

TENDER DRAWINGS

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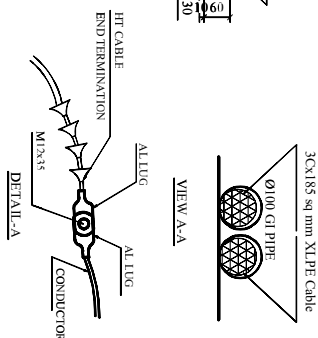
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2	Universal Pole Bracket	REC/RDSS/LT-ACC-ABC/02
3	Anchoring Assembly (Cable Range 25-50 sqmm.)	REC/RDSS/LT-ACC-ABC/03A
4	Anchoring Assembly (Cable Range 70-95 sqmm.)	REC/RDSS/LT-ACC-ABC/03B

5	Service Clamp	REC/RDSS/LT-ACC-ABC/04
6	Multiport Insulation Piercing Connector Stripping/Piercing	REC/RDSS/LT-ACC-ABC/05A
7	Insulation Piercing Connector	REC/RDSS/LT-ACC-ABC/05B
8	Earthing Connector	REC/RDSS/LT-ACC-ABC/06A
9		REC/RDSS/LT-ACC-ABC/06B
10	Suspension Assembly (Cable Range 25-70 sqmm.)	REC/RDSS/LT-ACC-ABC/07A
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7	Stone/RCC Base Plate For stay set	REC/RDSS/GEN/05C
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11	Spiral/Coil Earthing Details	REC/RDSS/GEN/08
12	Stay Set Arrangement on PCC/PSC Pole	REC/RDSS/GEN/09A
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3		REC/RDSS/LT/02A
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7	GA of LT Line Vertical Formation on Single (In Angular Arrangement) 1Ph, 2Wire	REC/RDSS/LT/06
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9		REC/RDSS/LT/07B
10	415/240 V lines conductor formation and clearances horizontal formation	REC/RDSS/LT/08

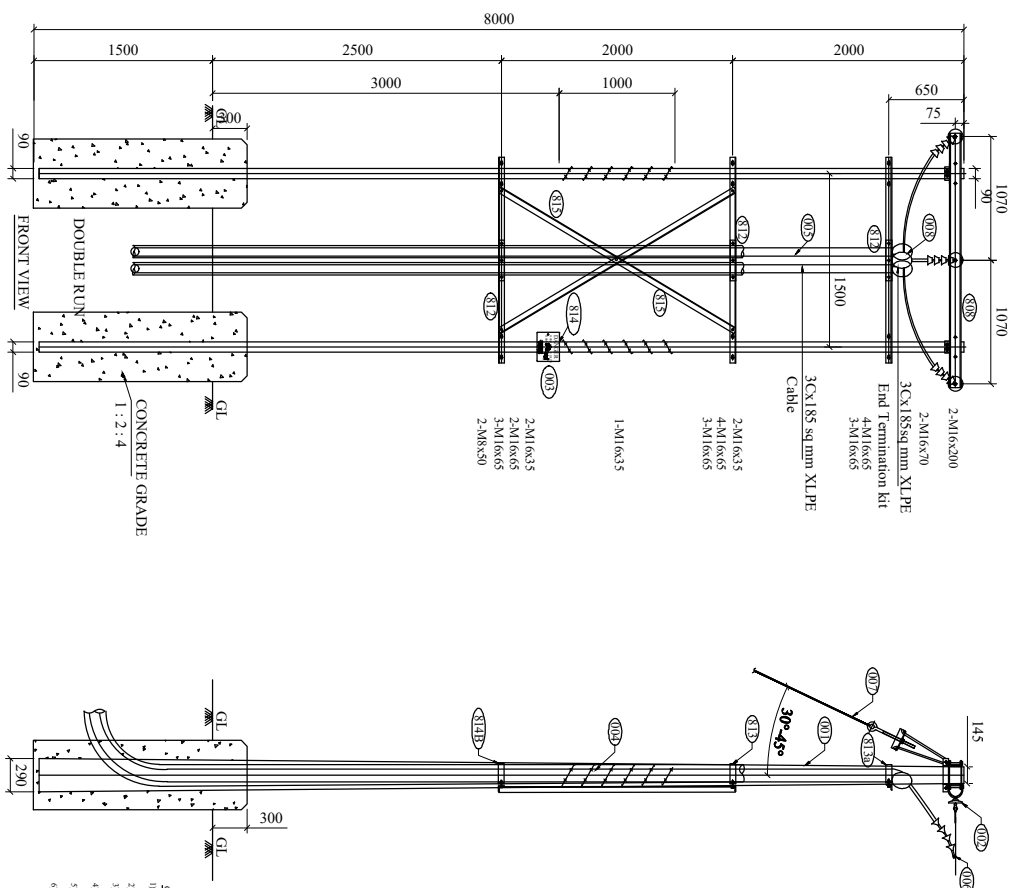
11	415/240V line supports Vertical formation	REC/RDSS/LT/09
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16	415/240 V Lines conductor formation and clearance, 3 Ø, 4 W(Vertical formation)	REC/RDSS/LT/14
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4	Ground Floor Toilet Layout	REC/RDSS/CIVIL/04
5	Ground & First Floor Electrical Layout	REC/RDSS/CIVIL/05
6	Elevation & Section-XX	REC/RDSS/CIVIL/06
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9	Ground Floor Lintel Chajja Layout & Detail	REC/RDSS/CIVIL/09
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16	Concreting of stay set for 11kV & LT line	REC/RDSS/CIVIL/16
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		Rural Electrification Corporation Ltd.		
PROJECT:		Revamped Distribution Sector Scheme (RDSS)		
TITLE		GA OF 11 KV LINE CROSSING OF RAIL WAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES		
DATE	SCALE	DRG. NO	REV. NO.	
	NTS			R0
	SIZE			SIT. NO
A3	REC/RDSS/11KV/02A		1 OF 1	





- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) FOR EARTHING REF. BEGINS WITH 'R' IN C.D. 06
 - 3) FOR PENETRATION DETAILS REF. DMS. NO. NISCL-DE-15/09
 - 4) ALL CHANNELS & ANGLES SHALL CONFORM TO IS 2062
 - 5) ALL MS PARTS SHALL CONFORM TO IS 2062
 - 6) ALL MS PARTS SHALL BE HOT DIP GALVANIZED AS PER IS 2062 & IS 4759

FOR TENDER PURPOSE ONLY

BILL OF MATERIALS				
ERE. CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)
001	8mm/200x6 FSC Pole			2
002	11KV Diec. Insulator with Hardware			3
003	11 KV Dangle Board			1
004	Batted wire			As Req
005	P/G Clamps			3
007	Stay Set Arrangement			2
808	Top Channel	110x50	2200	2
812	Belting Angle	50x50x6	1771	3
815	Bracing Angle	50x50x6	2247	2
809	Fish Plate	50x8	300	6
813a	Top Clamp for Belting Angle	50x8	504	2
813	Clamp A for Belting Angle	50x8	554	2
814b	Clamp B for Belting Angle	50x8	626	2
810	Clamp for Stay Set	30x3	349	4
814	Dangle Board Clamp	30x3	680	1
881a	Clamp A for GI Pole	50x8	380	4
880	Clamp B for XLPE Cable	50x8	265	2
TOTAL :				107.06
A	Bolt and Nut	M16	200	4
B	Bolt and Nut	M16	70	4
C	Bolt and Nut	M16	85	21
D	Bolt and Nut	M16	35	5
E	Bolt and Nut	M12	35	3
F	Bolt and Nut	M8	50	2
	Spring Washers	M16		34
	Spring Washers	M12		3
	Plain washer	M16		34
	Plain washer	M12		3
	Plain washer	M8		2
TOTAL :				7.383

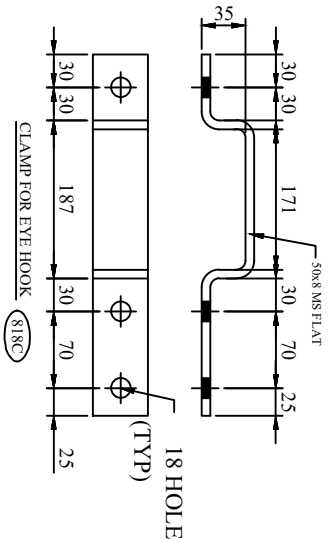
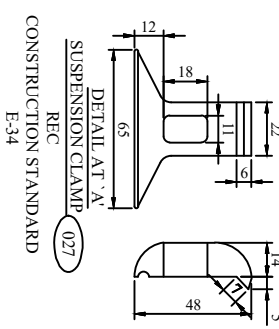
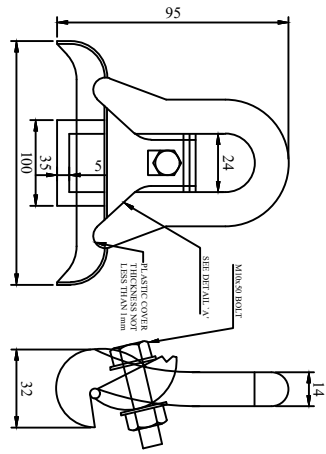
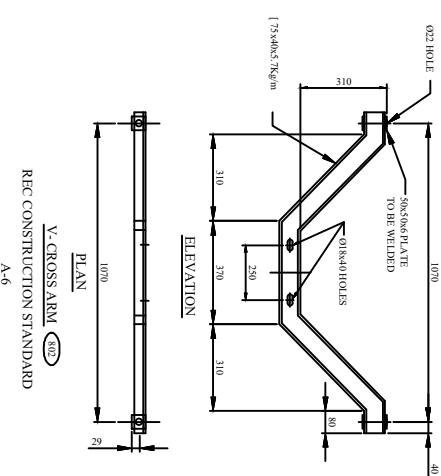
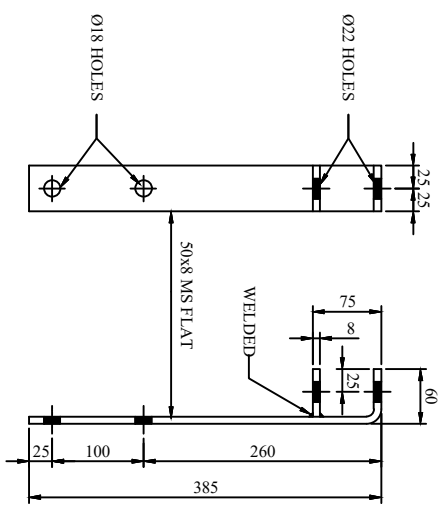
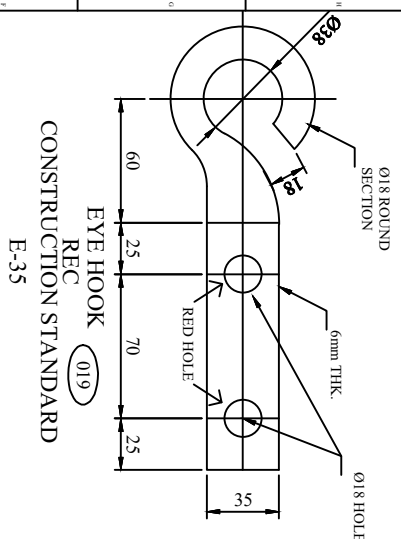


Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

GA OF 11 KV LINE CROSSING OF RAIL WAY
USING 3c X 185 SQMM XLPE CABLE ON
DP STRUCTURE PCC/PSC POLES

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0	GRB	RVG			
SCALE	DRG. NO.	REV. NO.			
NTS		R0			
SIZE		1 OF 4			
A3	REC/RDSS/11KV/2D				



11KV LINES POLE TOP BRACKET REC CONSTRUCTION STANDARD A-7

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE:
UP TO 50mm - $\pm 3\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT & LENGTH MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 7) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS:SP 6, PART-1.
- ALL CHANNELS SHALL BE IS/C CHANNELS.

FOR TENDER PURPOSE ONLY

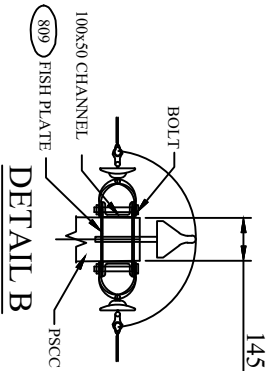
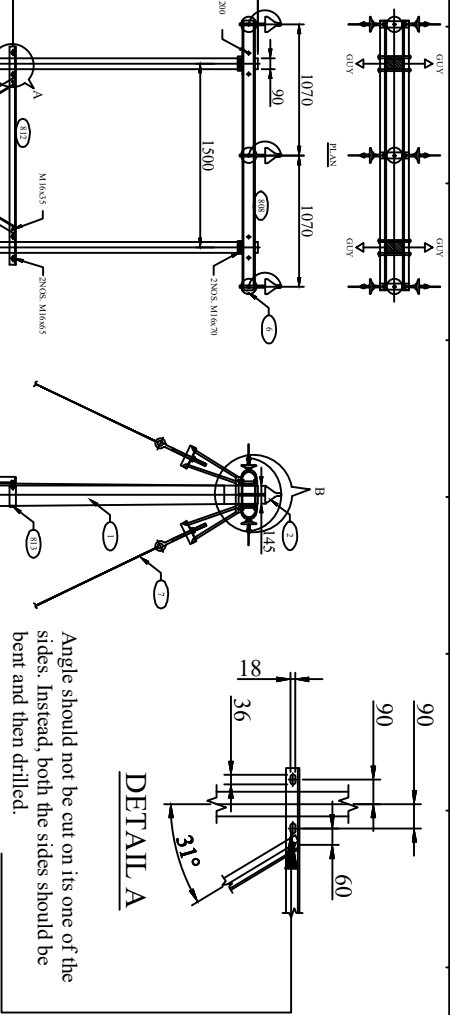
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

TITLE COMPONENTS FOR 11KV COMPOSITE (ON LINE & ANGULAR LOCATION)
LINE FORMATION ON SINGLE PSC/PCC POLE

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					


SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/11KV/03	1 OF 1	0



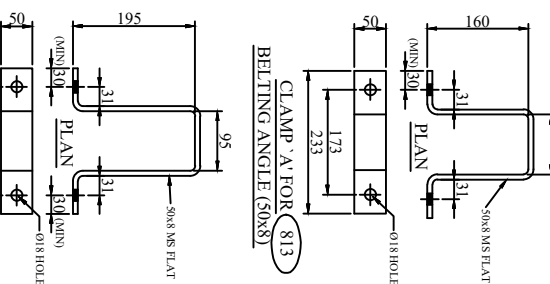
BILL OF MATERIAL		
ERE CODE	DESCRIPTION	REF. DRG. NO.
1	RM200KG PSCC POLE	REC-XII Plan-GEN-001A
2	11kV PIN INSULATOR WITH GI PINS	3 NOS.
3	BARBED WIRE	7000MM
4	11kV DANGER BOARD	1 NO.
5	PPE EARTHING	1 SET
6	11kV DISK INSULATORS WITH HW	6 NOS.
7	STAY SET ARRANGEMENT	4SET
8	TOP CHANNELS (100x50)	2 NOS.
812	BELTING ANGLES (50x50x6)	2 NOS.
815	BOLTING ANGLES (50x50x6)	2 NOS.
809	FISH PLATE	6 NOS.
816	TOP CLAMPS FOR ANTI CLIMBING DEVICE	1 SET
817	BOTTOM CLAMPS FOR ANTI CLIMBING DEVICE	1 SET
813	CLAMP A FOR BELTING ANGLE	2 NOS.
814B	CLAMP B FOR BELTING ANGLE	2 NOS.
810	CLAMP FOR STAY SET	4 NOS.
	BOLTS AND NUTS	AS REQD.

- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
 - 2) MANUFACTURING TOLERANCE
UP TO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 - 3) ALL MS PARTS SHALL CONFIRM TO IS : 2062
 - 4) ALL MS. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 2629&4759
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 7) ALL CHANNELS & ANGLES SHALL CONFORM AS PER IS:SP6 PART-1
 - 8) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONALISING AT AN INTERVAL OF 1.6KM.

FOR TENDER PURPOSE ONLY

	
PROJECT: Rural Electrification Corporation Ltd.	
Revamped Distribution Sector Scheme (RDSS)	
TITLE GA OF 11kV LINE FORMATION AT DP ON PSC/PCC POLE WITH COMPONENTS (IN LINE ARRANGEMENT)	
SIZE SCALE DRG. NO.	SHT. NO. REV. NO. 1 OF 2 0
AS NTS REC/RDSS/11KV/04A	

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



BILL OF MATERIAL						
ERP CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.	TOTAL WT. KG
906	TOUCH CHANNEL	106549	M.S.	2500	7.9	3476
912	BLINDING ANGLE	59584040	M.S.	1780	4.5	2505
915	BLOCKING ANGLE	5955606	M.S.	358	2.5	2505
909	FISH PLATE	50504	M.S.	300	3.14	6505
916	TOP CLAMP FOR ANTI CLAMMING DRIVE	4052	M.S.	395	1.60	4505
917	BOTTOM CLAMP FOR ANTI CLAMMING DRIVE	4052	M.S.	413	1.60	4505
913	CLAMP A FOR BLINDING ANGLE	50504	M.S.	555	3.14	2505
910	CLAMP B FOR BLINDING ANGLE	50504	M.S.	605	3.14	2505
910	CLAMP FOR STAY SET	50504	M.S.	355	3.14	4505
9090		80049100	M.S.	125	0.22	115505
TOTAL						97734

Sr. No.	Description	Section	Material	Length MM	Qty.	Total Wt. Kg.
10	NUTS & BOLTS	M16	200	0.0396(C.N.O.)	4 NOS.	1.56
11	NUTS & BOLTS	M16	35	0.1176(C.N.O.)	12 NOS.	1.96
12	NUTS & BOLTS	M16	65	0.1176(C.N.O.)	3 NOS.	0.58
13	NUTS & BOLTS	M10	60	0.0356(C.N.O.)	8 NOS.	0.40
14	NUTS & BOLTS	M8	50	0.0436(C.N.O.)	2 NOS.	0.10
15	SPRING WASHERS	M16	3.5 THK.	0.0936(C.N.O.)	21 NOS.	0.18
16	SPRING WASHERS	M10	3.5 THK.	0.0436(C.N.O.)	8 NOS.	0.25
17	SPRING WASHERS	M8	3.5 THK.	0.0436(C.N.O.)	2 NOS.	0.04
18	PLAIN WASHER	M16	3 THK.	0.0356(C.N.O.)	21 NOS.	0.15
19	PLAIN WASHER	M10	3 THK.	0.0356(C.N.O.)	8 NOS.	0.08
20	PLAIN WASHER	M8	3 THK.	0.0436(C.N.O.)	2 NOS.	0.08
TOTAL					5.180	

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
2) MANUFACTURING TOLERANCE

- 3) ALL MS PARTS SHALL CONFORM TO IS 2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANIZED AS PER IS 2062&7550
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE
- 6) WEIGHT MENTIONED IS FOR PACKING & FORK LIFTING PURPOSE.
- 7) ALL CHANNELS & ANGLES SHALL CONFORM AS PER IS 86 PART-1
- 8) ALL CHANNELS SHALL BE ISLC CHANNELS.
- 8) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONALISING AT AN INTERVAL OF 1.6KM.



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

COMPONENTS FOR 11kV LINE FORMATION AT DP ON PSC/PCC POLE (IN LINE ARRANGEMENT)

SIZE	SCALE
------	-------

DRG. NO.

