUMBER OFF	

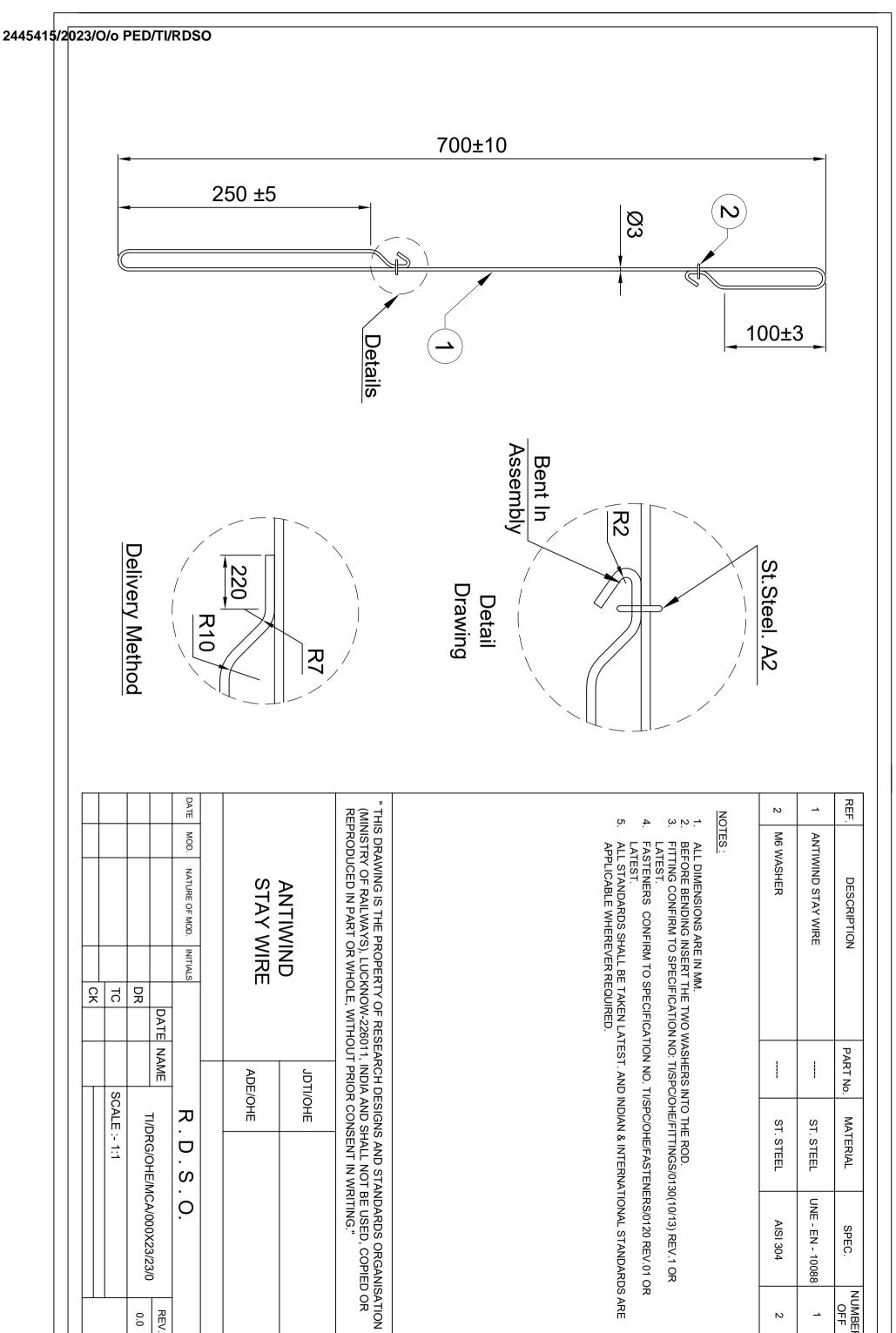
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DESCRIPTION

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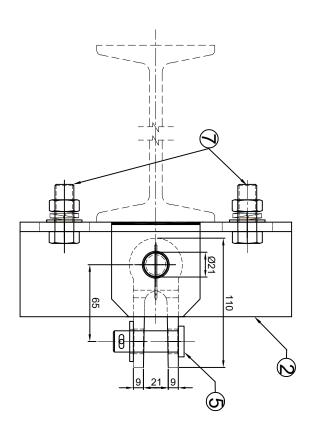
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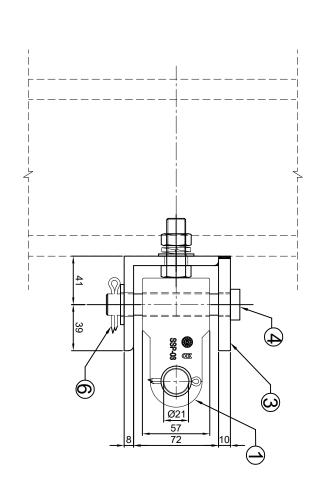
IS:2062, GR - A AISI7MG0.6 UNE-EN1706/T6

IS:2062, GR - A AISI 304

SWIVEL WITH CLEVIS

2445415/2023/O/o PED/TI/RDSO





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SPLIT PIN Ø4 MM

M16 BOLT WITH NUT AND PW & SW

ST. STEEL ST. STEEL ST. STEEL ST. STEEL STEEL GALV STEEL GALV AI. ALLOY MATERIAL

AISI 304 AISI 304 AISI 304

2

SNAP HEAD PIN Ø18 X 105 MM WITH PW FRONT ANGLE STRAP 10 X 75 X 78 MM FRONT ANGLE FOR MAST ATTACHMENT

SNAP HEAD PIN Ø18 X 55 MM WITH PW

- !> . DIMENSIONS MORE THAN 35MM. ALL DIMENSIONS ARE IN MM. TOLERANCES ARE ± 0.5 MM FOR DIMENSIONS LESS THAN 35MM AND 1.5% FOR
- FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST

FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01

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STANDARDS ARE APPLICABLE WHEREVER REQUIRED.

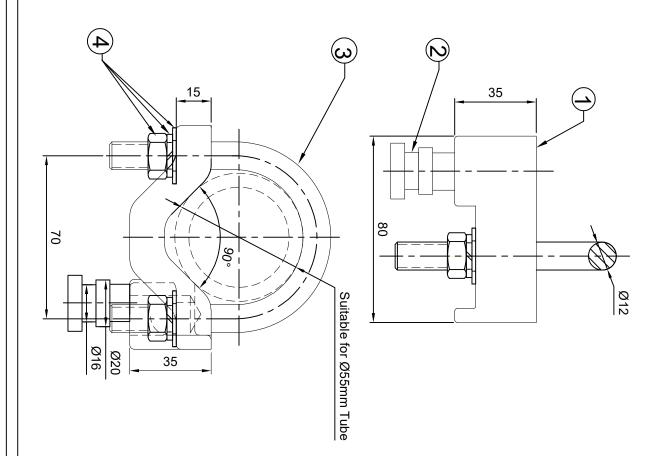
MARKING DETAILS : MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED.

DR	DATE	DATE MOD. NATURE OF MOD. INITIALS	WITH CLEVIS ASSEMBLY	BRACKET & SWIVEL	" THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."
	DATE NAME			P	SEARCH 011, INC OUT PR
	1	R	ADE/OHE	JDTI/OHE	DESIGN DIA AND : IOR CON
II/DRG/OHE/MCA/000X24/23/0		R.D.S.O.			NS AND STANDARDS ORGANIS/ SHALL NOT BE USED, COPIED (SENT IN WRITING."
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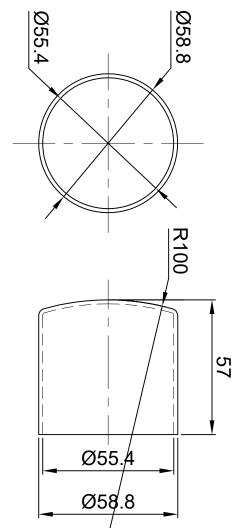
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2445415/20	23/O/o PED/TI	/RDSO ∞		2. 0			:	1 0	
	023/O/o PED/TI			Ø55 MM TUBE				070 MM TUBE	
	Ø34	Ø42	Ø43	Ø55	Ø58		Ø70		
	DATE MOD. NATURE OF MOD. INITIALS DATE DR TC CK	MCA TUBES	"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."		NOTES: 1. ALL DIMENSIONS ARE IN MM. 2. TOLERANCES ARE AS PER TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 3. FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. 4. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. 5. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. 6. LENGTH OF THE TUBE MAY VERY AS PER ACTUAL TYPE OF CANTILEVER AND SITE LOCATION/IMPLANTATION.	3 Ø42 MM TUBE	2 Ø55 MM TUBE	1 Ø70 MM TUBE	REF. DESCRIPTION
	NAME	JDTI/OHE ADE/OHE	SEARCH DE 011, INDIA / OUT PRIOR		FITTINGS/01 VO: TI/SPC/O ION NO. TI/S EST. AND IN				PART NO.
	R.D.S.O. TI/DRG/OHE/MCA/0000X25/23/0 SCALE:-NTS	# # # 	SIGNS AND STAI ND SHALL NOT E CONSENT IN WR		30(10/13) REV.1 HE/FITTINGS/0130 PC/OHE/FASTENE DIAN & INTERNATI	Al. Alloy	Al. Alloy	Al. Alloy	MATERIAL
	O.		NDARDS ORGANI BE USED, COPIEC LITING."		(10/13) REV.1 OR :RS/0120 REV.01 OI IONAL STANDARD: VER AND SITE	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	AW 6082 EN - 573 - 3	SPEC.
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"THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAIL WAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING."