ANS

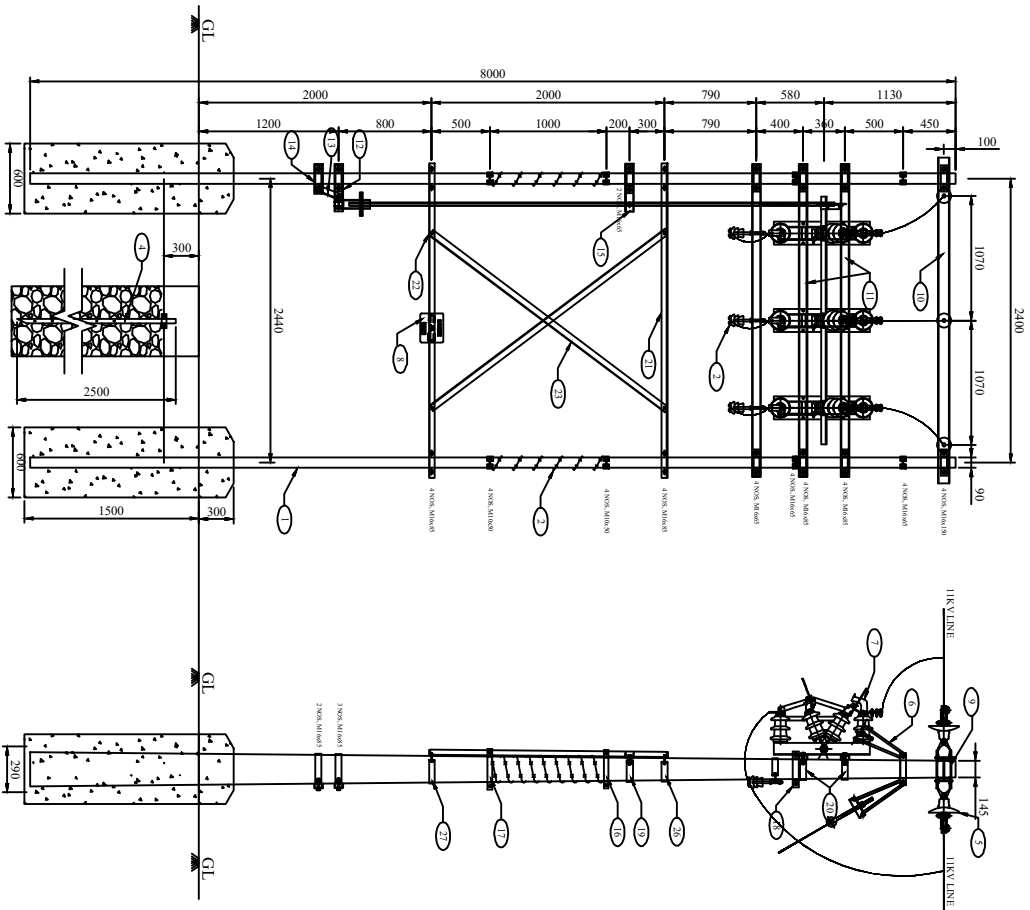
REC/RDSS/11KV/04B

SHT. NO.	REV. NO.
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20F 2	0
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RO					
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/11KV/04B	2 OF 2	0



BILL OF MATERIALS		
SER. NO.	DESCRIPTION	SECTION QTY.
1	50000G. PSC POLE	2 NOS.
2	1KV PIN INSULATOR WITH GL PINS	138T
3	10000V WIRE	1.5km x 2
4	10000V WIRE	1.58T
5	11KV STRAIN INSULATOR	6/8T
6	STAY SET ASSEMBLY	4/8T
7	11KV 600A AIR BREAK SWITCH	1/8T
8	11KV DANGER BOARD	1 NOS.
9	PHASE A/B	6 NOS.
10	TOP CHANNEL (100x50)	10x50
11	A/B SWITCH MOUNTING CHANNEL (75x40)	75x40
12	CHANNEL SUPPORT FOR OPERATING HANDLE (75x40)	75x40
13	ANGLE SUPPORT FOR OPERATING HANDLE	50x50x6
14	CHANNEL SUPPORT FOR OPERATING HANDLE	75x40
15	CHANNEL SUPPORT FOR OPERATING HANDLE (75x40)	75x40
16	TOP CLAMP FOR ANTI-Climbing Device	40x2
17	DOWNY CLAMP FOR ANTI-Climbing Device	40x2
18	DOWNY CLAMP FOR A/B SWITCH	2/8T
19	TOP CLAMP FOR A/B SWITCH OPERATING ROD	30x8
20	CLAMP FOR A/B SWITCH MOUNTING CHANNEL	30x8
21	TOP BELLING ANGLE	50x50x6
22	BOTTOM BELLING ANGLE	50x50x6
23	BELLING ANGLE	50x50x6
24	PIN INSULATOR SUPPORTING CHANNEL	75x40
25	DOWNY CLAMP FOR STAY SET	30x8
26	CLAMP FOR TOP BELLING ANGLE	30x8
27	CLAMP FOR BOTTOM BELLING ANGLE	30x8
28	CLAMP FOR CHANNEL SUPPORT FOR OPERATING HANDLE	30x8
29	CLAMP FOR PIN INSULATOR SUPPORTING CHANNEL	30x8

- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE
UPTO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS 2062.
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 2629 & 4759
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS: SPS PART-1
- ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY

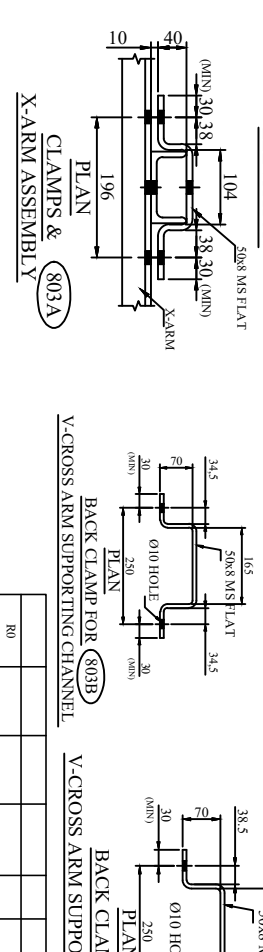
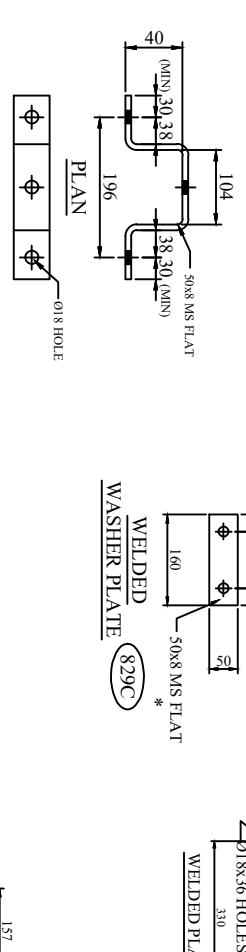
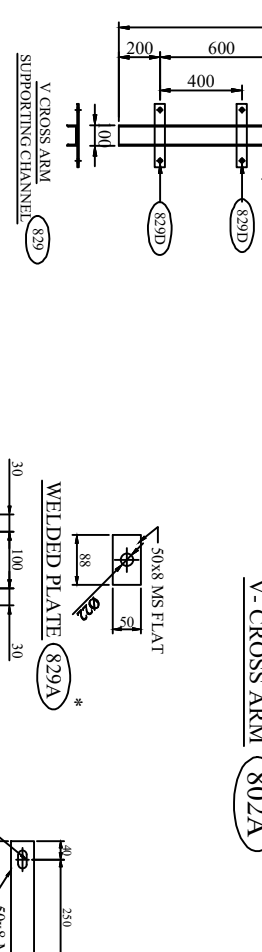
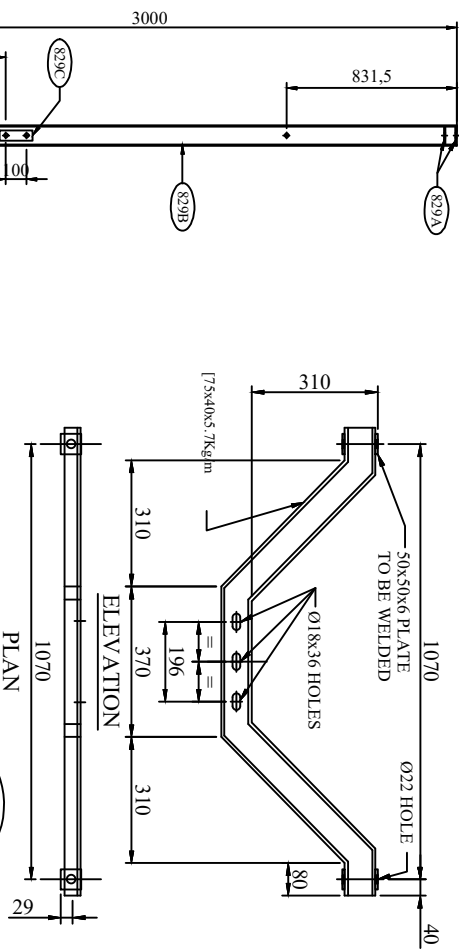


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Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: GA OF 11KV LINE SECTIONALIZER ON PSC/ PSC POLE

SCALE		DRG. NO.	REV. NO.
DATE	NTS		
02.06.09	SIZE	REC/RDSS/11KV/05A	R0
REV. NO.	BY	CHECKED	APPROVED
BY	BY	DATE	PROJECT



BILL OF MATERIAL					
REF. CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
802A	V-CROSS ARM	75x40	M.S.	1998.56	1 NO.
829	V-CROSS ARM SUPPORTING CHANNEL (MEXTN)	100x50	M.S.	3000	1 NO.
829A	WELDED PLATE	50x8	M.S.	8	1 NO.
829D	WELDED PLATE	50x8	M.S.	310	2 NO.
829C	WELDED PLATE	50x8	M.S.	310	2 NO.
803A	BACK CLAMP FOR V-CROSS ARM	50x8	M.S.	310	1 NO.
814	CLAMP FOR DANGER BOARD	30x3	M.S.	660	1 NO.
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395	2 NO.
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413	2 NO.
803B	BACK FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	480	1 NO.
803C	B/C FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	451	1 NO.
SPRKE	SPRKE FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	451	1 NO.
TOTAL					47972


DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL WT. KG.
NUTS & BOLTS	M16		140	0.283	2 NO.	0.566
NUTS & BOLTS	M16		100	0.230	1 NO.	0.230
NUTS & BOLTS	M16		65	0.164	6 NO.	0.984
NUTS & BOLTS	M10		60	0.055	4 NO.	0.220
NUTS & BOLTS	M8		60	0.05	2 NO.	0.100
SPRING WASHERS	M16		3.5 THK.	0.099	9 NO.	0.891
SPRING WASHERS	M10		3.5 THK.	0.03	4 NO.	0.12
SPRING WASHERS	M8		3.5 THK.	0.02	2 NO.	0.04
PLAIN WASHER	M16		3 THK.	0.015	9 NO.	0.135
PLAIN WASHER	M10		3 THK.	0.005	4 NO.	0.02
PLAIN WASHER	M8		3 THK.	0.004	2 NO.	0.008
TOTAL						2.422

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE
UP TO 50mm - ± 5%
51 TO 100mm - ± 4%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 2%
- 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- 7) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS 86 PART-I.

ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY



REC

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

TITLE
COMPONENTS FOR 11KV POLE EXTENSION FOR SINGLE PCC/PSC POLE

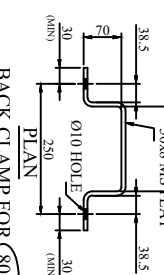
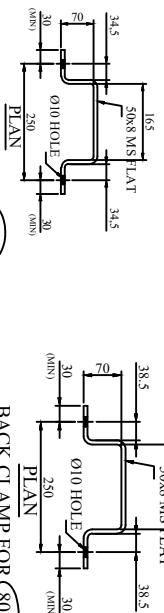
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/11KV/6B	2 OF 2	0

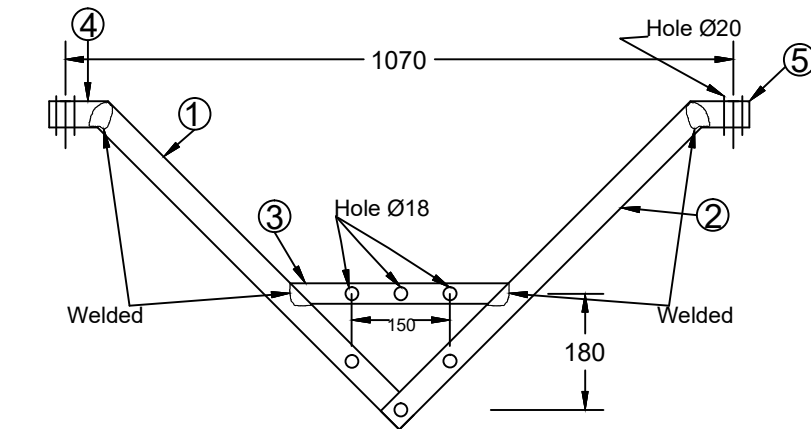
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
80					

CLAMPS & X-ARM ASSEMBLY

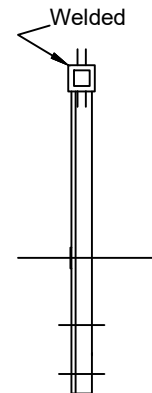
BACK CLAMP FOR (803B)

BACK CLAMP FOR (803C)

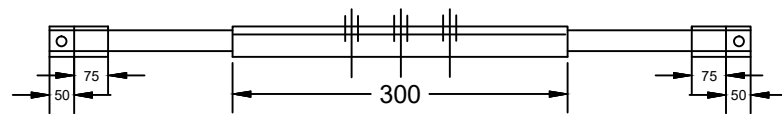




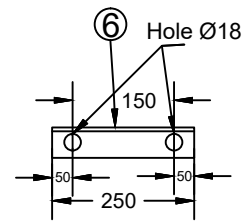
ELEVATION



END VIEW



PLAN



BACK CLEAT

11KV 'V' Cross-Arm

BILL OF MATERIAL

PART NO.	DESCRIPTION	QTY.	Weight (in Kg)
1	M. S. CHANNEL 75x40x6 = 710 LONG	1 No.	4.83
2	M. S. CHANNEL 75x40x6 = 635 LONG	1 No.	4.32
3	M. S. ANGLE 50x50x6 = 300 LONG	1 No.	1.35
4	M. S. ANGLE 65x65x6 = 125 LONG	2 Nos.	1.46
5	M. S. ANGLE 65x65x6 = 50 LONG	2 Nos.	0.58
6	M. S. CHANNEL 75x40x6 = 250 LONG	2 No.	3.4

FOR TENDER PURPOSE ONLY

All Dimensions are in mm.



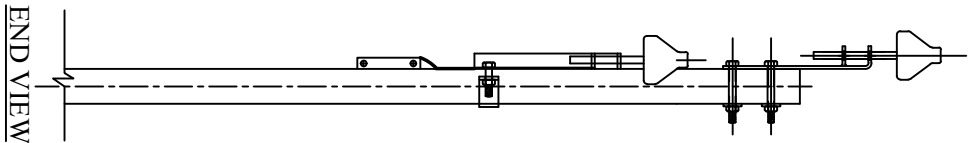
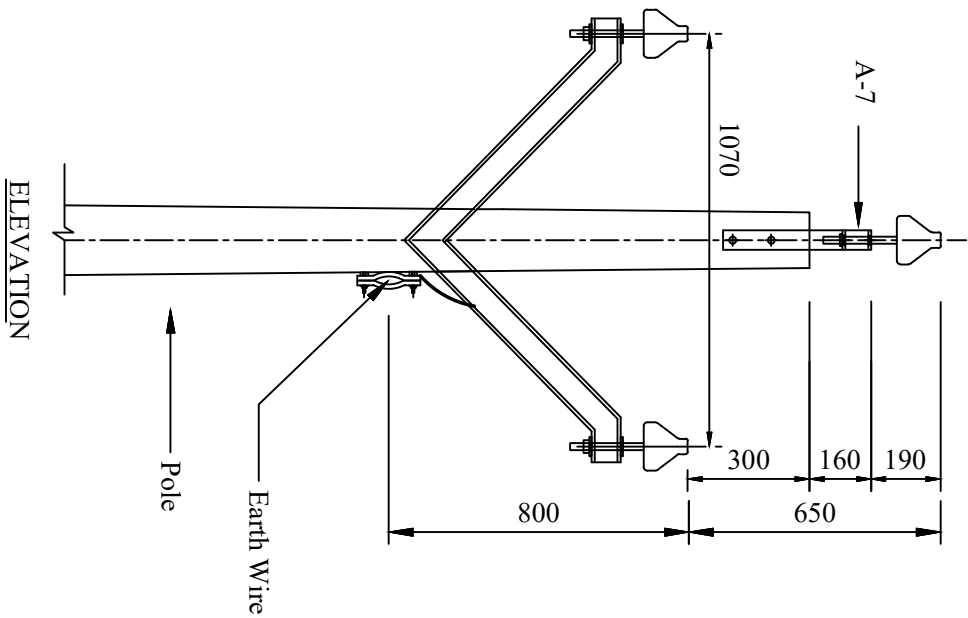
Rural Electrification Corporation Ltd.

PROJECT Revamped Distribution Sector Scheme (RDSS)

TITLE 11KV Bridling 'V' CROSS-ARM

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/07	1 OF 1	0



All Dimensions are in mm.

ELEVATION

END VIEW

Pole

Earth Wire

NOTE:- 11 KV -CONSTRUCTION WITHOUT CONTINUOUS EARTH WIRE VIDE A-2 IS PREFERRED.

TANGENT LOCATION

MAXIMUM SPAN-107 METERS

FOR TENDER PURPOSE ONLY

ALL DIMENSIONS ARE IN MM.



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINES CONDUCTOR FORMATION AND CLEARANCE WITH EARTH WIRE

SIZE/SCALE

A3 MTS

DRG. NO.

REC/RDSS/11KV/09

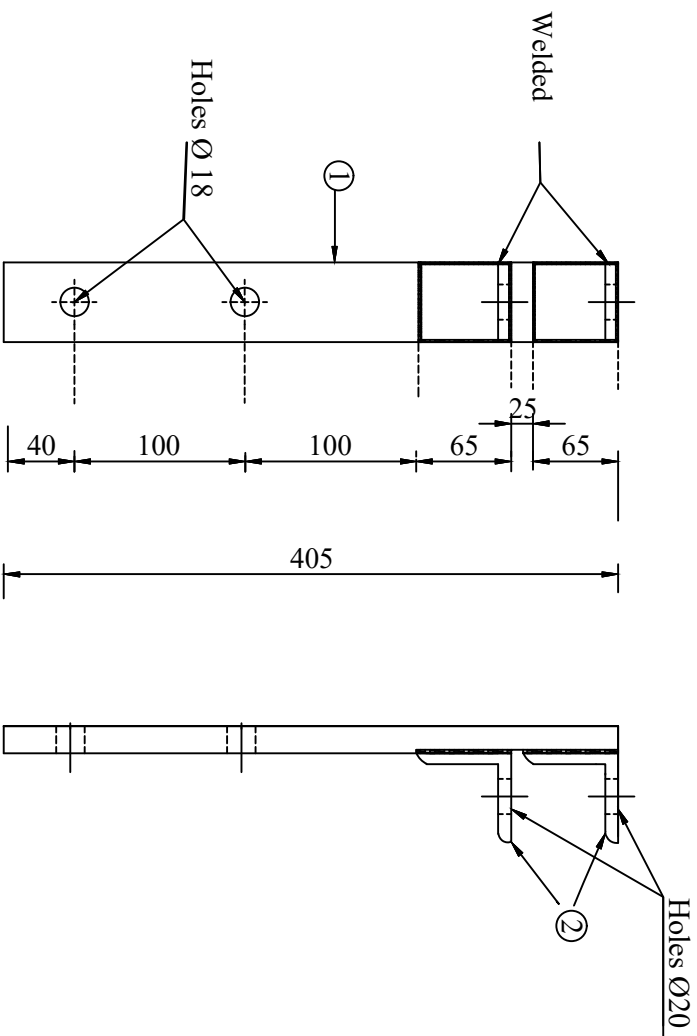
SHT. NO.

1 OF 1

REV. NO.

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REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

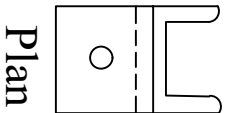


BILL OF MATERIAL		
Part No.	DESCRIPTION	QTY.
1	M.S Channel 75x40x60=405 Long	1 NOS.
2	M.S Angle 65x65x6=75 Long	2 NOS.

All Dimensions in mm

ELEVATION

END VIEW



Plan

FOR TENDER PURPOSE ONLY

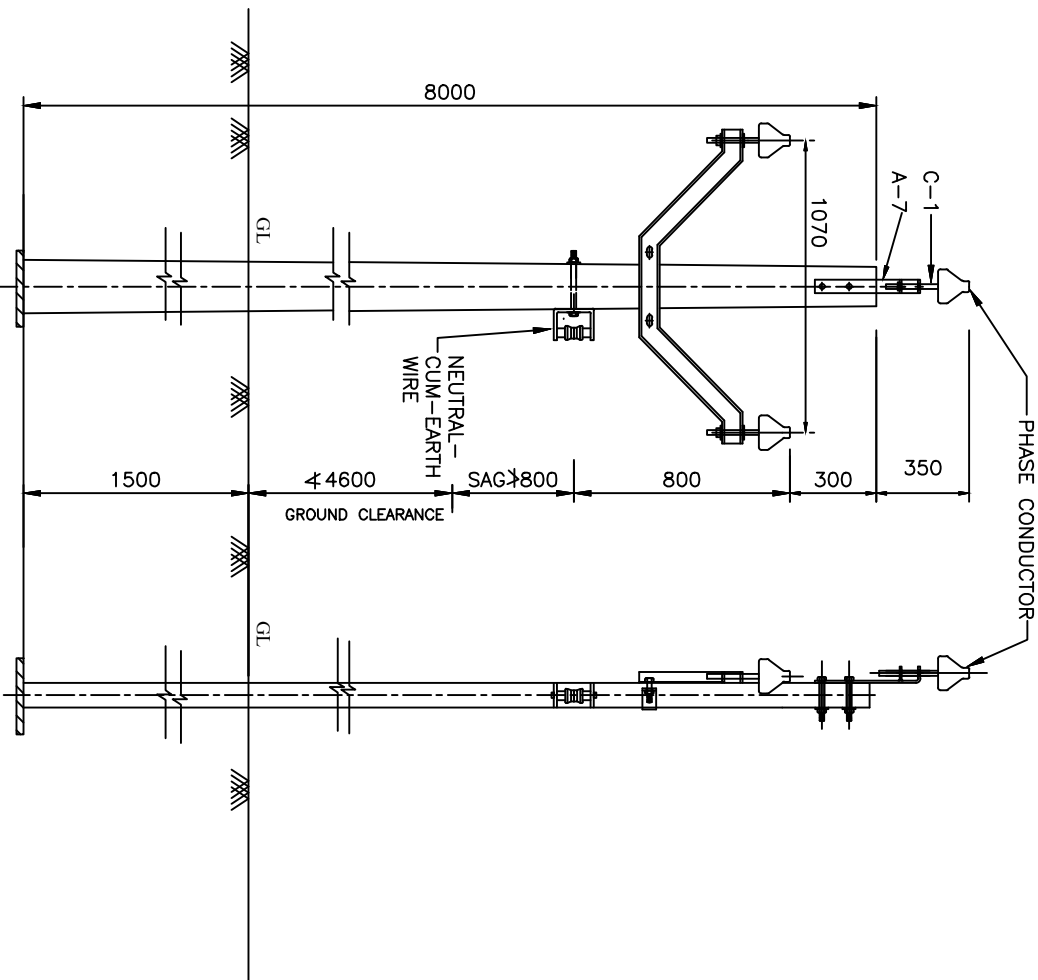
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINE POLE TOP BRACKET

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
A3	NTS				
SIZE SCALE	PRG. NO.	SHT. NO.	REV. NO.		
	REC/RDSS11KV/10	1 OF 1	0		



ALL DIMENSIONS ARE IN MM.