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MARKING DETAILS : MANUFACTURER INITIAL MONOGRAM, PART NO, MONTH & YEAR OF MANUFACTURE TO BE PROVIDED.	ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED	FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST	FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST	ALL DIMENSIONS ARE IN MM. TOLERANCES ARE ±0.5MM FOR DIMENSIONS LESS THAN 35MM AND 1.5% FOR DIMENSIONS MORE THAN 35MM	NOTES:	M12 NUT, PLAIN & SPRING WASHER	"U" BOLT M12 x 70 x 95 MM	PH - AD INSERT	CONTACT WIRE CLIP SUPPORT	DESCRIPTION	
INITIAL MOI	TEST. AND	TION NO. TI	NO: TI/SPC/	NSIONS LES			1	-	-	PART No.	
NOGRAM, PART NO	INDIAN & INTERNA	/SPC/OHE/FASTEN	OHE/FITTINGS/013	S THAN 35MM AND		ST. STEEL	ST. STEEL	ST. STEEL	AL. ALLOY	MATERIAL	
), MONTH & YEAR (TIONAL STANDARE	ERS/0120 REV.01 C	i0(10/13) REV.1 OR) 1.5% FOR DIMENS		AISI 304	AISI 304	AISI 304	AISi7Mg0.6, UNE-EN1706/T6	SPEC.	
₽ P)S ARE	ž		SIONS		2	_	1	_	NUMBER OFF	



REF

DESCRIPTION

PART No.

MATERIAL Al. Alloy

SPEC.

NUMBER OFF

AW 6082 EN - 573 - 3 / 1050

TUBE CAP FOR 55 MM TUBE

- ALL DIMENSIONS ARE IN MM.

 TOLERANCES ARE AS PER TI/SPC/OHE/FITTINGS/0130(10/13) REV.1

 FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR

 LATEST.

 FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR

 LATEST.

 ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS /

 APPLICABLE WHEREVER REQUIRED.

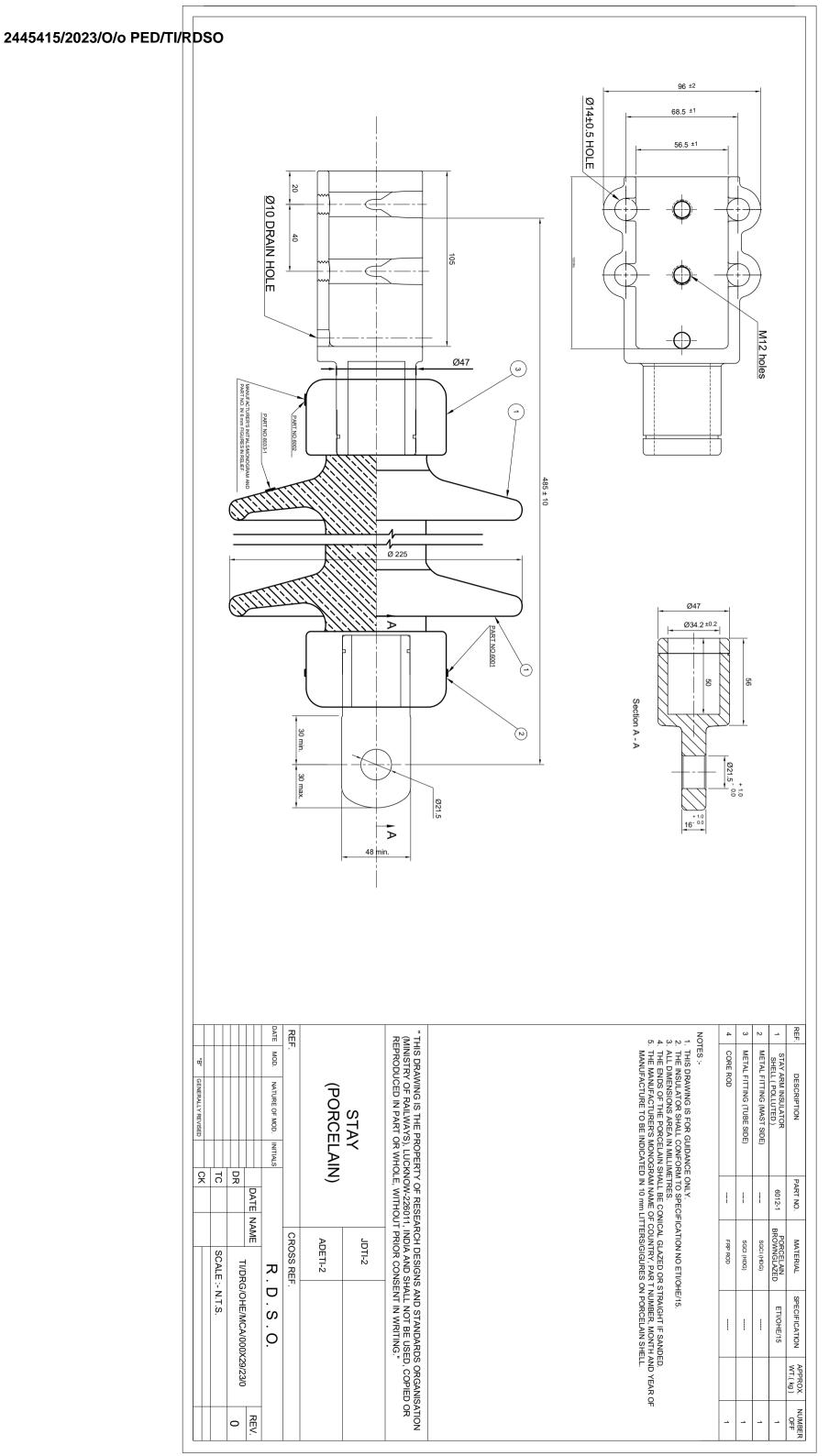
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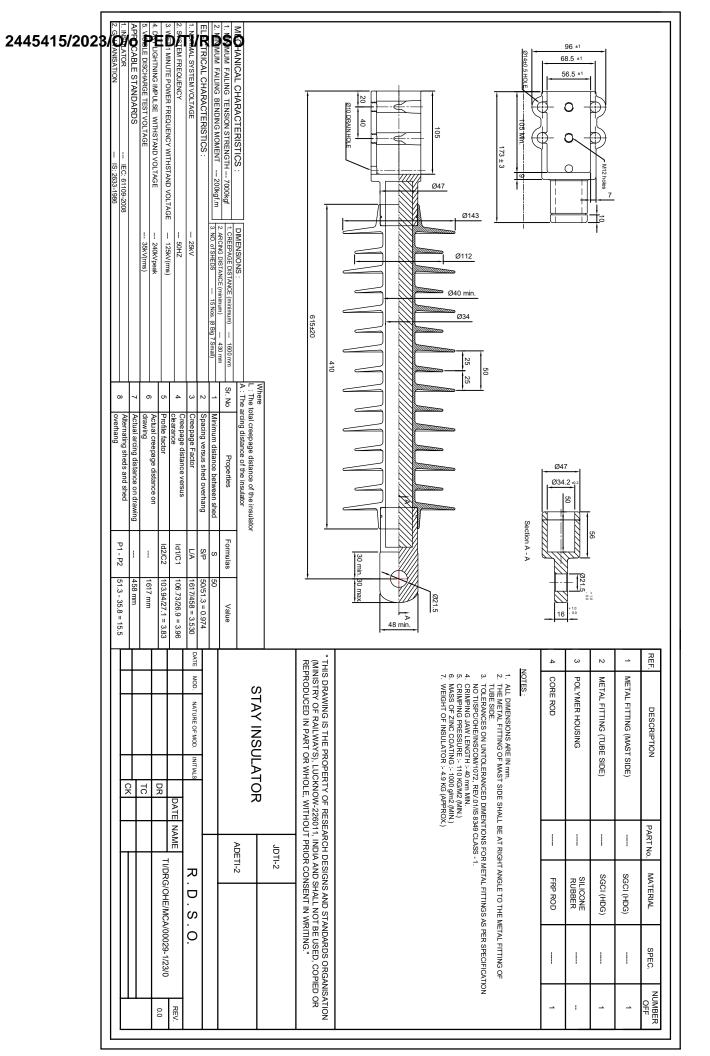
				DATE MOD. NATURE	MI	TUBE CAP FOR 55
				NATURE OF MOD. INITIALS	MM TUBE	CAP
				INITIALS	BE	Ç Ç
5	TC	DR				5
			DATE		·	01
			DATE NAME		AD	JD.
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	::- NTS			R.D.S.O.		