ELEVATION

SIDE VIEW

BILL OF MATERIAL

F.C.C SUPPORTS 8 M	1 Nos.
POLE TOP BRACKET	1 Nos.
V-CROSS ARM	1 Nos.
11 KV PIN INSULATORS WITH PINS	3 Nos.
SHACKLE INSULATORS	4 Nos.
U-CLAMP WITH BOLT	1 No.
EARTHING MATERIAL	1 No.
BOLTS,NUTS,CLAMPS ETC.	AS REQUIRED
BOLTS 16	1 Nos.
BASE PLATE	1 No.

NOTES:-

- IF THROUGH BOLT ARRANGEMENT FOR FIXING THE SHACKLE INSULATOR TO THE POLE IS NOT POSSIBLE SPLITBALE POLE CLAMP MAY BE USED.
- THE EARTH-CUM-NEUTRAL WIRE SHALL BE RUN ON LT SHACKLE INSULATOR.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE 11 KV LINES CONDUCTOR FORMATION AND CLEARANCES
OF 11 KV 3-PHASE LINE IN 3-PHASE/SINGLE PHASE COMPOSITE SYSTEM
(PHASE - TO-NEUTRAL)

SIZE/SCALE DRG. NO.

A3 MTS

REC/RDSS11KV/12

SHT. NO. REV. NO.

1 OF 1

0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



PLAN
AT A-A'



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REC

Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINES CONDUCTOR FORMATION AND
ARRANGEMENT OF GUYS FOR 10° TO 60° ANGLE LOCATIONS
(SINGLE POLE SUPPORT)

SIZE	SCALE	DRG. NO.
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SHT. NO.	REV. NO.
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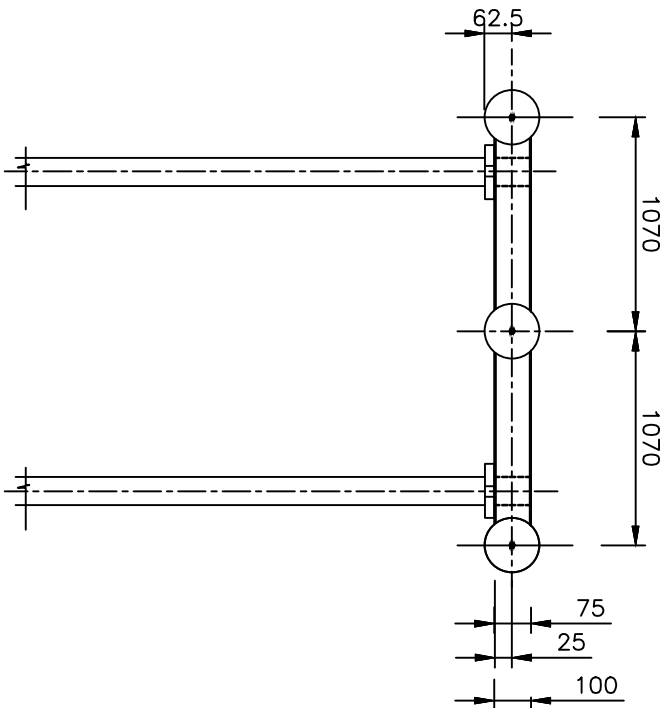
A3	NTS
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REC/RDSS/1KV/13

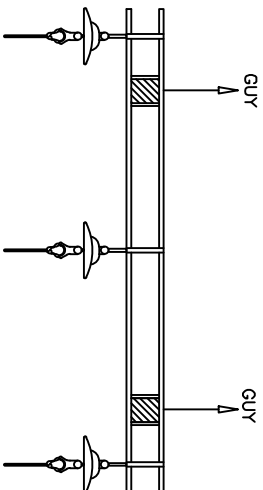
1 OF 1

0

R0					
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



ELEVATION



PLAN

NOTE:-
1. REFER REC CONSTRUCTION STANDARD
A-22 FOR TYPE OF POLE TO BE USED.

2. THE DRAWING INDICATES THE POSITION
OF GUY CLAMP ON THE POLE. THE
DIRECTION OF GUY WIRE SHALL BE
SUCH AS TO COUNTERACT THE
RESULTANT TENSION OF THE CONDUCTORS.

3. GUY ANGLE SHALL BE 30° TO 45°

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINES CONDUCTOR FORMATION AND
ARRANGEMENT OF GUYS FOR DEAD LOCATIONS (DOUBLE POLE SUPPORT)

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

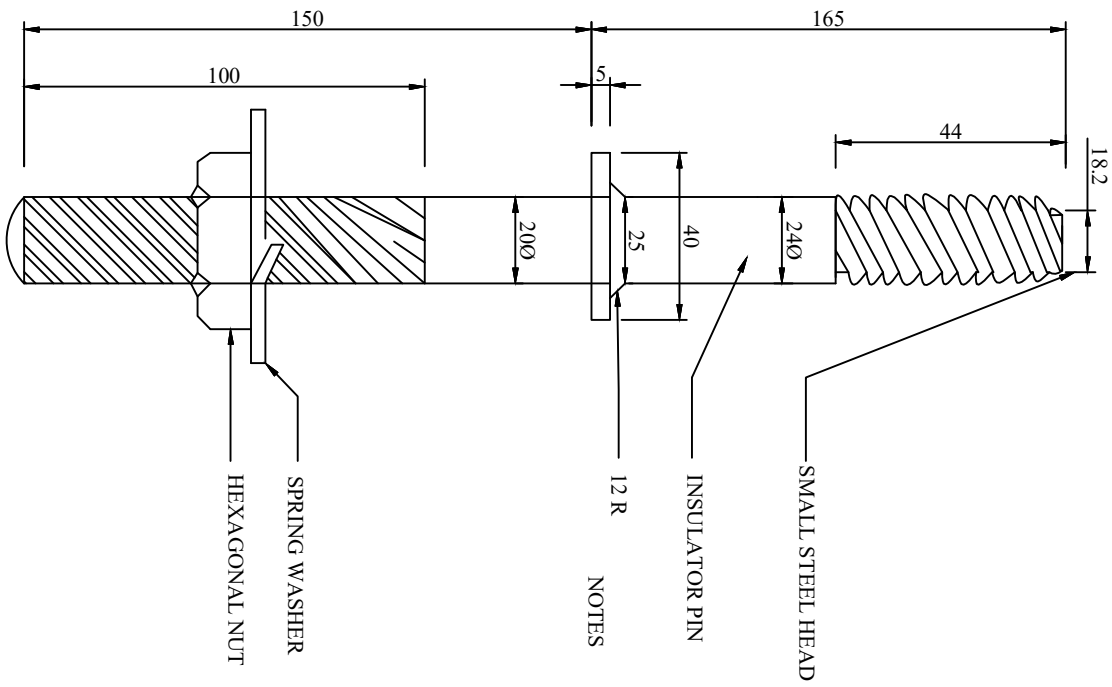
As MTS

REC/RDSS/11KV/14

1 OF 1

0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



1. PIN AS SHOWN SUITABLE FOR METAL CROSS ARM.
2. FOR WOOD CROSS ARM INSTEAD OF SPRINGS WASHER USE TWO SQUARE WASHERS 50x50x5mm ON THE TOP AND THE OTHER BOTTOM

11KV INSULATORS & FITTINGS
INSULATOR PINNUT
SCALE: NTS SEPT.-1972

ALL DIMENSION ARE IN mm.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

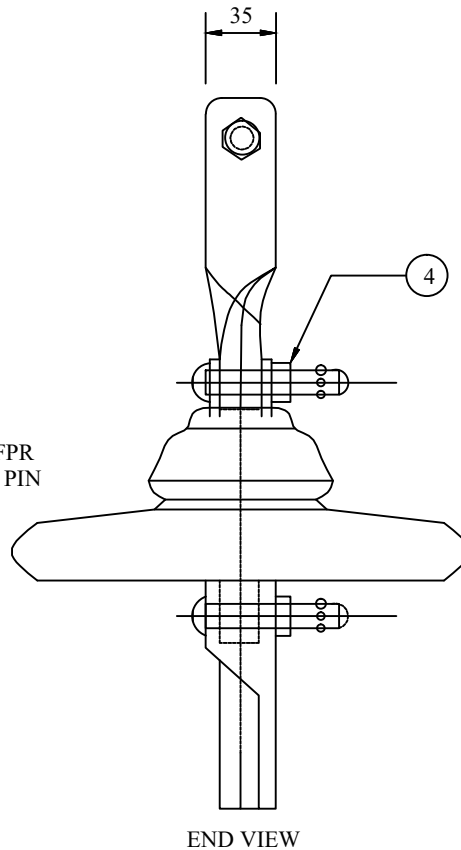
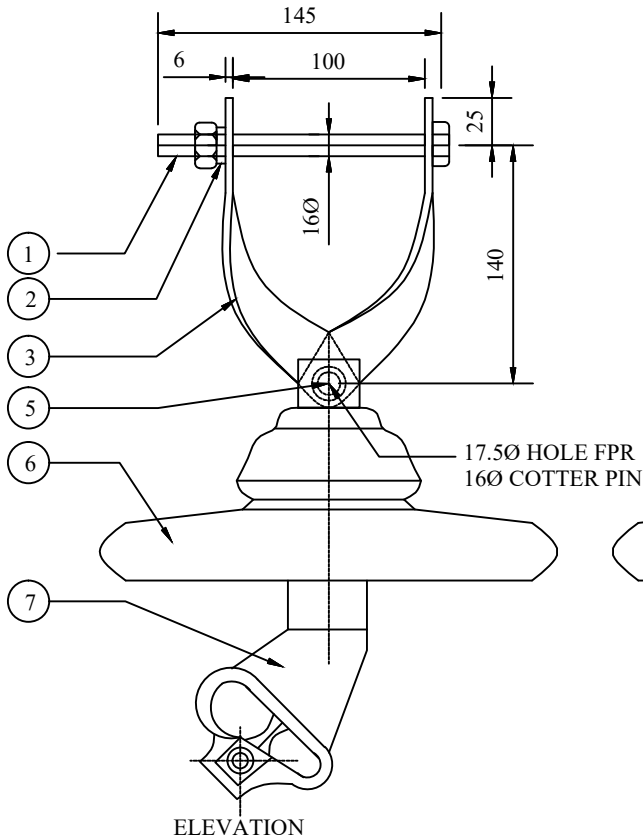
TITLE: GI PIN

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /11KV/15	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

PIN INSULATOR

TYPE S 165
IS:2488 (PART-II)



11 KV INSULATOR &
FITTINGS CLEVIS & TONGUE
TYPE STRAIN INSULATOR SET

ALL DIMENSION ARE IN mm.

TENDER DRAWING

TITLE : 11 KV INSULATOR &
FITTINGS CLEVIS & TONGUE
TYPE STRAIN INSULATOR SET
DRG. NO : NH / RE / INSULATOR /01

S.No.	BILL OF MATERIAL	QTY.
1	BOLT - NUT - 100X145	1
2	SPRING WASHER	1
3	CROSS - ARM STRAPS	2
4	WASHER	2
5	COTTER PIN	2
6	DISC INSULATOR	1
7	CLEVIS ENDED CLAMP WITH ALUMINUM LINER	1

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

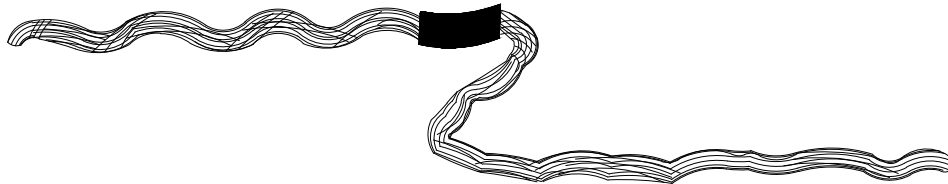
Revamped Distribution Sector Scheme (RDSS)

TITLE

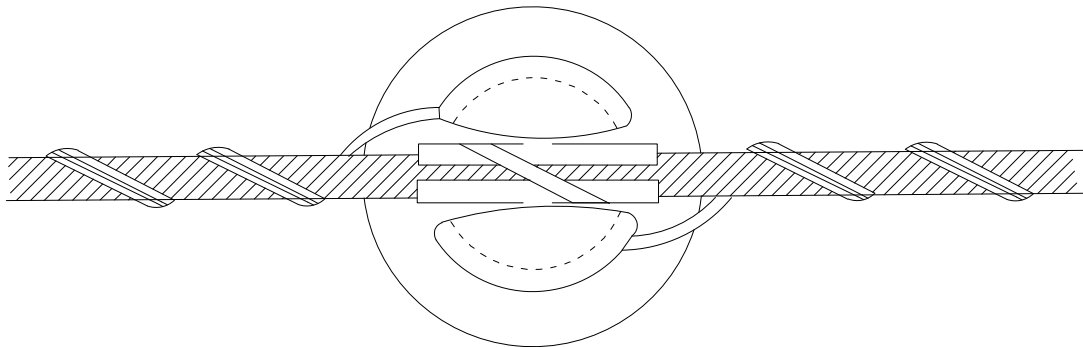
Clevis & Tongue Type Strain Insulator Set

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/16	1 OF 1	0



DISTRIBUTION TIE



DISTRIBUTION TIE IN POSITION ON 11KV PIN INSULATOR

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

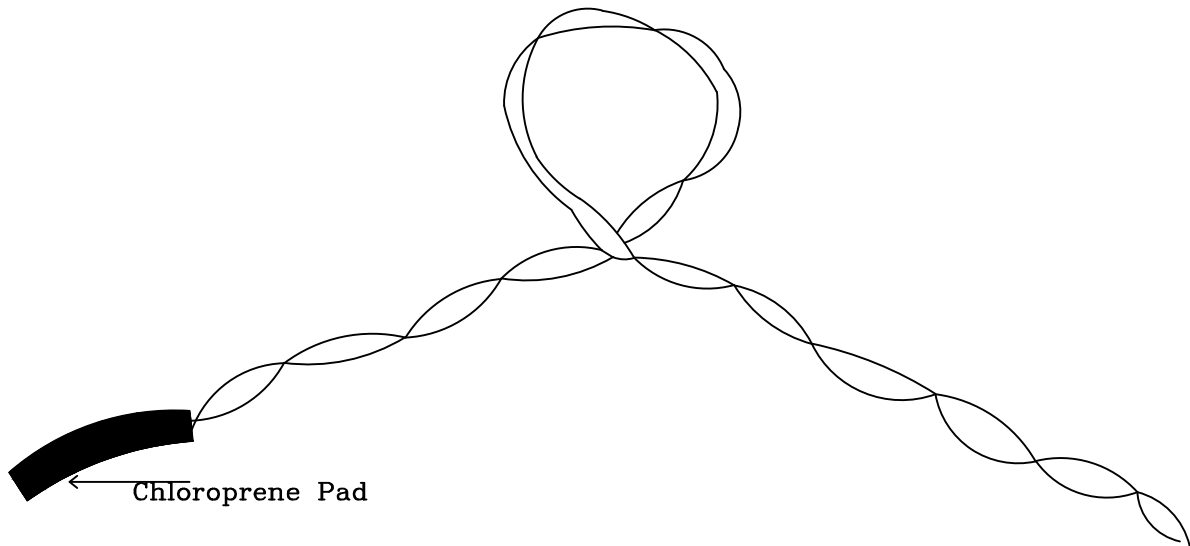
Revamped Distribution Sector Scheme (RDSS)

TITLE

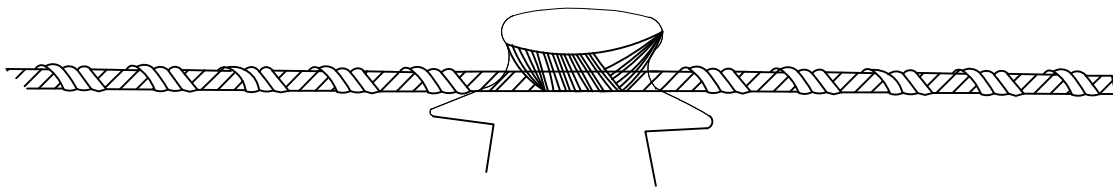
Holding of Conductor on 11 KV Pin Insulator
Straight Run (Using Helically Formed Fitting)

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/17	1 OF 1	0



Side Tie



Side Tie In Position On 11 KV Pin Insulator

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

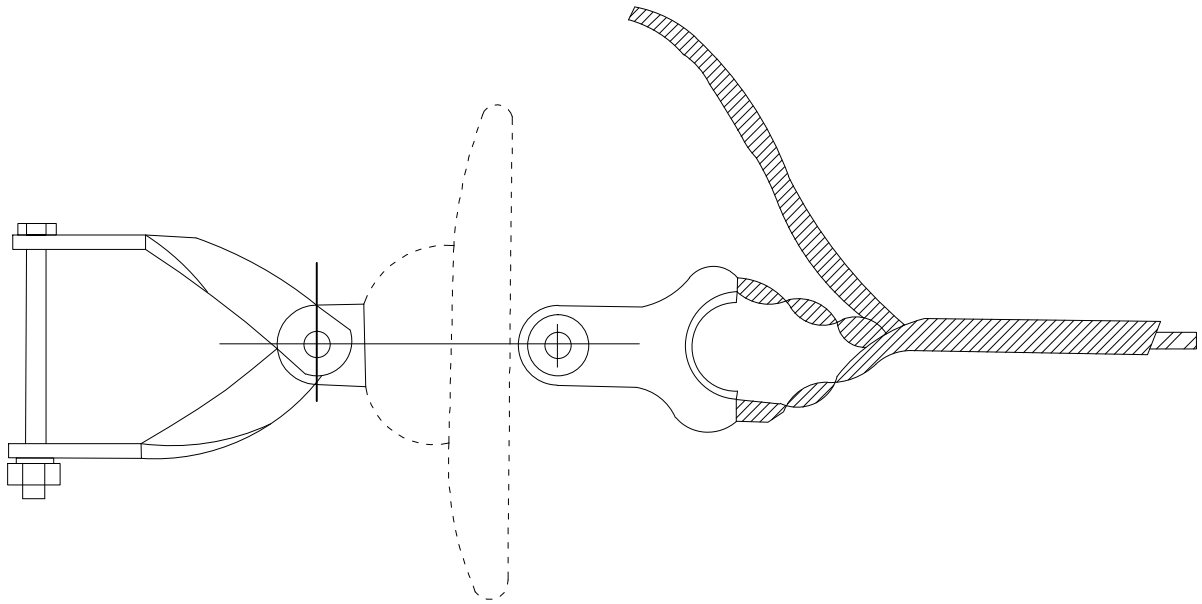
Revamped Distribution Sector Scheme (RDSS)

TITLE

Holding of Conductor on 11 KV Pin Insulator
Angle Location(Using Helically Formed Fitting)

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/18	1 OF 1	0



11kV CONDUCTOR DEAD-END FITTING IN POSITION

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

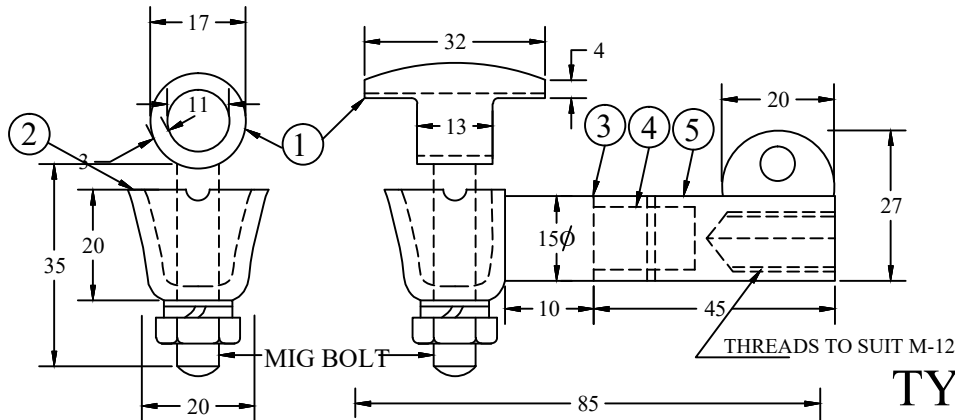
Revamped Distribution Sector Scheme (RDSS)