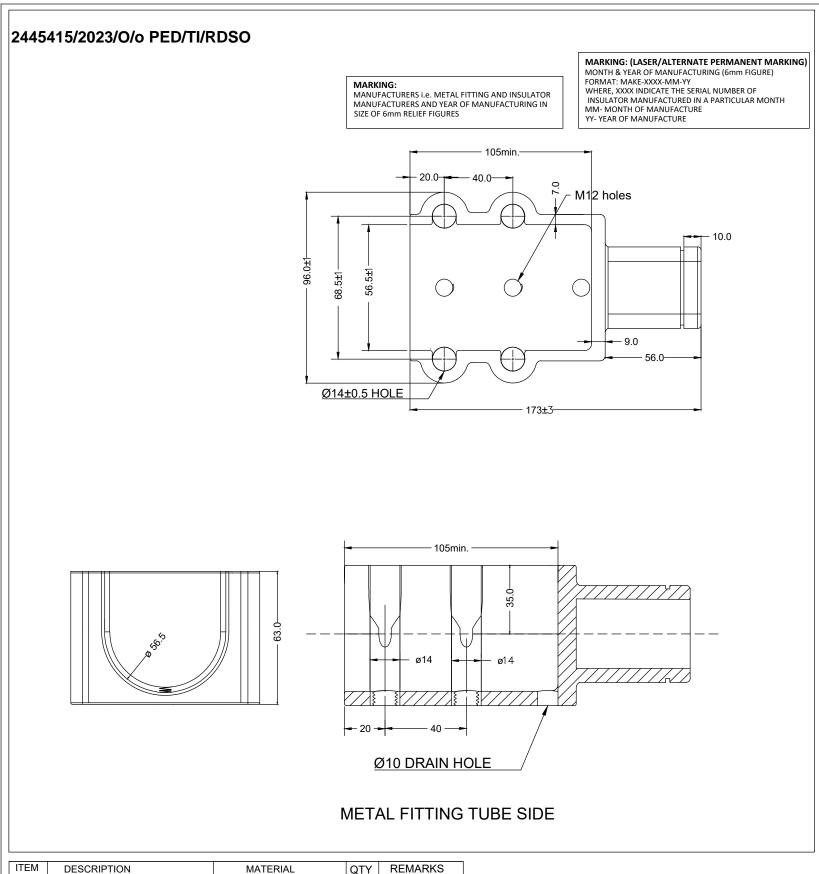
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2445415/2023/O/o PED/TI/RDSO Ø70.4 Ø73.8 57 Ø70.4 Ø73. DATE REF. THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS AND STANDARDS ORGANISATION (MINISTRY OF RAILWAYS), LUCKNOW-226011, INDIA AND SHALL NOT BE USED, COPIED OR REPRODUCED IN PART OR WHOLE, WITHOUT PRIOR CONSENT IN WRITING." MOD. TUBE CAP FOR 55 MM TUBE ALL DIMENSIONS ARE IN MM. TOLERANCES ARE AS PER TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 TOLERANCES ARE AS PER TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 FITTING CONFIRM TO SPECIFICATION NO: TI/SPC/OHE/FITTINGS/0130(10/13) REV.1 OR LATEST. FASTENERS CONFIRM TO SPECIFICATION NO. TI/SPC/OHE/FASTENERS/0120 REV.01 OR LATEST. ALL STANDARDS SHALL BE TAKEN LATEST. AND INDIAN & INTERNATIONAL STANDARDS ARE APPLICABLE WHEREVER REQUIRED. **TUBE CAP FOR 70** NATURE OF MOD. DESCRIPTION MM TUBE INITIALS 웃 тс PR DATE NAME PART No. ADE/OHE JDTI/OHE SCALE :- NTS TI/DRG/OHE/MCA/000X28/23/0 IJ MATERIAL Al. Alloy . . ഗ AW 6082 EN - 573 - 3 / 1050 0 SPEC. NUMBER OFF REV. 0.0







HDG

HDG

1 METAL FITTING (MAST SIDE)

2 METAL FITTING (TUBE SIDE)

TYPE OF METAL FITTING. 3. DIMENSION TOLERANCE:

CLASS-I OF IS:8349

NOTES: 1. MATERIAL SGCI

SGCI

--- AS PER IEC 61109/

5. METAL FITTING CONFORMS TO RDSO SPEC. NO. TI/SPC/OHE/INSCOM/1072, REV-00

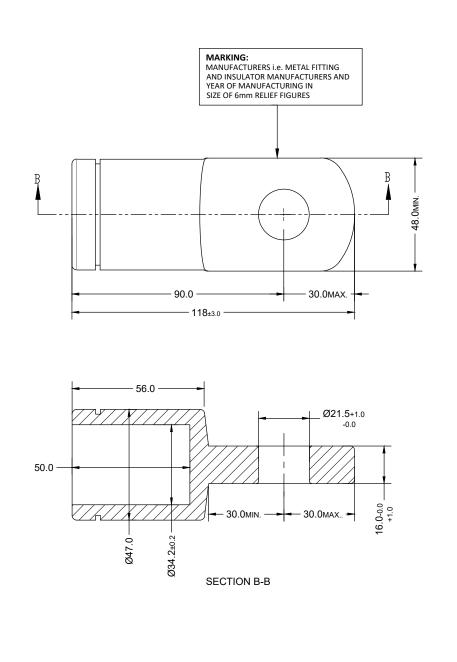
6. ALL THE DIMENSIONS & TOLERANCES ARE APPLICABLE AFTER HOT DIP GALVANISATION

4. TOLERANCES OF UNTOLERANCED DIMENSIONS FOR METAL FITTING AS PER

. GALVANISATION CONFORMS TO --- RDSO SPEC. NO. ETI/OHE/13(4/84), IS:2633 & TI/SPC/OHE/INSCOM/1072, Rev-00 THE MINIMUM WEIGHT OF ZINC COATING SHALL BE 1000g/m² (MIN.) FOR ALL

TI/SPC/OHE/INSCOM/1072, Rev-00

--- SGCI(HDG)



METAL FITTING MAST SIDE

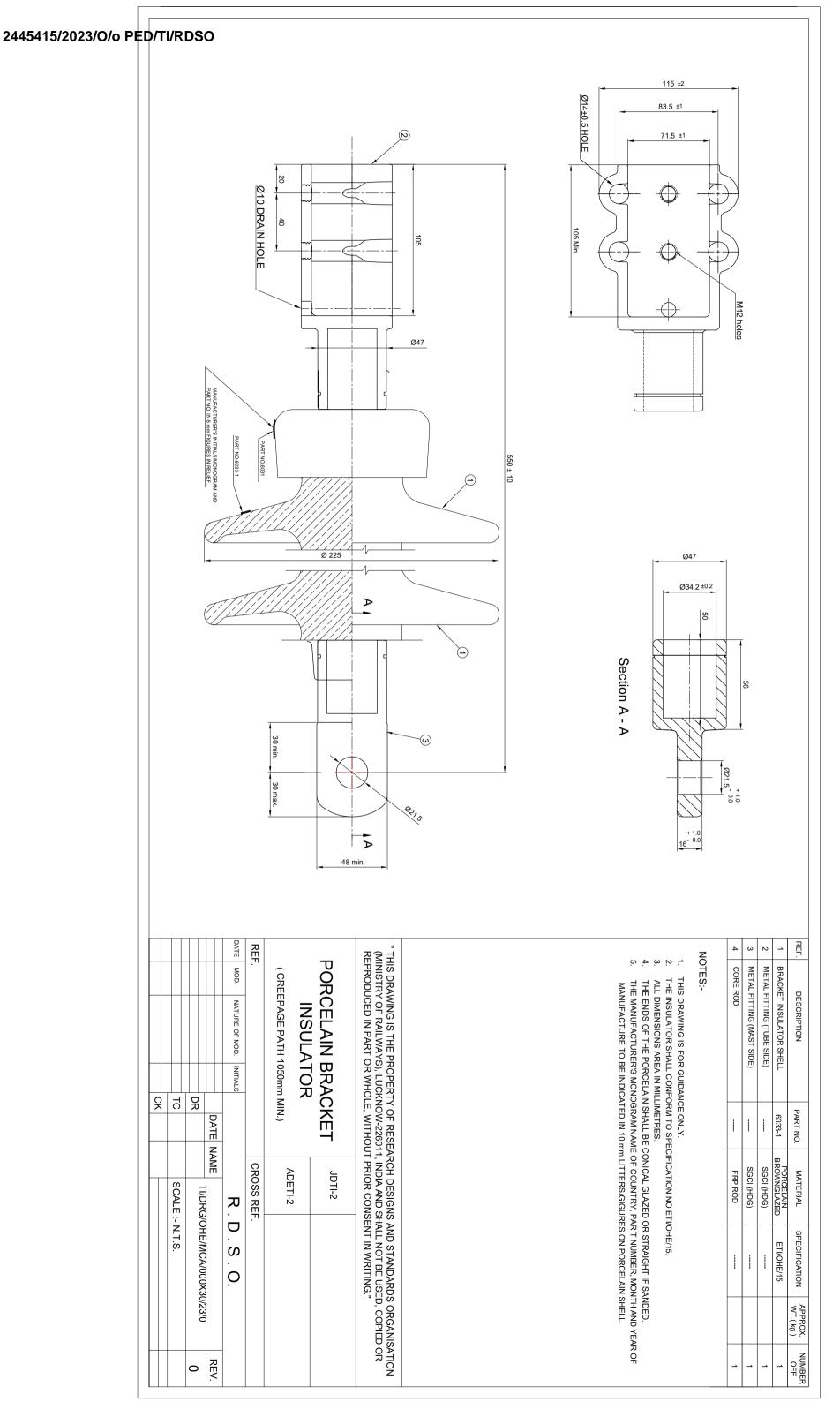
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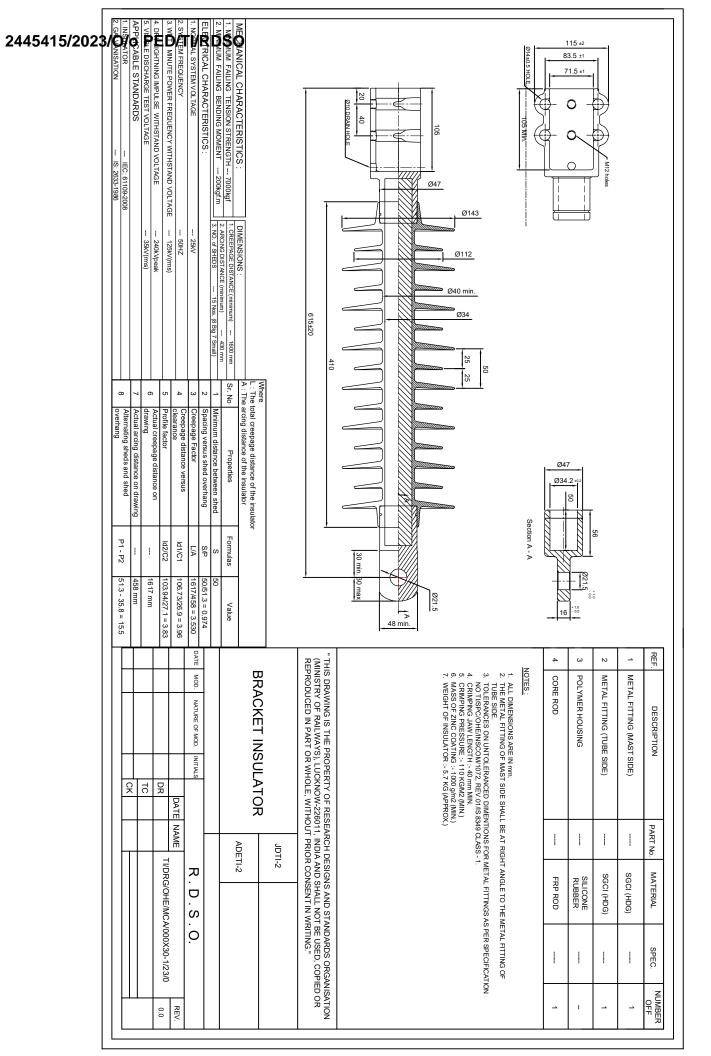
ALL DIMENSIONS ARE IN "mm"