TITLE

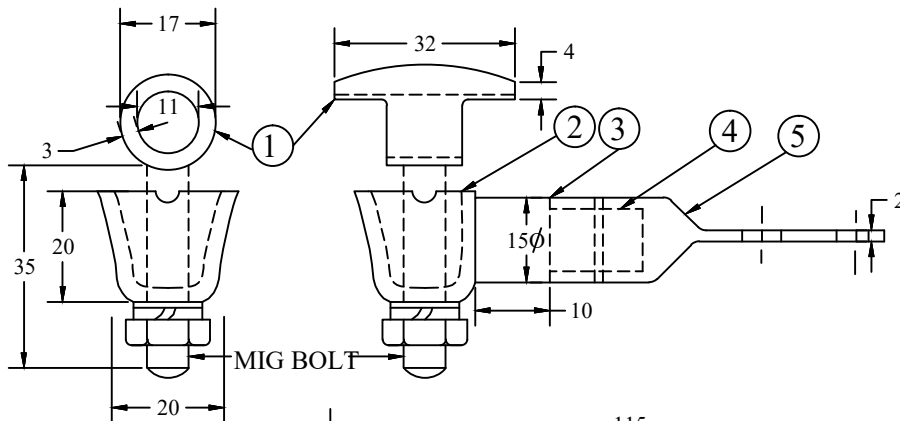
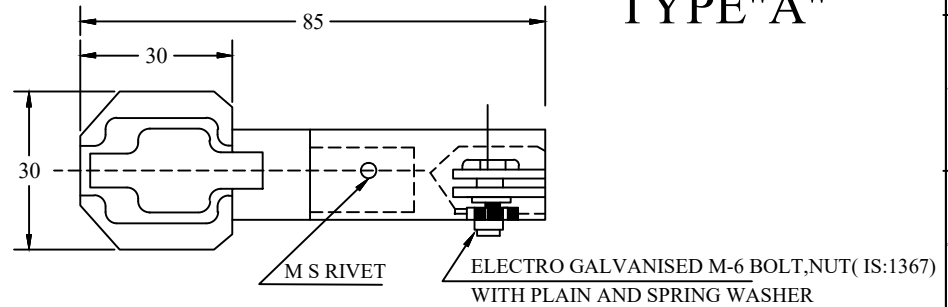
11KV Conductor Dead-End Arrangement
(Using Helically Formed Fitting)

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

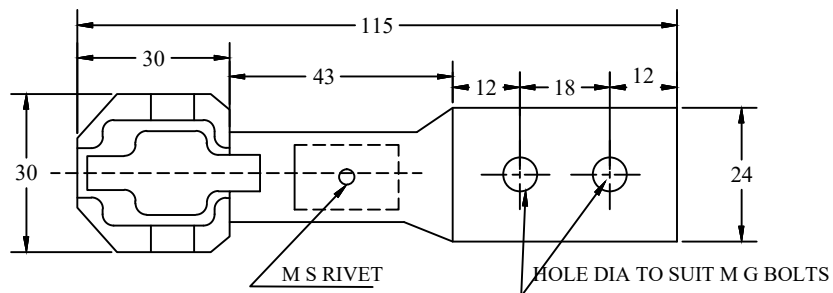
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/19	1 OF 1	0



TYPE "A"



TYPE "B"



NOTES:-

1. ALUMINIUM ALLOY 'A-11' CONNECTOR GRIP WITH ELECTRIC GALVANIZED M10 BOLT ,NUT WITH PLAIN AND SPRING WASHERS TO GRIP THE CONDUCTOR IN HORIZONTAL AND VERTICAL DIRECTIONS.
2. ALUMINIUM ALLOY 'A-11'(IS:617-1975)BODY.
3. EPOXY SEAL TO GUARD AGAINST ATMOSPHERIC EFFECTS.
4. HIGH PRESSURE FIT JOINT BETWEEN ALUMINIUM ALLOY AND BRONZE COMPONENTS OF THE CONNECTOR.
5. HIGH STRENGTH CORROSION RESISTANT BRONZE BODY.

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

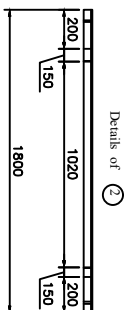
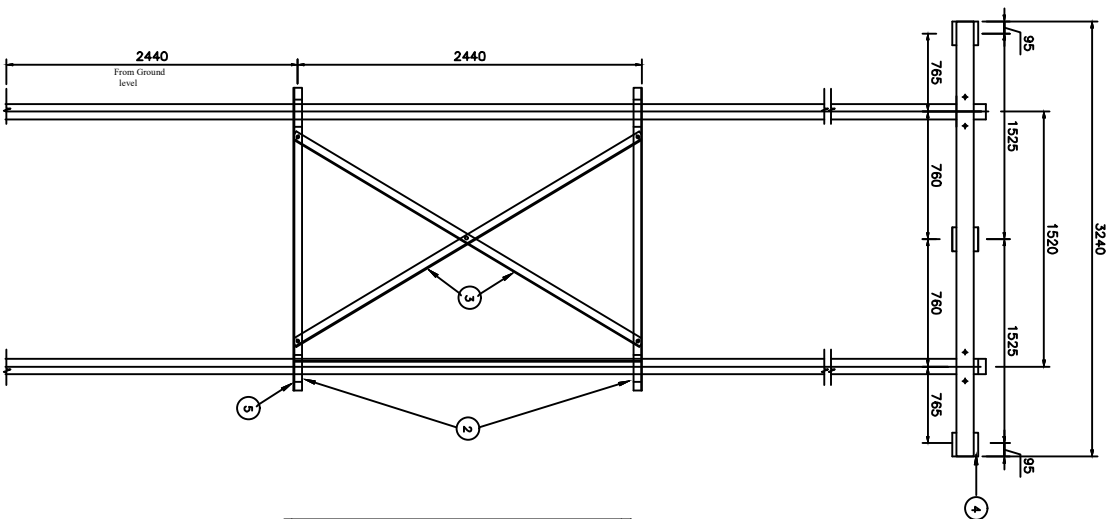
Revamped Distribution Sector Scheme (RDSS)

TITLE

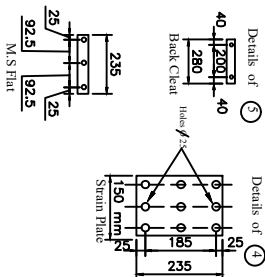
Bimetallic Connector (H. T.) for
11kV Distribution Transformer

R0	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/11KV/20	1 OF 1	0



Details of 3



1. FLANGE OF ANGLE SHOULD BE WRAPPED ON OTHER SIDE OF FLANGED AND THEN DRILLED.
2. ONE SIDE FLANGE SHOULD NOT BE CUT.

All dimensions are in mm.
All holes are 18mm dia.

BILL OF MATERIAL

Part No.	Description	Qty.
1.	M.S Channel 100 X50X6 = 3240 Long	2 Nos.
2.	M.S Angle 65X65X6 = 1800 Long	2 Nos.
3.	M.S Angle 80X50x6 = 2700 Long	2 Nos.
4.	Strain Plate	3 Nos.
5.	M.S Angle 65X65X6 = 280 Long	4 Nos.
6.	M.S Clamp 50x8	4 Nos.
7.	Nut Bolts	As reqd.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

General Arrangement of DC Cross-Arm and Bracing With Back Cleat for PSC/PCC Poles

SIZE/SCALE

DRG. NO.

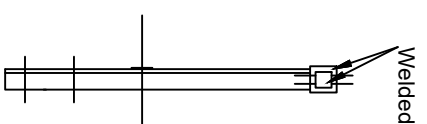
As MTS

REC/RDSS/11KV/21

SHT. NO. REV. NO.

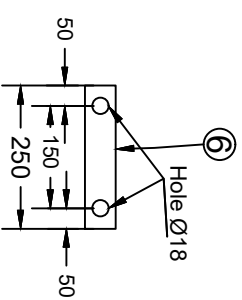
1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



ELEVATION

END VIEW



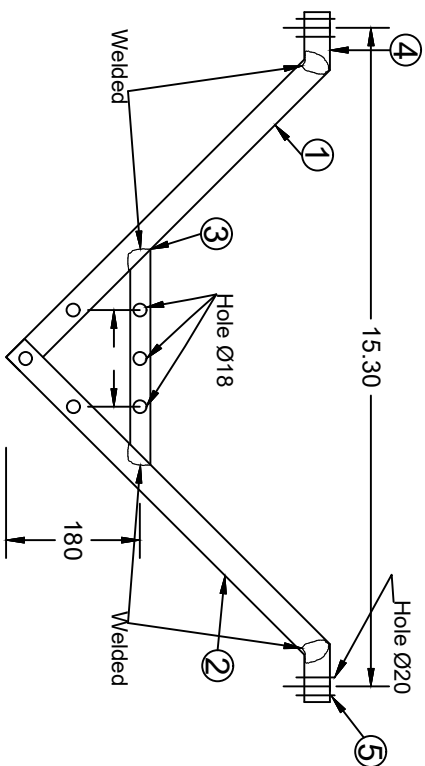
BACK CLEAT

Rural Electrification Corporation Ltd.

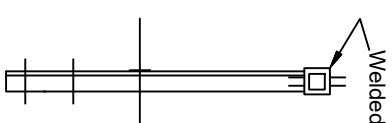
PROJECT:
Revamped Distribution Sector Scheme (RDSS)

11KV Bridling 'V' Cross-Arm

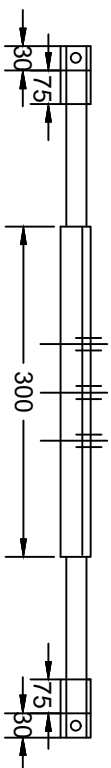
						SIZE	SCALE	DWG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS /11KV/22	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE						



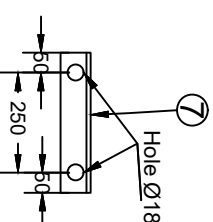
ELEVATION



END VIEW



PLAN



BACK CLEAT

FOR TENDER PURPOSE ONLY

11KV 'V' Cross-Arm



Rural Electrification Corporation Ltd.

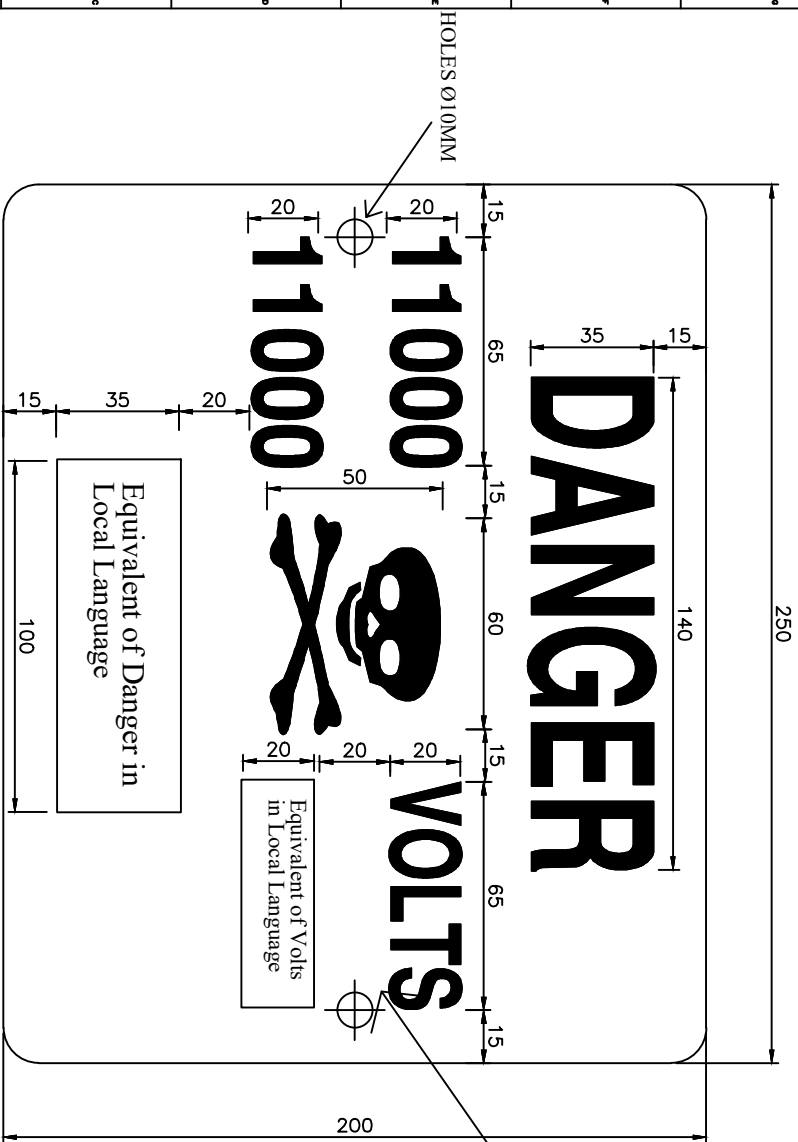
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11KV 'V' Cross-Arm

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS /11KV/23	1 OF 1	0	



HOLES Ø10MM

NOTES:-

- 1) THE PLATE SHALL BE MADE FROM M.S. SHEET OF ATLEAST 1.6mm THICKNESS & VITREOUS ENAMELED WHITE WITH LETTERS, FIGURES & THE CONVENTIONAL SKULL & BONES IN SIGNAL RED COLOUR ON THE FRONT SIDES (5-1978). THE REAR SIDE OF THE PLATE SHALL ALSO BE ENAMELED.
- 2) ALL LETTERING SHOULD BE CENTRALLY SPACED.
- 3) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 4) MANUFACTURING TOLERANCE AS FOLLOWS
 UP TO 50mm : $\pm 5\%$
 51 TO 100mm : $\pm 4\%$
 101 TO 300mm : $\pm 3\%$
 ABOVE 300mm : $\pm 2\%$

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

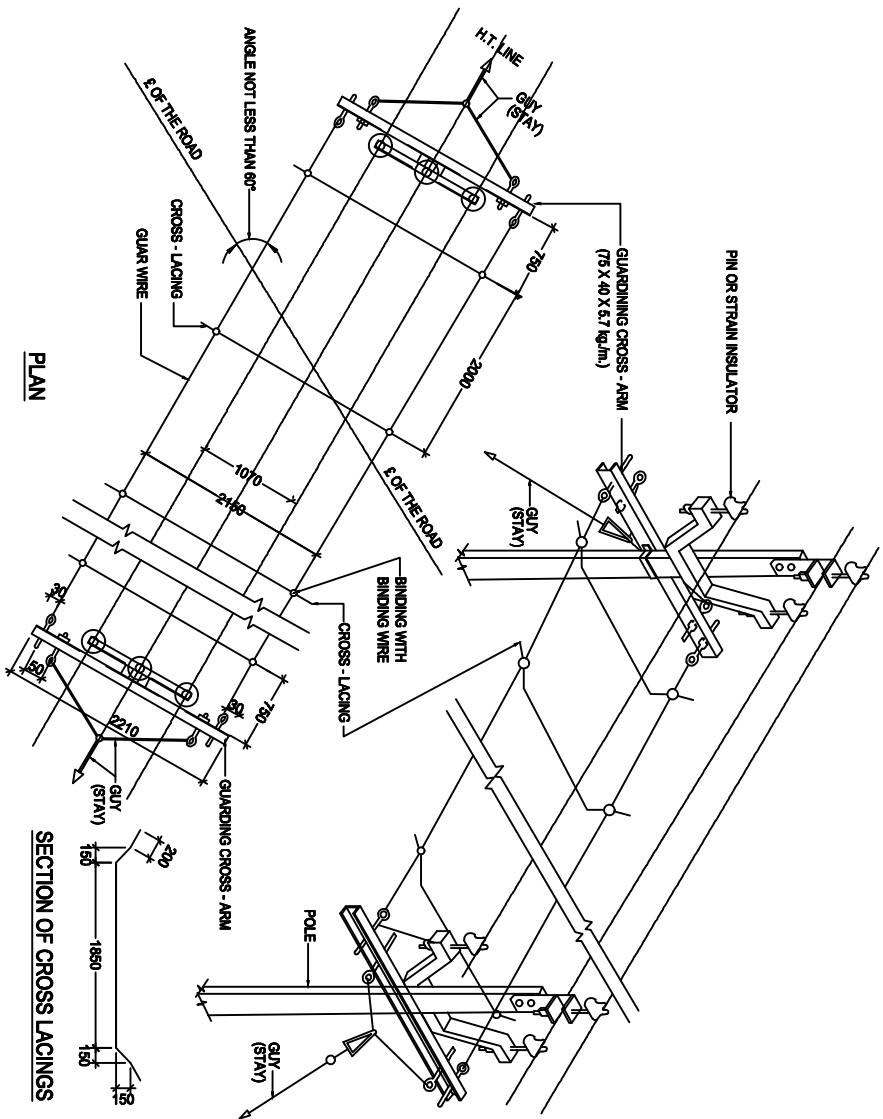
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

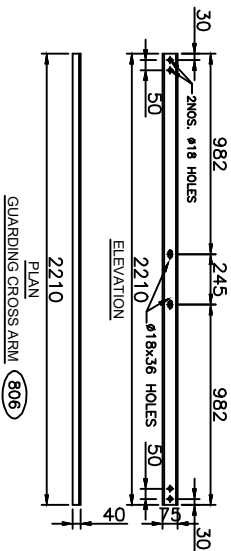
11 kV DANGER BOARD

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RD					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS	1 OF 1	0	

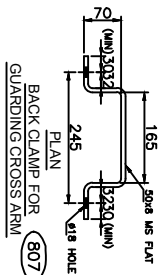


PLAN

SECTION OF CROSS LACINGS



PLAN



PLAN

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
FO					

ERE CODE	DESCRIPTION	QTY	REF. DRG. NO.
006	PIPE EXHAUSTING FOR POLES ON EITHER SIDE	2 SET	REC-XII Part-08N-006
008	Y - GUYS (STAY)	2 SET	REC-XII Part-08N-007
010	GUARD WIRES	AS REQD.	
806	GUARDING CROSS - ARM	2 NOS.	REC-XII Part-11N-011
807	BACK CLAMP FOR GUARDING CROSS ARM	2 NOS.	REC-XII Part-11N-011

ERE CODE	DESCRIPTION	SECTION MATERIAL	LENGTH MM	KG/mtr.	QTY.	TOTAL WT. KG.
806	GUARDING CROSS ARM	75x40	2210	6.7	2 NOS.	28.19
807	BACK CLAMP FOR GUARDING CROSS ARM	50x6	445	3.14	2 NOS.	2.80
ERE BOLT - 10MM		16	235	1.577	8 NOS.	2.88
					TOTAL	30.87

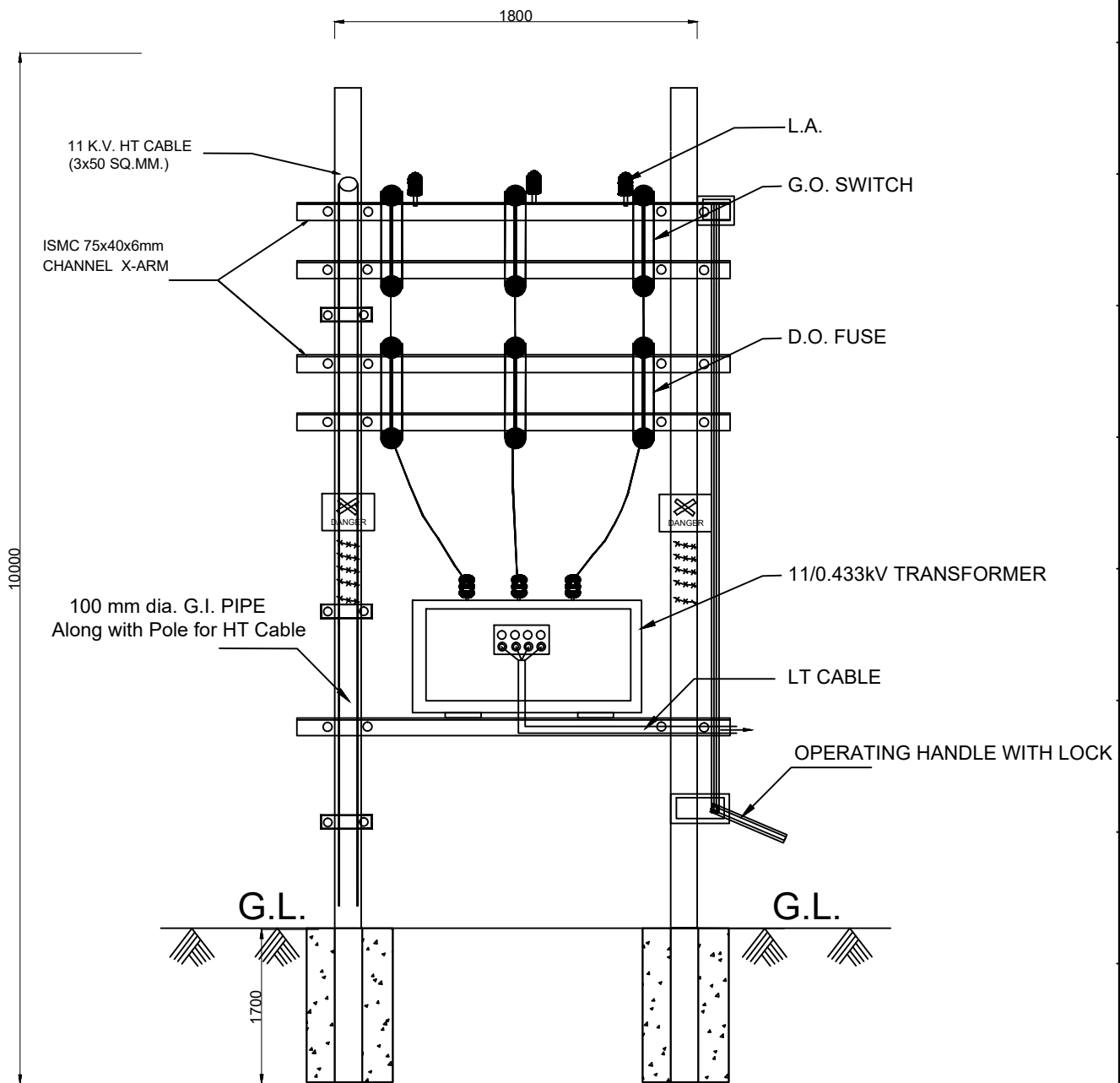
- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE
 - UPTO 50mm - $\pm 5\%$
 - 51 TO 100mm - $\pm 4\%$
 - 101 TO 300mm - $\pm 3\%$
 - ABOVE 300mm - $\pm 2\%$
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED
 - 5) AS PER IS:2629 & 4759
 - 6) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 7) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 8) NO. OF CROSS LACINGS TO SUIT THE REQUIREMENTS, CROSS LACINGS BE PROVIDED FOR THE WIDTH OF THE ROAD PLUS ONE EACH NEAR THE SUPPORT.
 - 9) FOR CROSS LACINGS, ACSR CONDUCTOR FROM SCRAP LENGTHS OR 3.15mm GI WIRE CAN BE USED.
 - 10) AS PER IE RULES, 88(3), THE GROUND WIRES SHOULD HAVE THE BREAKING STRENGTH NOT LESS THAN 635KG EITHER 4mm GI WIRE OF MINIMUM STRENGTH 55KG/mm LAD QUALITY OR 5mm GI WIRE OF MINIMUM STRENGTH 33KG/mm. SOFT QUALITY BE USED AS PER IS 280-1962.
 - 11) MINIMUM CLEARANCE FROM GROUND SHALL BE 6.1 METRES AS PER IE RULES.
 - 12) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS: SP6 PART-1.
 - 13) ALL CHANNELS SHALL BE ISLC CHANNELS

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE	SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
11kV LINE PROTECTIVE GUARDING ACROSS THE MINOR CROSSING LIKE VILLAGE ROAD ETC.	A3 NTS	RBC/ RDSS /11kV/25	1 OF 1	0



POLE MOUNTED SUB-STATION

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

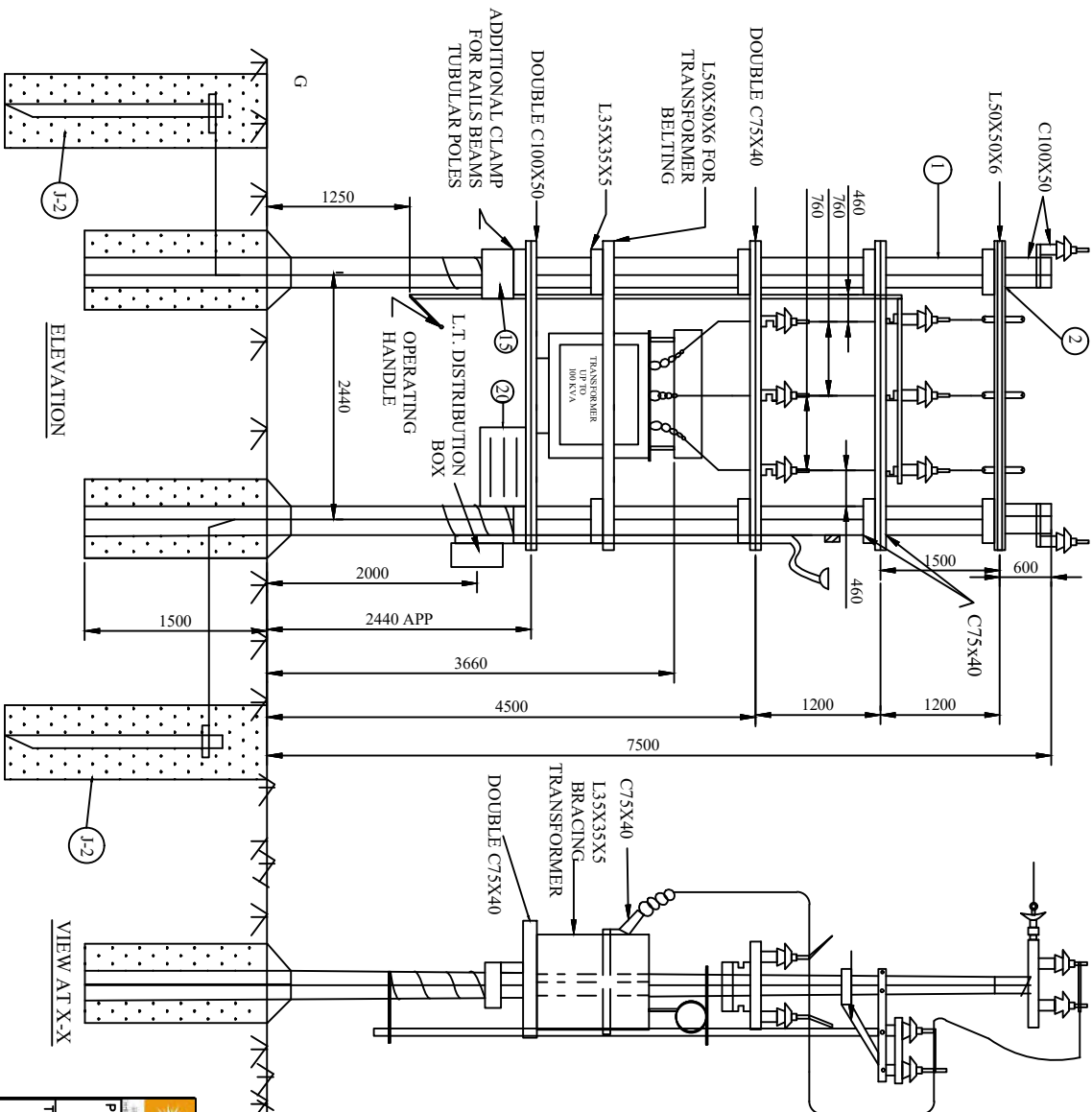
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

11KV/433-250V Distribution Sub-Station with Drop out Fuses

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR-SS/02	1 OF 1	0



BILL OF MATERIAL

S.No		
1	SUPPORT - 9m	2
2	CHANNEL 100X50 - 2800 (APP.)	2
3	CHANNEL 75X40 - 1500 (APP.)	2
4	CHANNEL 75X40 - 2800 (APP.)	4
5	ANGLE 50X50X6 - 2800 (APP.)	3
6	ANGLE 35X35X5 - BRACING FOR SUPPORTING	2
7	A - B SWITCH - 1000 (APP.)	2
8	ANGLE 35X35X5 - FOR TRANSFORMER BELTING	2
9	ANGLE 75X40 - X. ARM FOR SUPPORTING	4
10	A - B SWITCH - 1000 (APP.)	1
11	DISTRIBUTION TRANSFORMER	1 SET
12	AIR BREAK SWITCH (HORIZONTAL TYPE)	1 SET
13	H. G. FUSE UNIT - 3 PHASE	1 SET
14	11 KV LIGHTING ARRESTS	3
15	DISTRIBUTION BOX	1
16	BASE PLATE (REFER K-1)	2
17	DANGER BOARD	1
18	CLAMPS, NUTS, BOLTS, BARBED WIRE ETC	AS REQD
19	L. T. CABLE	AS REQD
20	PIPE/ROD EAR THING (REFER J-2)	AS REQD
21	EAR THING SET	AS REQD
22	BOARD	1

11 KV/433-250 V
DISTRIBUTION SUB-STATION (16/25 KVA)
(FOR ON LINE LINE LOCATIONS - ACROSS LINE)

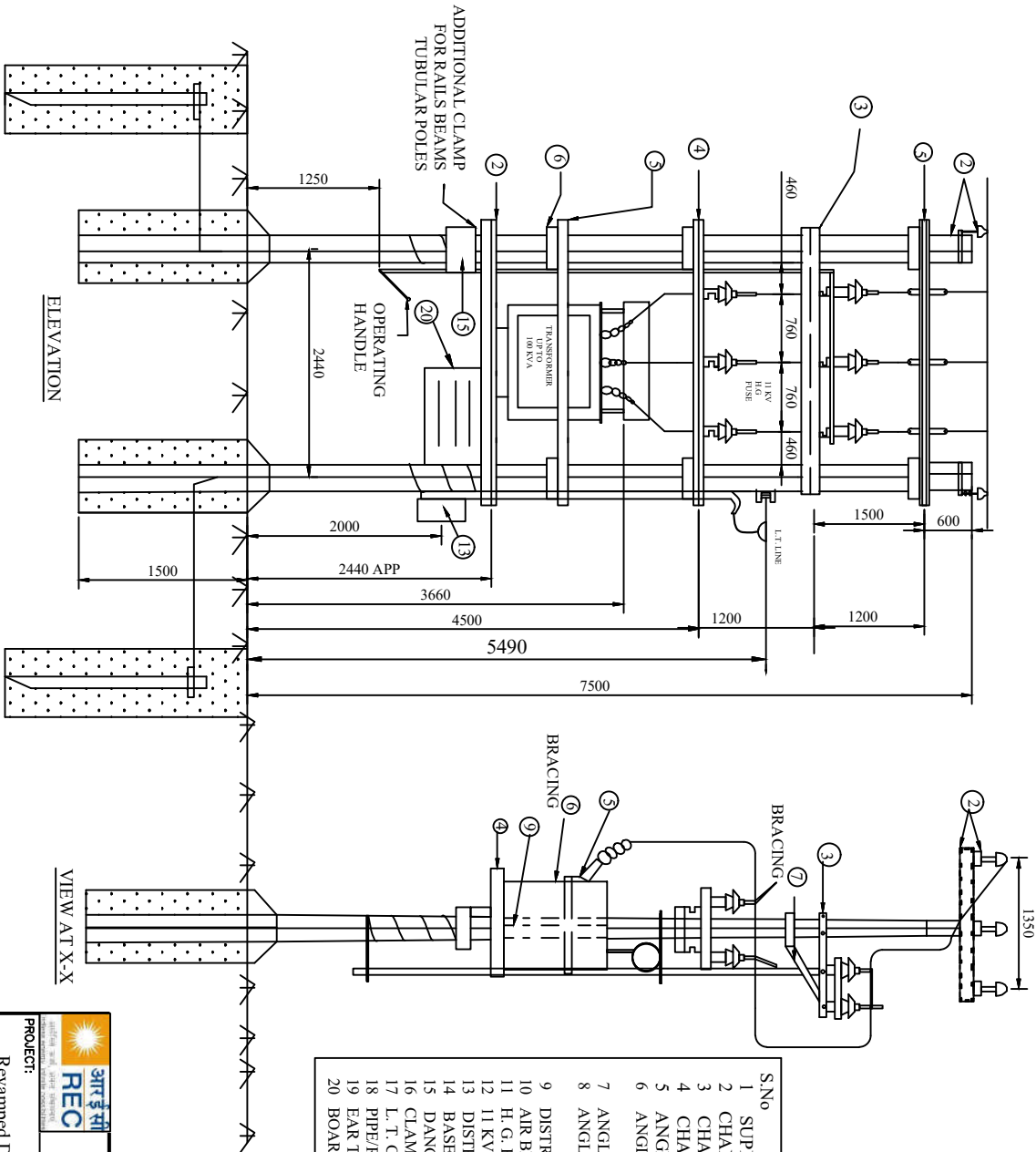
FOR TENDER PURPOSE ONLY



PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV/433-250V Distribution Sub-Station with AB Switch & Horn Gap Fuses

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					
SIZE	A3	SCALE	NTS	DWG. NO.	REC/RDSS /DTR-SS/03
SHT. NO.	1 OF 1	REV. NO.	0		



BILL OF MATERIAL

S.No		
1	SUPPORT - 9m	2
2	CHANNEL 100X50 - 2800 (APP.)	2
3	CHANNEL 75X40 - 1500 (APP.)	2
4	CHANNEL 75X40 - 2800 (APP.)	4
5	ANGLE 50X50X6 - 2800 (APP.)	3
6	ANGLE 35X35X5 - BREACHING FOR SUPPORTING	2
7	ANGLE 35X35X5 - 1000 (APP.)	2
8	ANGLE 75X40 - X. ARM FOR SUPPORTING	2
9	DISTRIBUTION TRANSFORMER	4
10	AIR BREAK SWITCH (HORIZONTAL TYPE)	1 SET
11	H. G. FUSE UNIT - 3 PHASE	1 SET
12	11 KV LIGHTING ARRESTS	3
13	DISTRIBUTION BOX	1
14	BASE PLATE (REFER K-1)	2
15	DANGER BOARD	1
16	CLAMPS, NUTS, BOLTS, BARBED WIRE ETC	AS REQD
17	L. T. CABLE	AS REQD
18	PIPE/ROD EARTHING (REFER J-2)	AS REQD
19	EARTH SET	AS REQD
20	BOARD	1

FOR TENDER PURPOSE ONLY

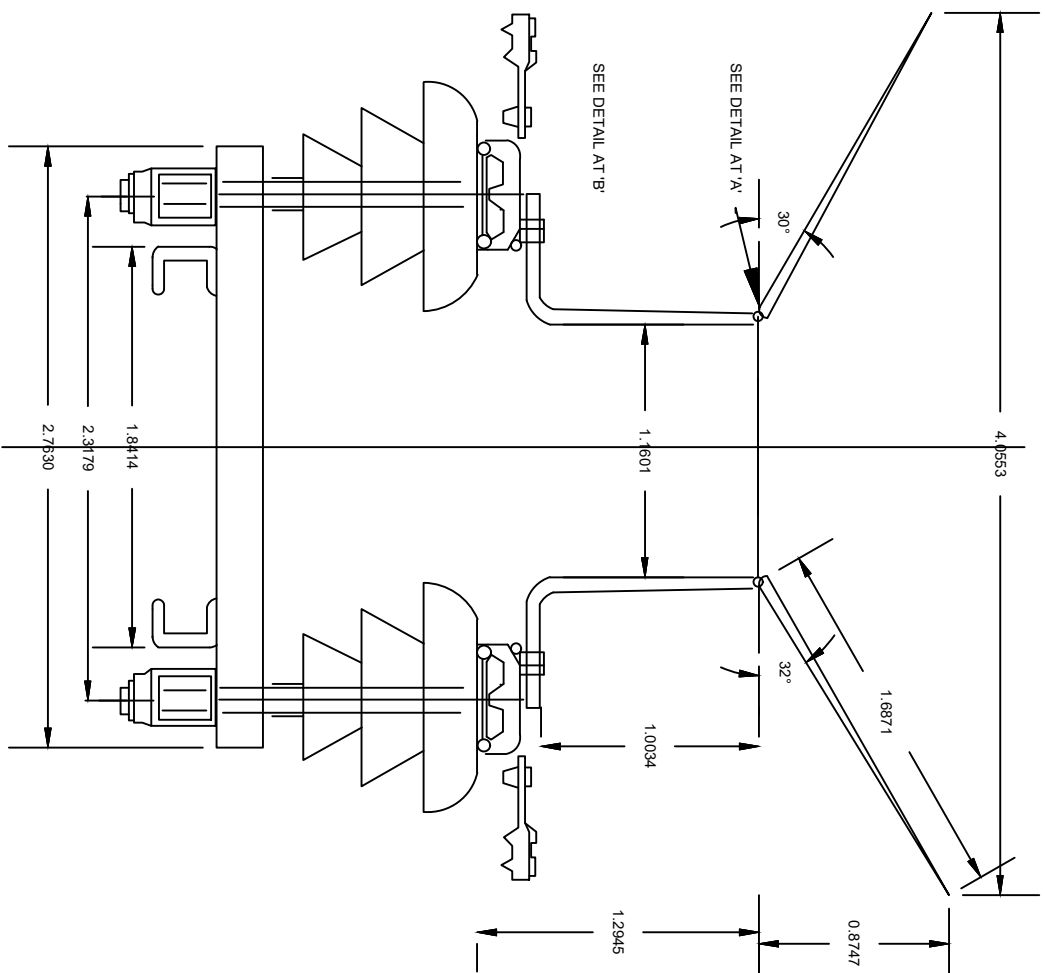


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV/433-250V Distribution Sub Station
For On Line Locations-Along Line

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					
SIZE	A3	SCALE	NTS	DRG. NO.	REC/ RDSS /DTR-SS/04
SHT. NO.	1 OF 1	REV. NO.	0		



FOR TENDER PURPOSE ONLY

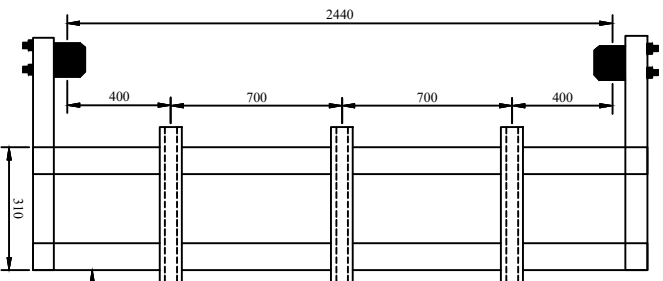


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

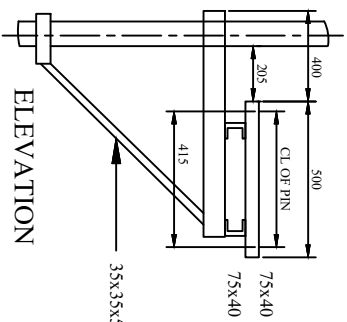
TITLE: 11KV Horn Gap Fuses

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					
REV. NO.					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/ RDSS /DTR-SS/05	1 OF 1	0	

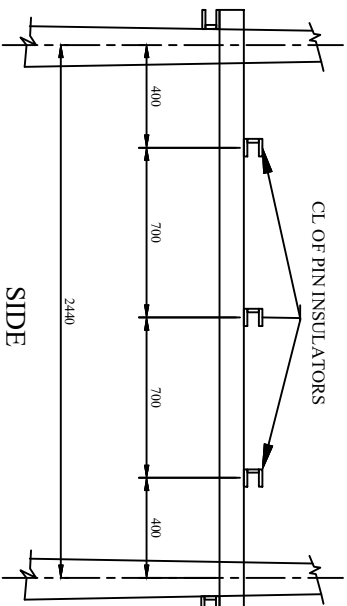


PLAN

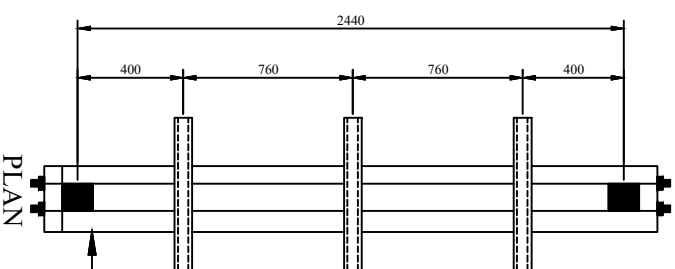
REFER REC CONSTRUCTION
STANDARD F-2



ELEVATION

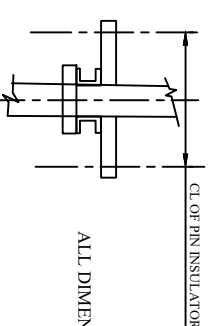


SIDE



PLAN

REFER REC CONSTRUCTION
STANDARD F-4



ELEVATION

ALL DIMENSION ARE IN MM

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

11KV Horn Gap Fuses Mounting Details

SIZE

SCALE

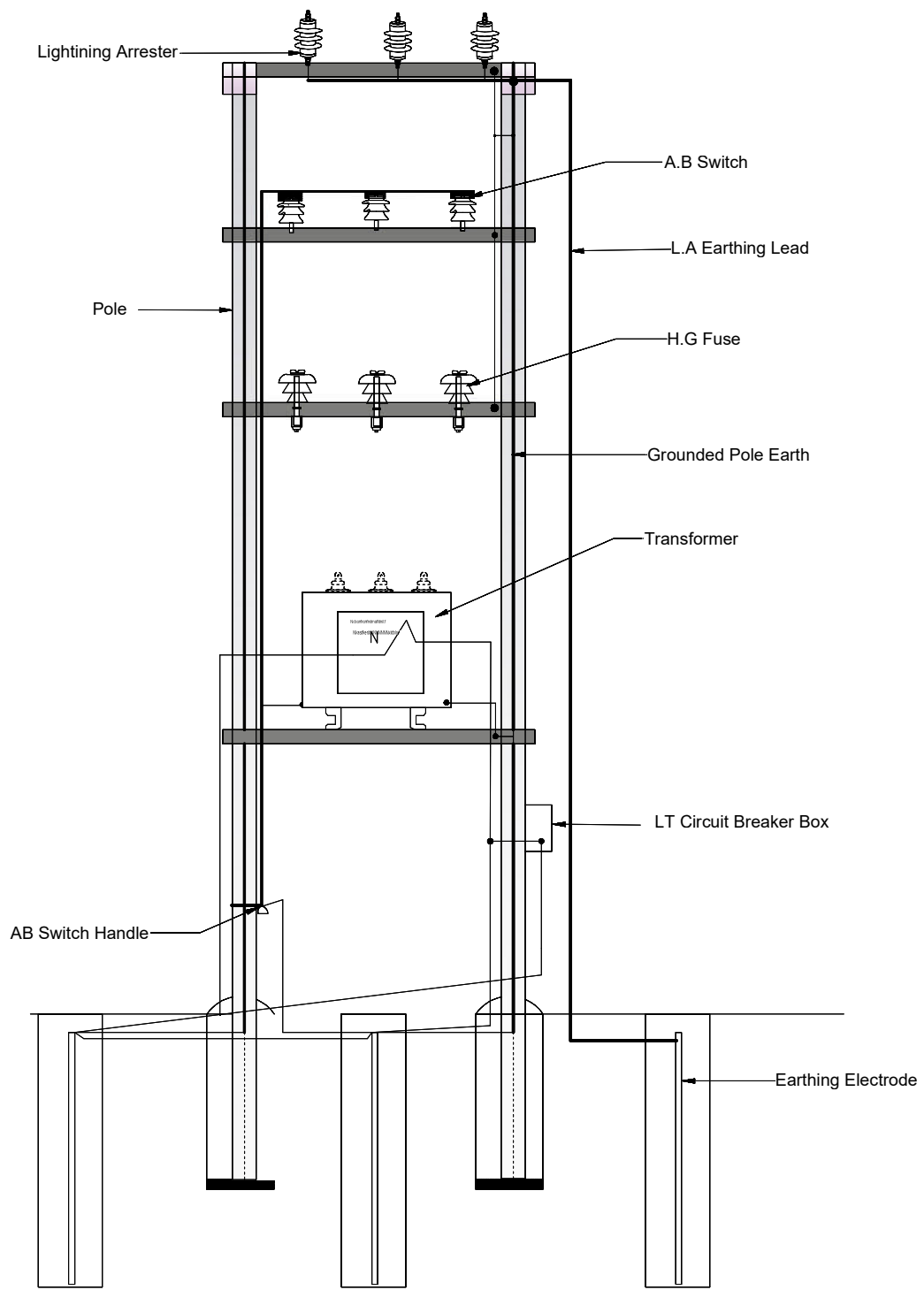
DRG. NO.