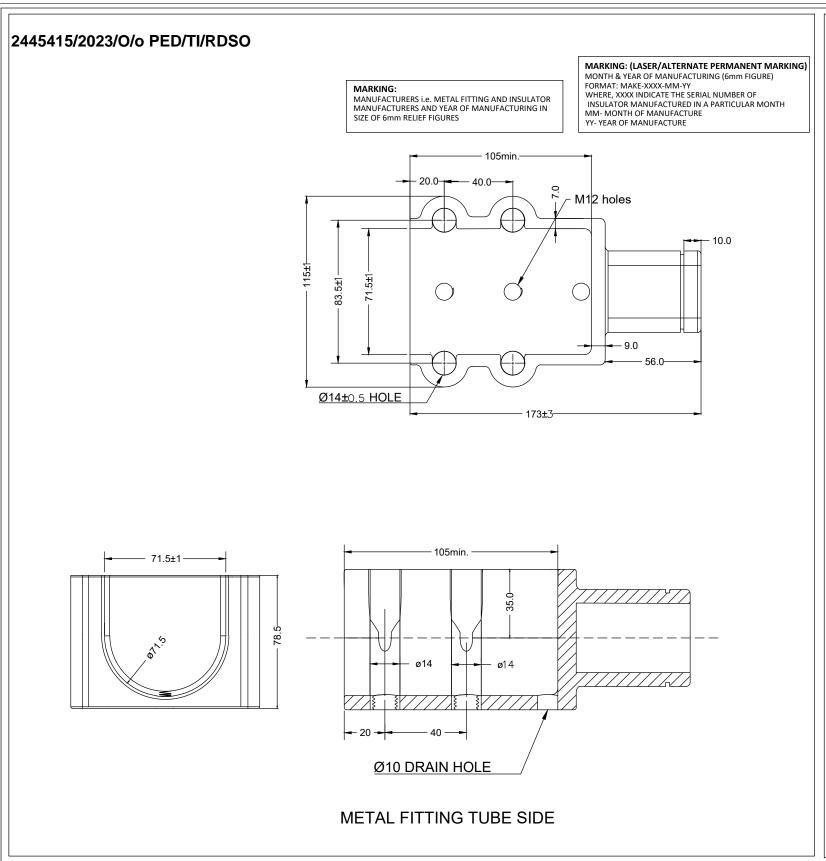
	NAME	SIGNATURE	DATE		R.D.S.O.			
Drawn by				N.D.S.U.				
Checked by								
App'd by								
Q.A								
				TITLE	STAY ARM 55MM TUBE			
PROJECTION: - (-)								
		$\varphi \cup$		A3	SHEET 1 OF 1			

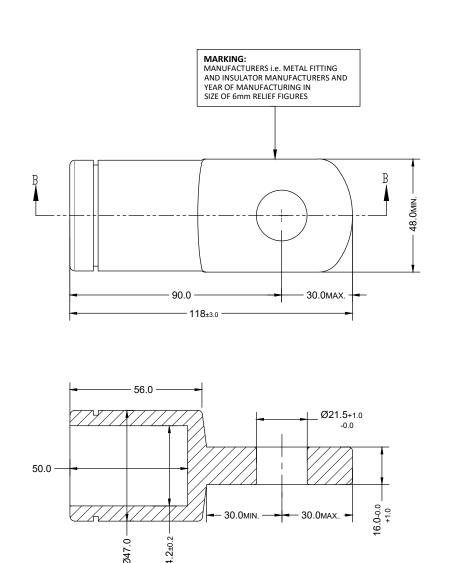
MECHANICAL
1. TENSION LOAD
O DEVIDING MOM