SHT. NO.

REV. NO.

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					

A3	NTS	REC/ RDSS /DTR-SS/06	1 OF 1	0
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FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

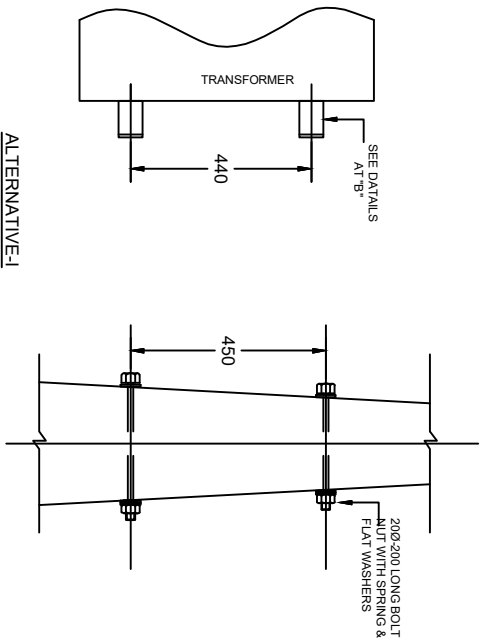
Revamped Distribution Sector Scheme (RDSS)

TITLE

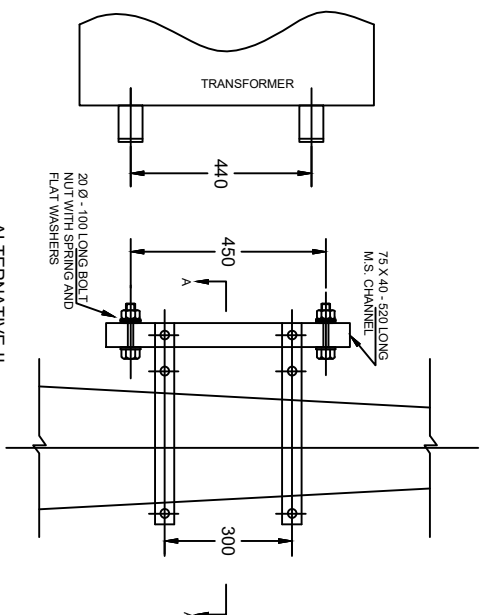
Earthing Arrangement For Distribution Sub-Station

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

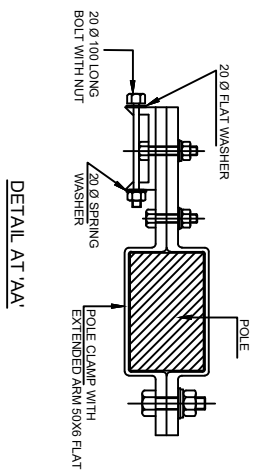
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /DTR-SS/07	1 OF 1	0



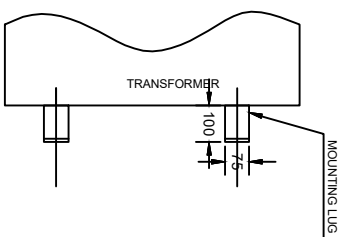
ALTERNATIVE-I



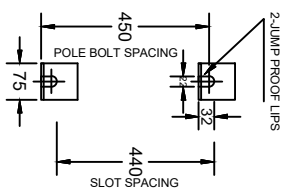
ALTERNATIVE-II



DETAIL AT 'AA'



DETAIL AT "B"



ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

NOTE:-
1. ALTERNATIVE-I WILL BE USED WHEN SUITABLE HOLES ARE AVAILABLE IN THE FOR THROUGH BOLTS.
2. ALTERNATIVE-I WILL BE USED WITH POLE CLAMPS.



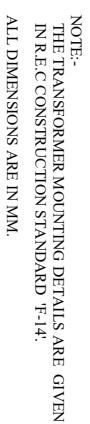
रural electrification corporation ltd.

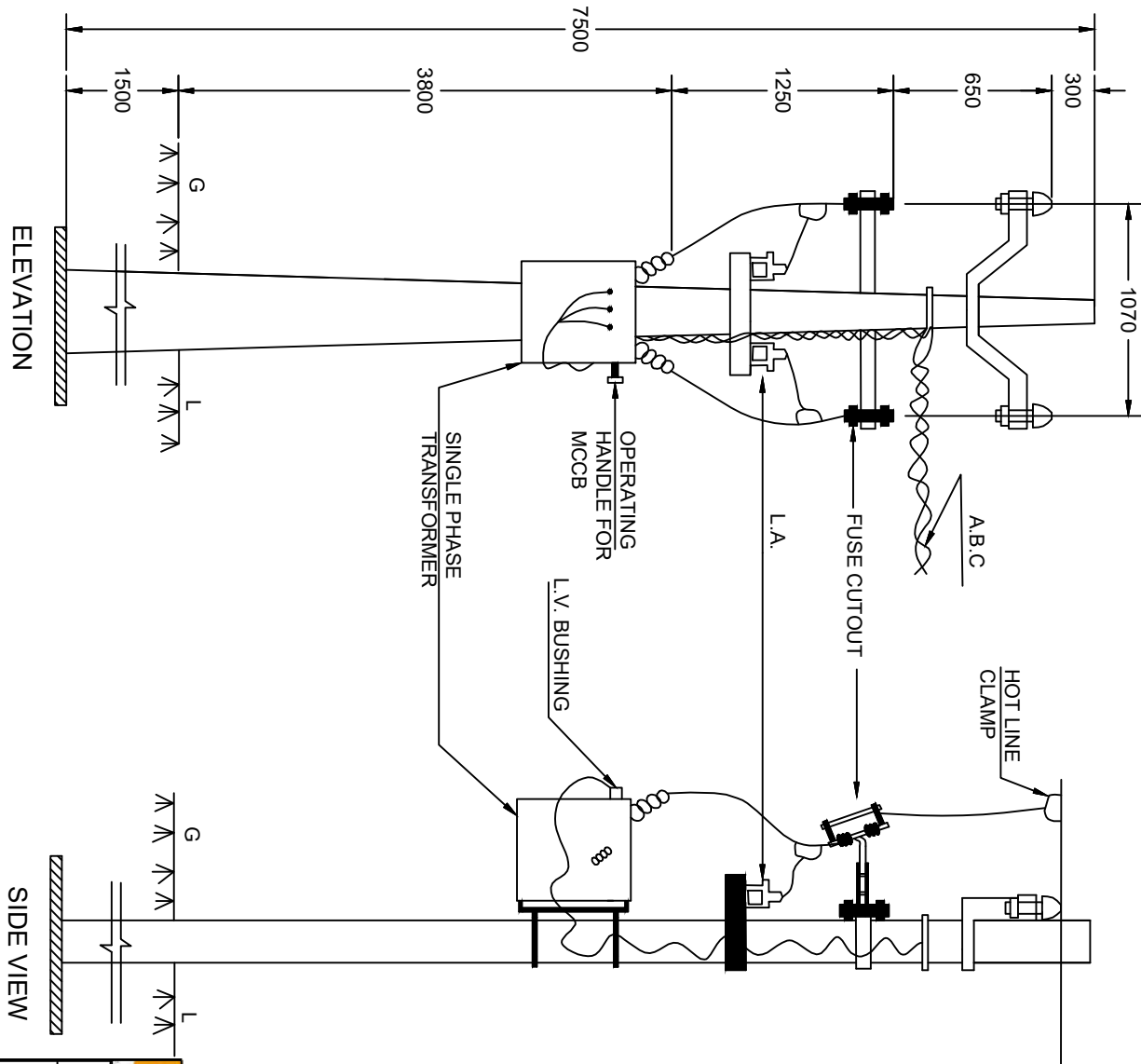
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Single Phase Transformer Mounting Details

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/DTR-SS/08	1 OF 1	0





BILL OF MATERIAL

P.C.C POLE 7.5 M	1No.
V-CROSS ARM 75X40	1No.
HORIZONTAL CROSS ARM D-5X40X1150	1No.
11 KV PIN INSULATOR WITH PINS	2No.
11 KV N G FUSOR FUSE CUT-OUT	2No.
11 KV L.A	2No.
11 KV SINGLE PHASE TRANSFORMER	1No.
M.S. 40X50X6-600 FOR L.S.S FITTING	1No.
BASE PLATE	1No.
EARTHING MATERIAL,NUTS,BOLTS,CLAMPS	AS REQD.
HOT LINE CLAMPS	2NOS.
ABC	AS REQD.

NOTE:-

1. TRANSFORMER MOUNTING DETAILS ARE AS PER REC CONSTRUCTION STANDARD F-14
2. AS AN ALTERNATIVE ARRANGEMENT TO ABC L.T LINE SHOWN IN THE DRAWING,CABLE CONNECTION CAN BE USED TO THE FIRST POLE OF CONVENTIONAL L.T LINE

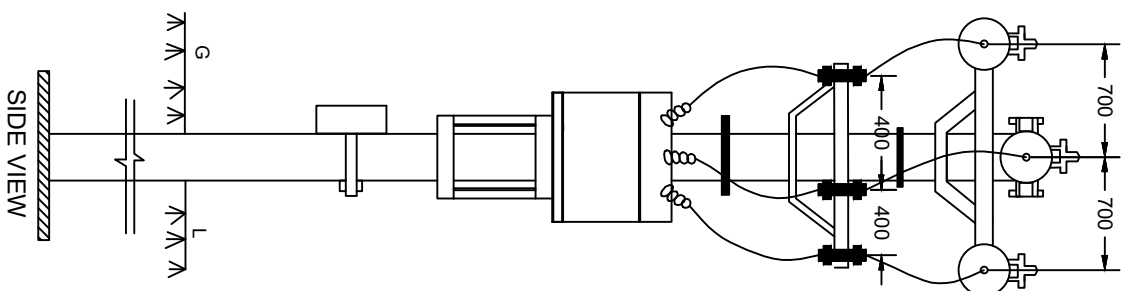
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Single Phase (Phase to Phase) Distribution Sub-Station Arrangement

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/DTR-SS/10	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



SUPPORTS(8 M/200 KG)
HORIZONTAL CROSS ARM
□ 100X50X6-150
□ 100X50X6-150
L.A WITH FITTINGS
D.O FUSE WITH FITTINGS
25 KVA TRANSFORMER
L.T.M.C.B
DISC INSULATOR WITH FITTINGS
STRUCTURE FOR TRANSMOUNTING:-
□ 100X50X6-1000
□ 50X50X6-600
EARTHING MATERIAL
GUY SET
BASE PLATE
NUTS, BOLTS,POLE TOP CLAMPS
STRUCTURE FOR D.O FUSE MOUNTING:-
□ 100X50X6-600
□ 50X50X6-400

FOR TENDER PURPOSE ONLY



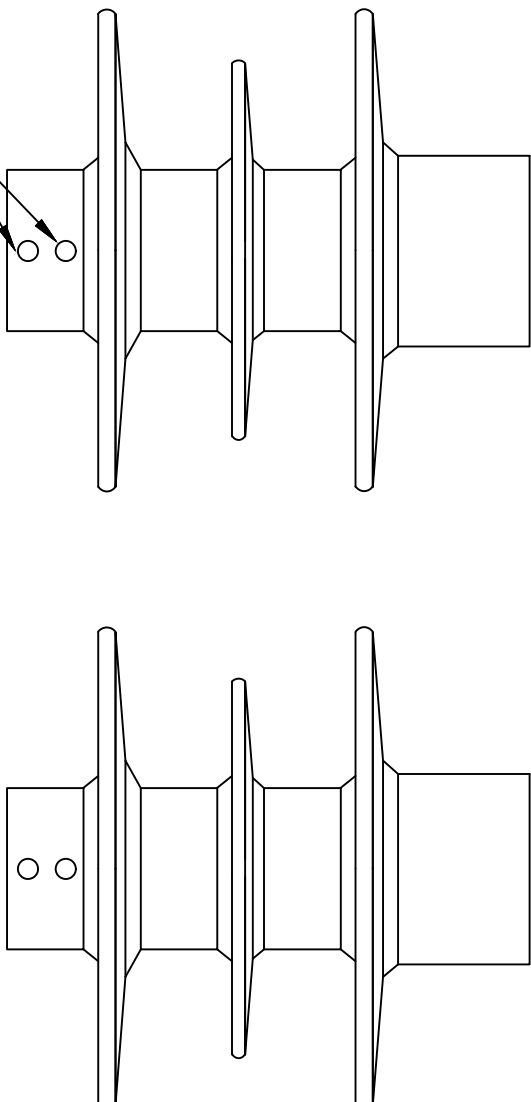
TITLE
Distribution Sub-Station Mounting
Arrangement on Single Pole

				SIZE	SCALE	DRG. NO.	SHEET NO.	REV. NO.
R0				A3	NTS	REC/RDSS/DTR-SS/11	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT			



TITLE
DRAWING FOR FIXING ARRANGEMENT OF METER

					SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0								
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT			
					A3	REC/RDSS/DTR-SS/12	1 OF 1	0
					NTS			

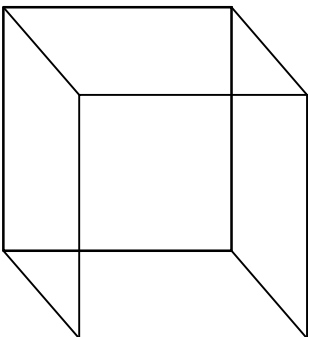


LOT No DATE
CLOCKS

NOTES:-

All markings are obtained during moulding itself.
-Markings:-Raychem, Type, Ur (Rating), Us (cov),
In (Non discharge current), Isc(short circuit capability)
,Mfg month & year

Meter Board



All dimensions are in mm.

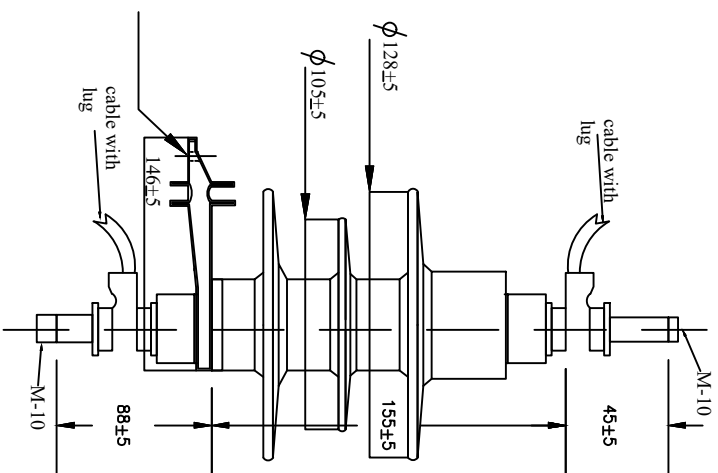
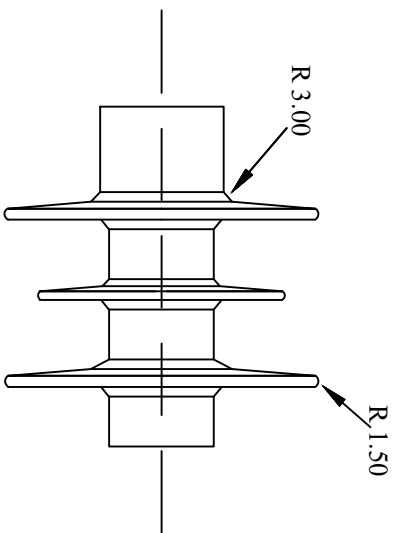
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE Lay Out Drawing of Lighting Arrestor (1)

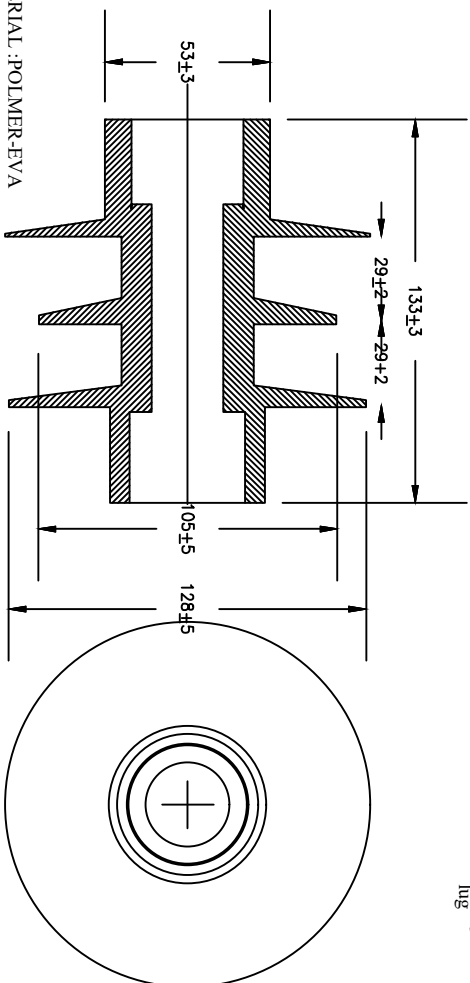
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/DTR-SS/13A	1 OF 1	0		



NOTES:-
 Nominal COV Uc = 8kV
 Nominal rating Uc = 10 kV
 Nominal discharge current -5kA
 Nominal creepage distance = 330mm
 Nominal dry arcing distance=163mm

MV SURGE ARRESTER
 TYPE:ND A WITH DISCONNECTOR

FOR TENDER PURPOSE ONLY




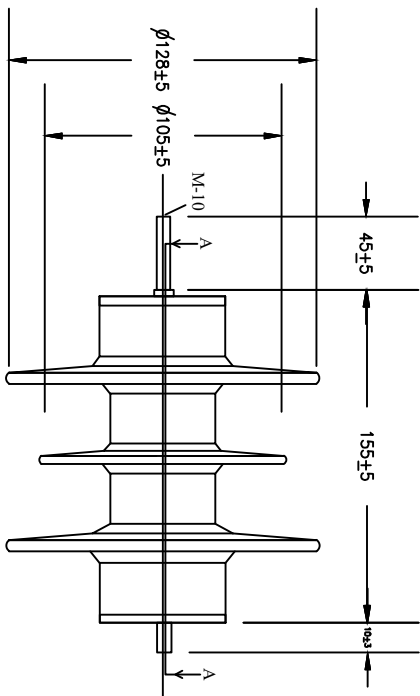
MATERIAL :POLYMER-EVA

MV SURGE ARRESTER
 TYPE:ND A
 HOUSING DETAILS

All dimensions are in mm.

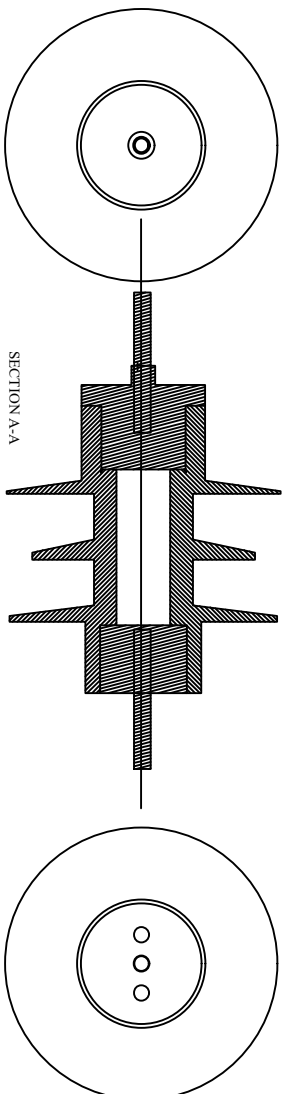
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

		Rural Electrification Corporation Ltd.	
PROJECT:		Revamped Distribution Sector Scheme (RDSS)	
TITLE		Lay Out Drawing of Lighting Arrestor (2)	
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR-SS/13B	1 OF 1	0



NOTES:-
Nominal COV $U_c = 8\text{ kV}$
Nominal rating $U_c = 10\text{ kV}$
Nominal discharge current -5 kA
Nominal creepage distance $= 330\text{ mm}$
Nominal dry arcing distance $= 163\text{ mm}$

MV SURGE ARRESTER
TYPE: NDA
SECTIONAL VIEW



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

Lay Out Drawing of Lighting Arrestor (3)

SIZE SCALE

DRG. NO.

SHT. NO. REV. NO.

As MTS

REC/RDSS/DTR-SS/13C

1 OF 1

0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

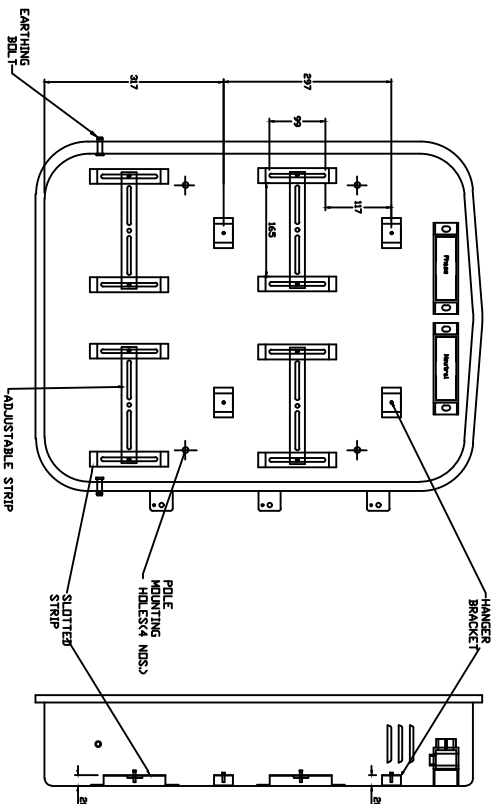
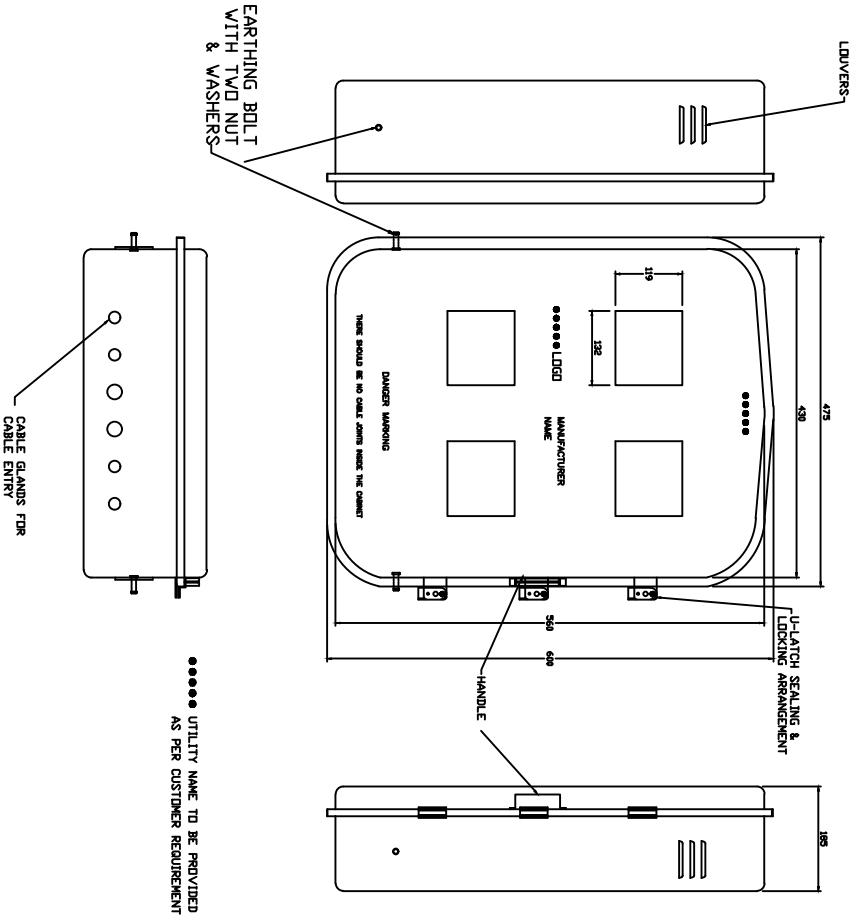
Revamped Distribution Sector Scheme (RDSS)

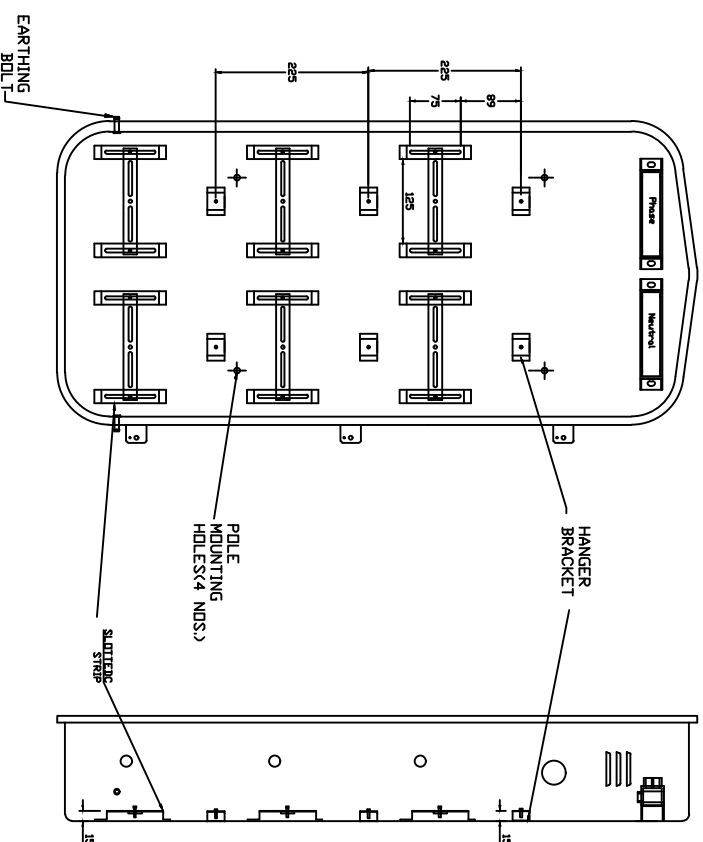
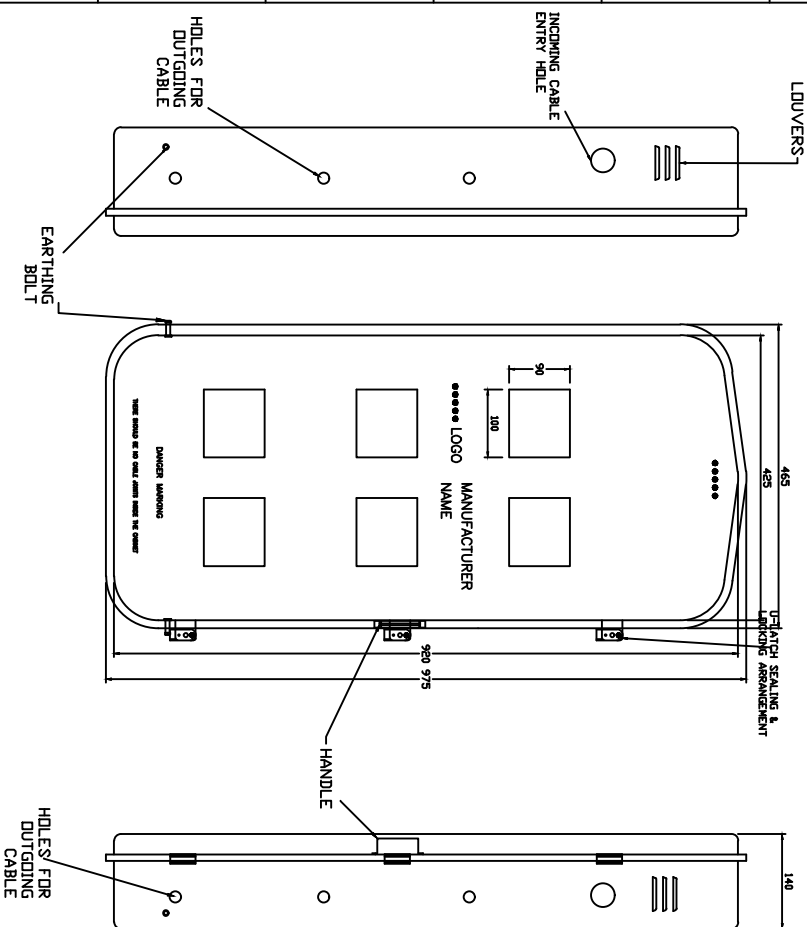
TITLE

4-IN-1 MMB FOR SINGLE PHASE METER WITH MOC
(MULTIPLE OUTGOING CONNECTOR BOX)

All dimensions are in mm.

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/DTR SS/14	1 OF 1	0		





FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

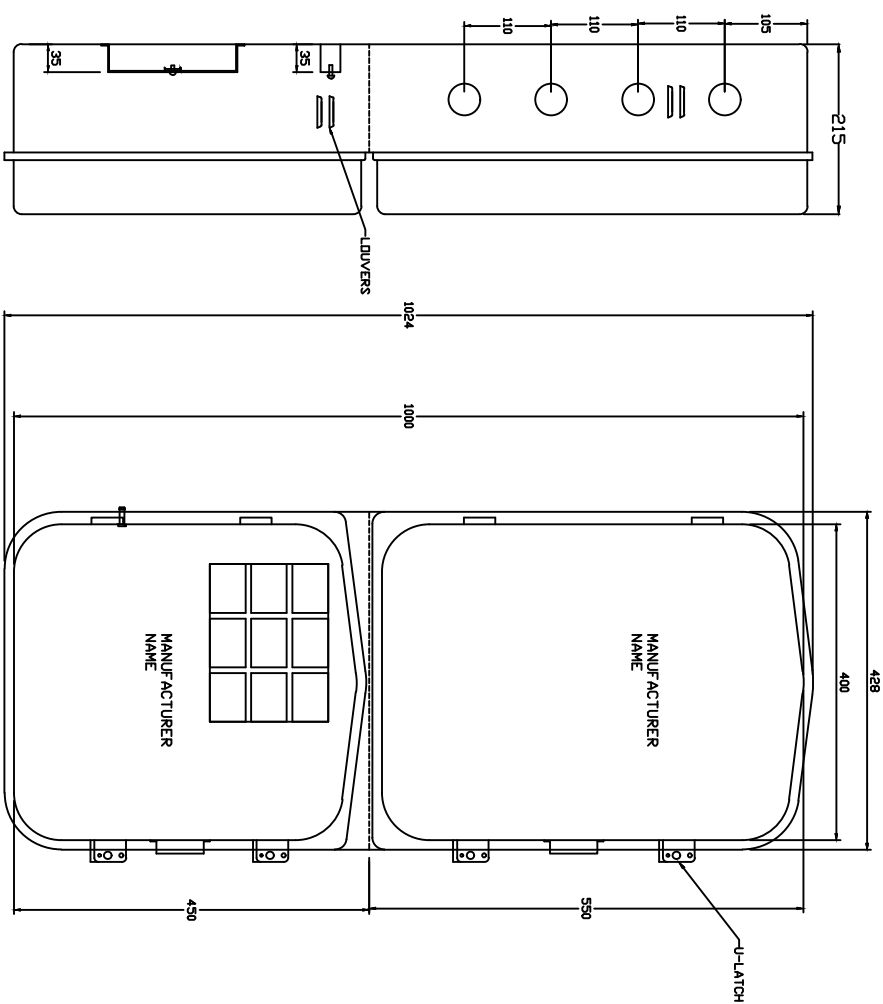
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 6-IN-1 MMB FOR SINGLE PHASE METER WITH MOC (MULTIPLE OUTGOING CONNECTOR BOX)

All dimensions are in mm.

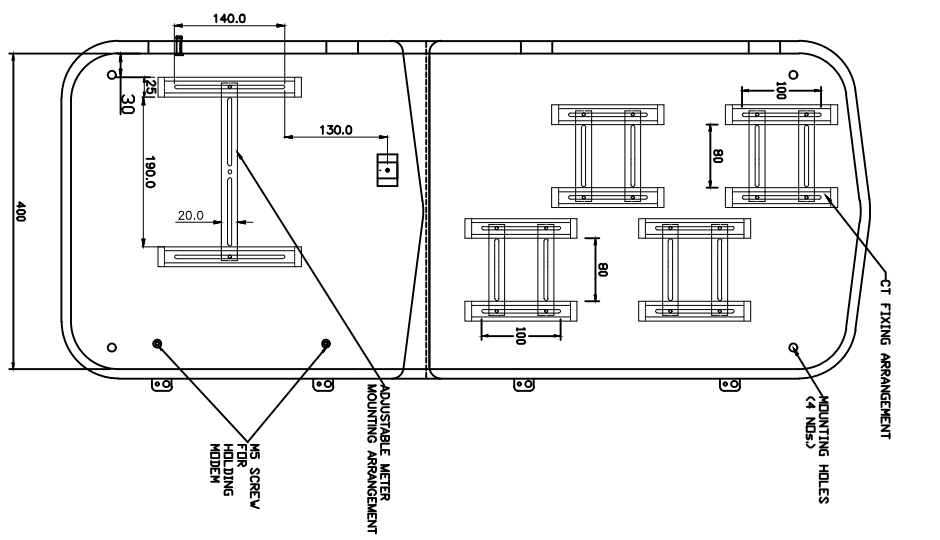
UTILITY NAME TO BE PROVIDED AS PER CUSTOMER REQUIREMENT

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/DTR SS/15	1 OF 1	0



SIDE VIEW

FRONT VIEW
WITH COVER



FRONT VIEW
WITHOUT COVER

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/16	1 OF 1	0

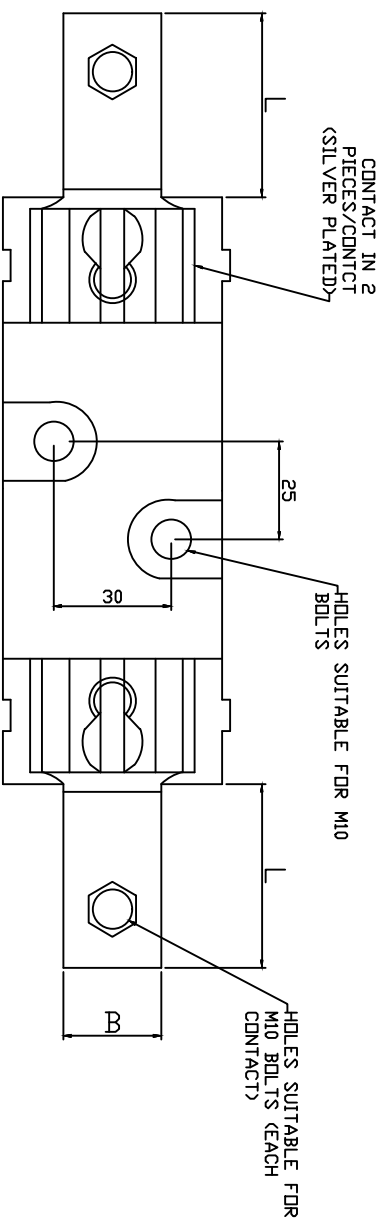
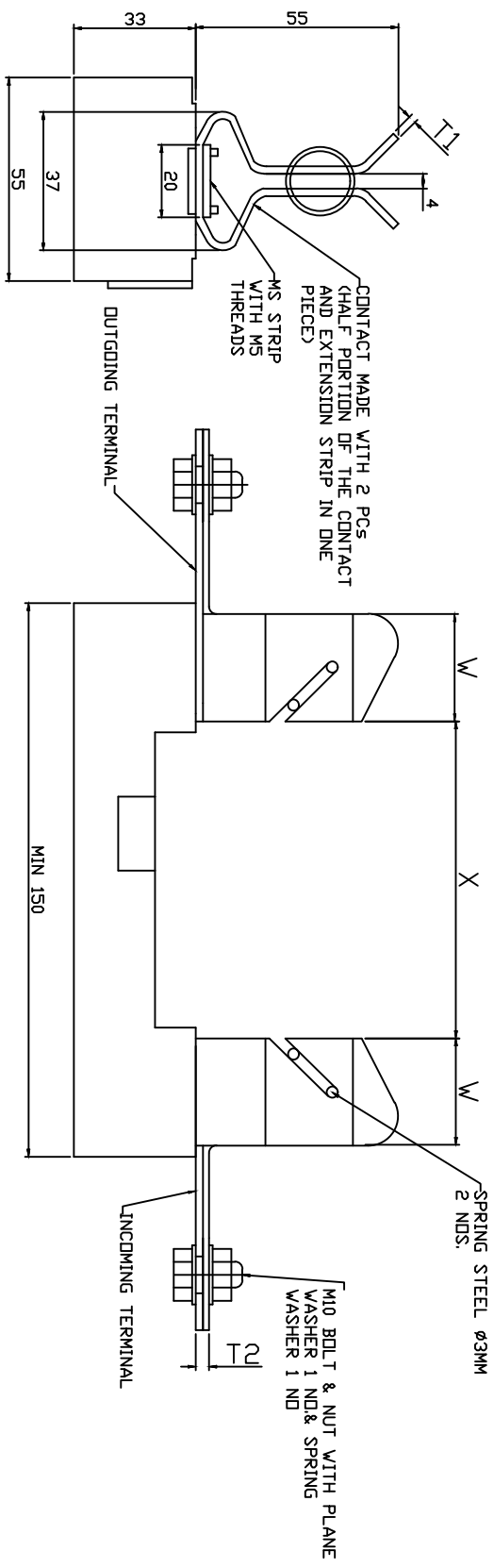


REC

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: TAMPER PROOF DEEP DRAWN METAL METER BOX FOR HOUSING
THREE PHASE METER WITH CTs & MODDEM



DESCRIPTION	63/100 KVA	200 KVA	315 KVA
FUSE BASE CURRENT RATING	200 Amps	400 Amps	630 Amps
TERMINAL THICKNESS T1	1.8 MM	3 MM	5 MM
TERMINAL THICKNESS T2	3.6 MM	6 MM	10 MM
X	86 MM	86 MM	86 MM
W	29 MM	35 MM	35 MM
L	25 MM	38 MM	38 MM
B	28 MM	34 MM	34 MM

All dimensions are in mm.



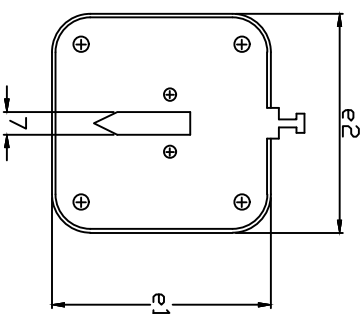
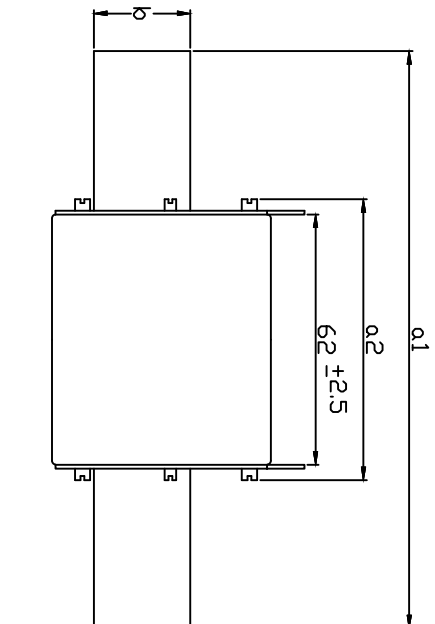
FOR TENDER PURPOSE ONLY
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: HRC FUSE BASE FOR 63/100/200/315 KVA

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/17	1 OF 1	0



DESCRIPTION	a1	a2 (max.)	b(min)	e1(max.)	e2 (max.)
HRC LINK 100/160A	135 \pm 2.5	75	20	53	52
HRC LINK 315A	150 \pm 2.5	75	25	61	60
HRC LINK 500A	150 \pm 2.5	75	32	76	75

All dimensions are in mm.