_ CHARACTERISTICS : --- 7000kgf 2. BENDING MOMENT LOAD --- 200kgf.m









SECTION B-B

269

METAL FITTING MAST SIDE

DESCRIPTION MATERIAL REMARKS QTY 1 METAL FITTING (MAST SIDE) HDG SGCI 2 METAL FITTING (TUBE SIDE) SGCI HDG

NOTES:

1. MATERIAL --- SGCI(HDG)

. GALVANISATION CONFORMS TO --- RDSO SPEC. NO. ETI/OHE/13(4/84),

IS:2633 & TI/SPC/OHE/INSCOM/1072, Rev-00

THE MINIMUM WEIGHT OF ZINC COATING SHALL BE 1000g/m² (MIN.) FOR ALL

TYPE OF METAL FITTING.

3. DIMENSION TOLERANCE: --- AS PER IEC 61109/

TI/SPC/OHE/INSCOM/1072, Rev-00

4. TOLERANCES OF UNTOLERANCED DIMENSIONS FOR METAL FITTING AS PER

CLASS-I OF IS:8349

5. METAL FITTING CONFORMS TO RDSO SPEC. NO. TI/SPC/OHE/INSCOM/1072, REV-00

6. ALL THE DIMENSIONS & TOLERANCES ARE APPLICABLE AFTER HOT DIP GALVANISATION

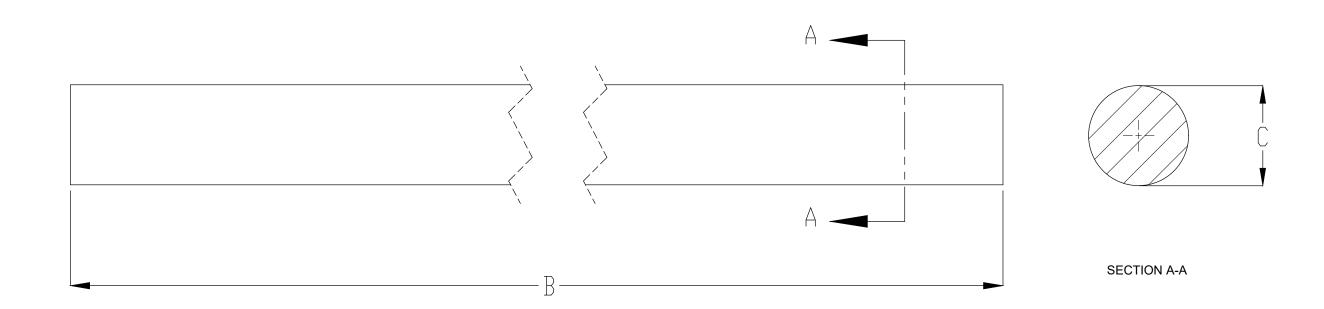
MECHANICAL CHARACTERISTICS:

1. TENSION LOAD 2. BENDING MOMENT LOAD --- 200kgf.m

--- 7000kgf

ALL DIMENSIONS ARE IN "mm"

	NAME	SIGNATURE	DATE		DDCC	\		
Drawn by				R.D.S.O.				
Checked by								
App'd by								
Q.A								
	_			TITLE	BRACKET FITTING 70N	1M TUBE		
PROJECTION:								
TROSECTION.		А3		SHEET 1 OF 1				



Sr. no.	INSULATOR DESCRIPTION	REF. DRAWING NO.	FRP ROD LENGTH (B)	FRP ROD DIAMETER (C)
1	25KV COMPOSITE BRACKET INSULATOR (1600mm CD)		456±3	34
2	25KV COMPOSITE STAY ARM INSULATOR (1600mm CD)		456±3	34

П					
	ITEM	DESCRIPTION	MATERIAL	QTY	REMARKS
	1	GLASS ROVING	ECR GLASS		
			BORON FREE		
	2	RESIN SYSTEM	EPOXY RESIN		

NOTES:				

1. DIMENSION TOLERANCE AS PER IEC 61109/
TI/SPC/OHE/INSCOM/1072, Rev-00
2. FRP ROD CONFORMS TO RDSO SPEC. NO. TI/SPC/OHE/INSCOM/1017, Rev-01

MECHANICAL CHARACTERISTICS :			
1. TENSION LOAD 7000kgf			
2. BENDING MOMENT LOAD 200kgf.m			

ALL DIMENSIONS ARE IN "MM"

ALL DIMENS	-		D.4.T.F.	1		
	NAME	SIGNATURE	DATE	1	D D C C	\
Drawn by					R.D.S.O	
Checked by						
App'd by						
Q.A					OFIG / COMPOSIT	E INOLII ATOD
				TITLE	25KV COMPOSIT FRP ROD (160	
PROJECTION: -						
				A3		SHEET 1 OF 1