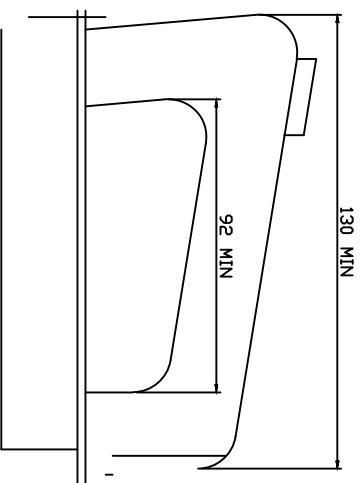
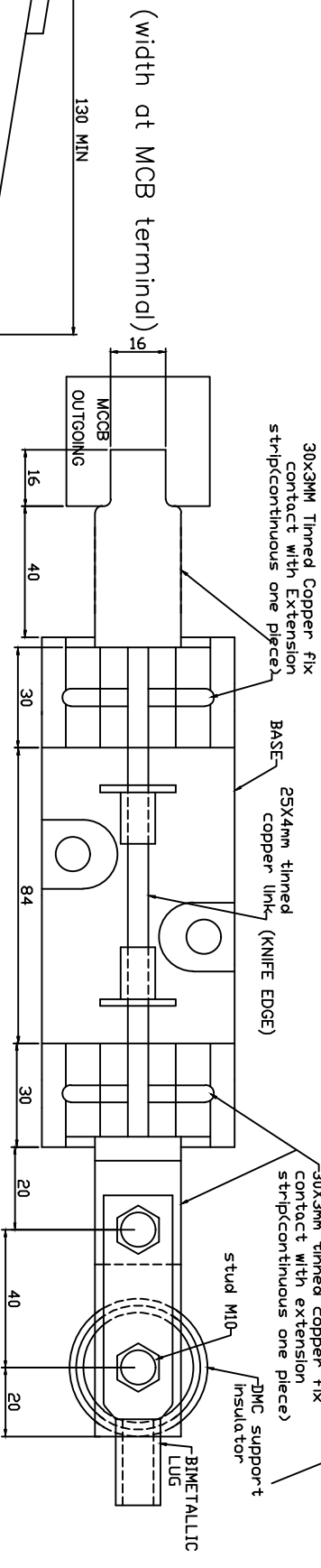
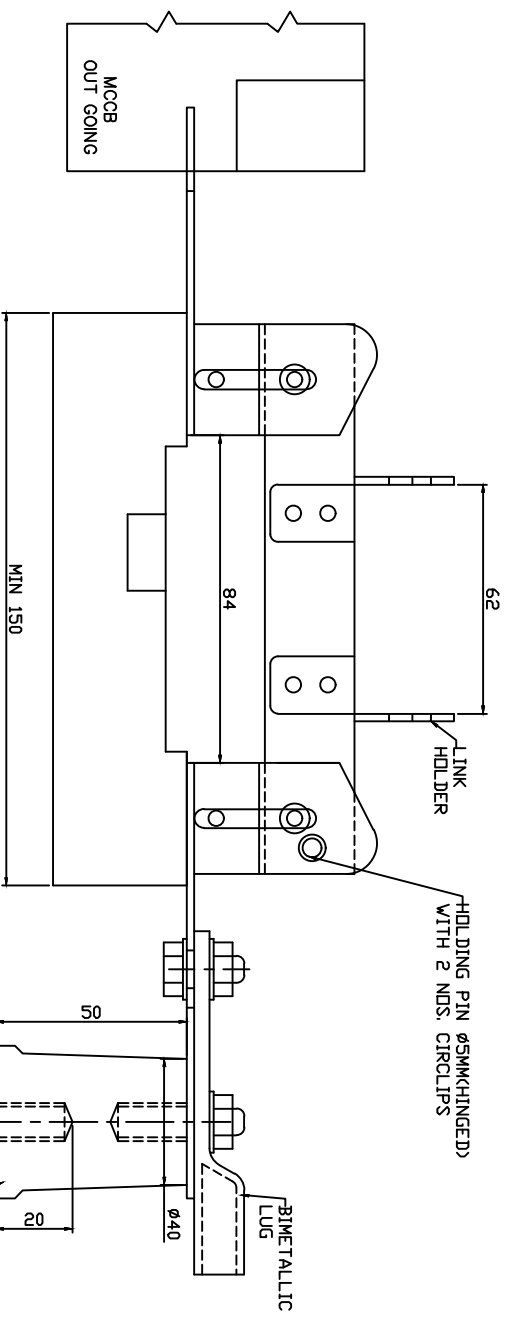
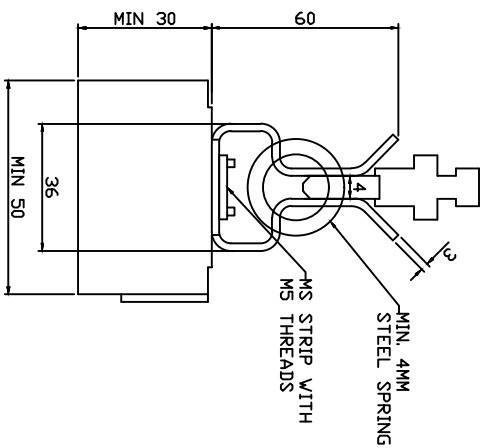
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: HRC FUSE LINK

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/DTR SS/19	1 OF 1	0

FOR TENDER PURPOSE ONLY



PULLER/HANDLE

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

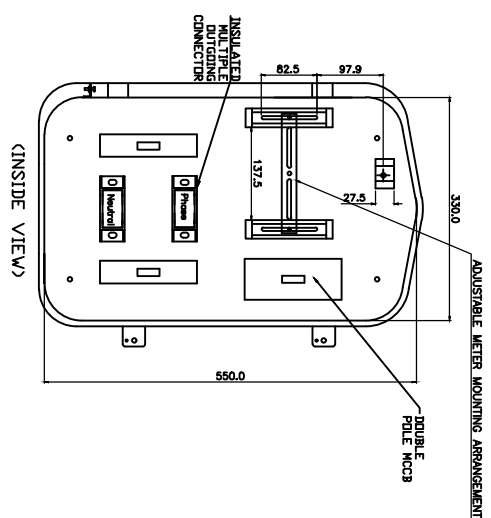
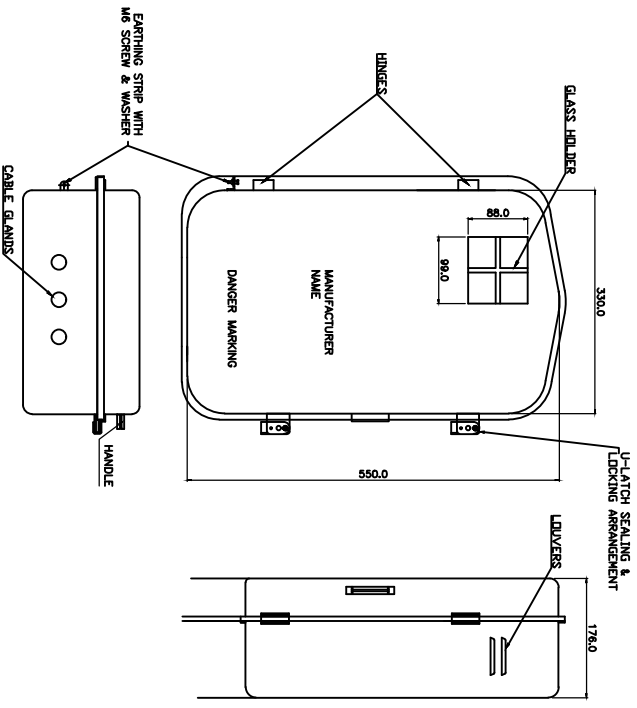
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/19	1 OF 1	0

REC **अरु ई सी**

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DETAILS OF LINK DISCONNECTOR FOR 63/100/200/315 KVA DISTRIBUTION BOX



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

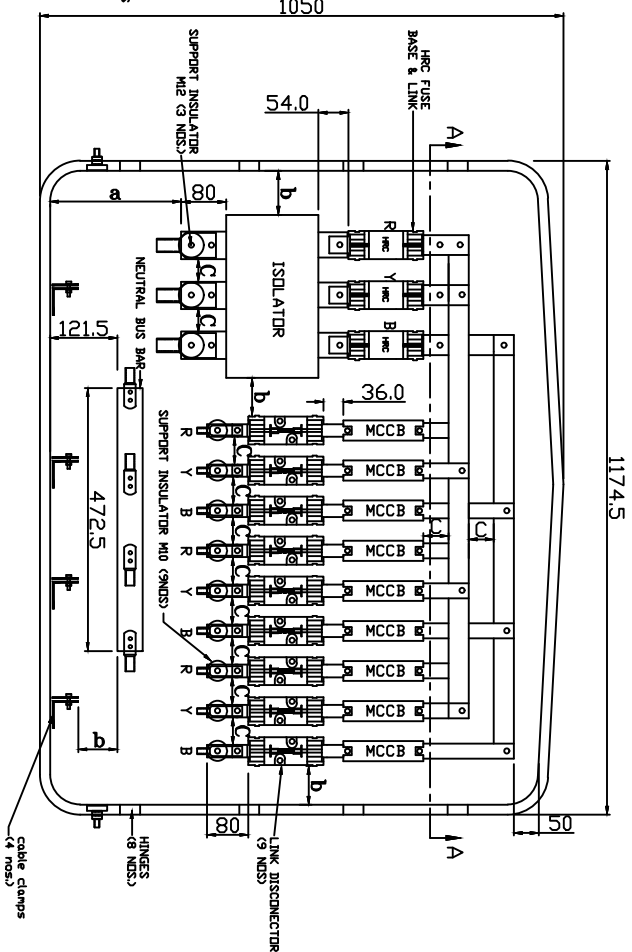
REC **आर ई सी**
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

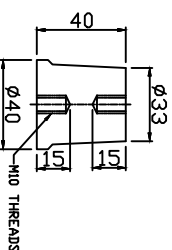
TITLE
10 KVA & 16 KVA L.T. DISTRIBUTION BOX WITH MCCBs (DEEP DRAWN TYPE)

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/20	1 OF 1	0

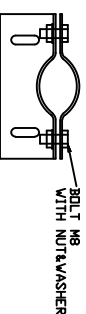
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
01					



DETAILS OF SUPPORT INSULATOR
FOR NEUTRAL BUS BAR (2 Nos.)



DETAILS OF CABLE CLAMPS



L.T. DISTRIBUTION BOX WITH ASSY. DETAILS

FOR TENDER PURPOSE ONLY

					SIZE SCALE	DWG. NO.	SHT. NO.	REV. NO.
R0							1 OF 1	0
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT			
					A3	REC/RDSS/DTR SS/21		
					NTS			

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

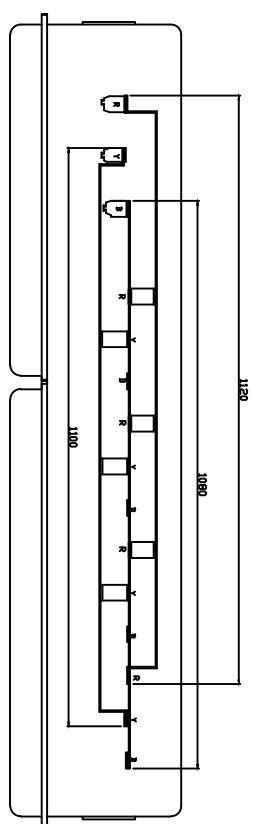
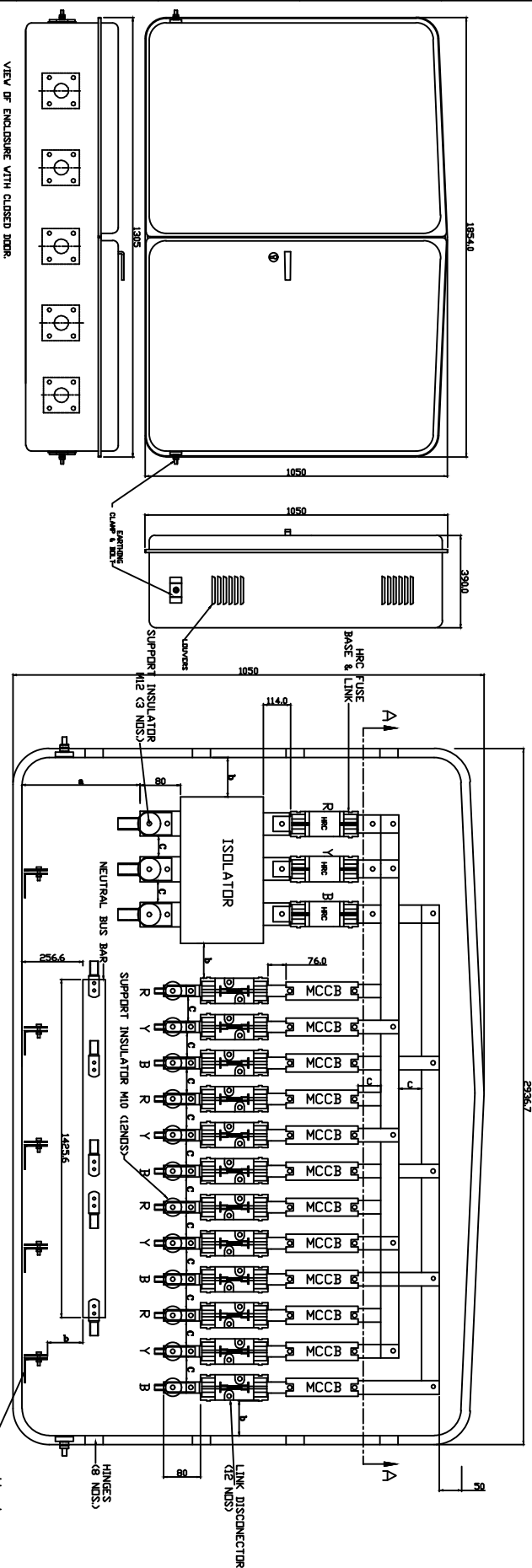
L.T. DISTRIBUTION BOX FOR 200 KVA

SIZE	SCALE	DRG. NO.
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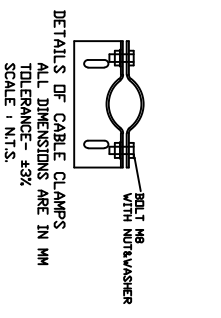
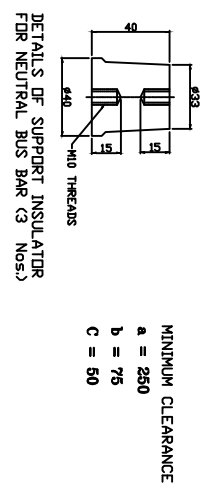
A3 NTS	REC/CRDSS/DTR SS/21

SHT. NO.	REV. NO.
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1 OF 1	0
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SECTION 'A-A' WITH BUS BAR ASSEMBLY DETAILS.



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

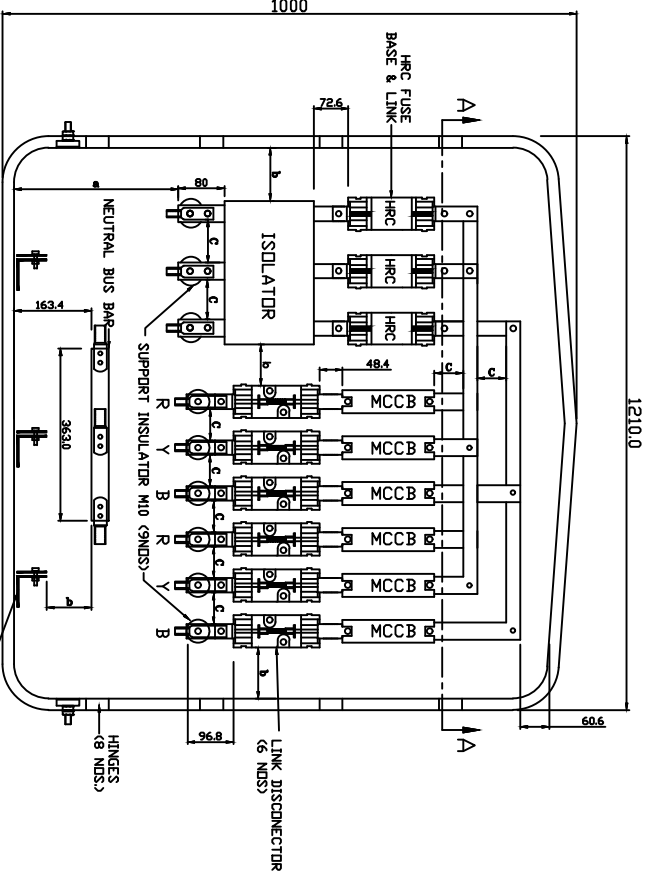
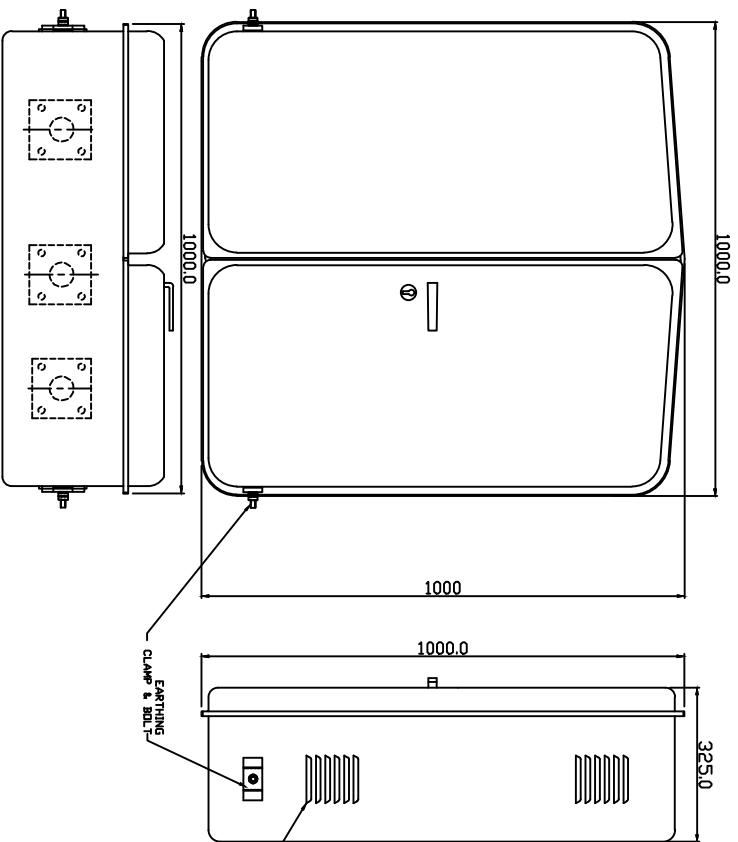
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/DTR SS/22	1 OF 1	0		

REC **आर ई सी**

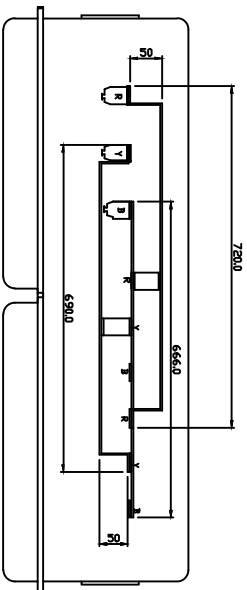
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: L.T. DISTRIBUTION BOX WITH ASSY. DETAILS FOR 315 KVA



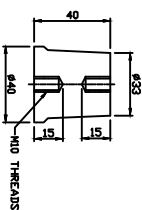
VIEW OF ENCLOSURE WITH CLOSED DOOR.



SECTION 'A-A' WITH BUS BAR ASSEMBLY DETAILS.

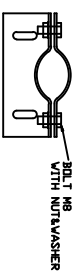
All dimensions are in mm.

DETAILS OF SUPPORT INSULATOR FOR NEUTRAL BUS BAR (2 NOS.)



MINIMUM CLEARANCE
a = 250
b = 75
c = 50

DETAILS OF CABLE CLAMPS



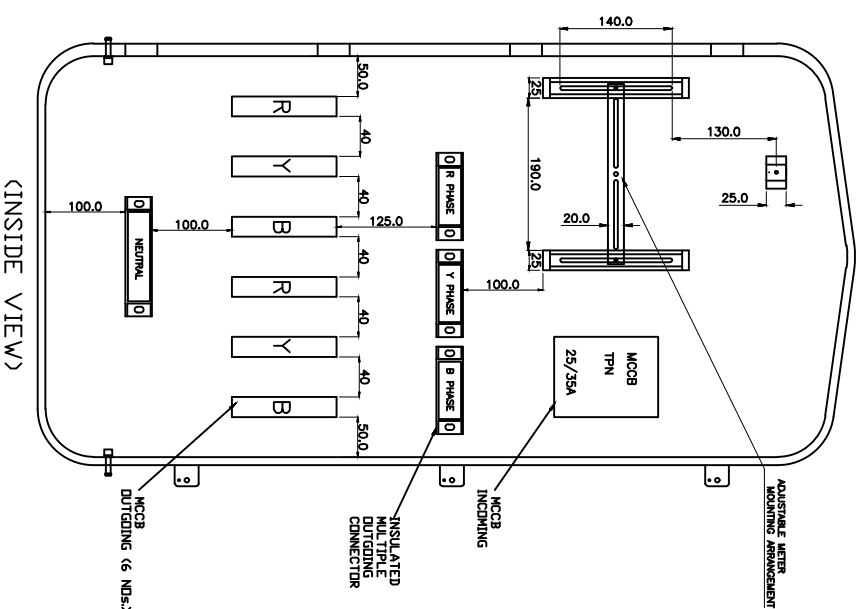
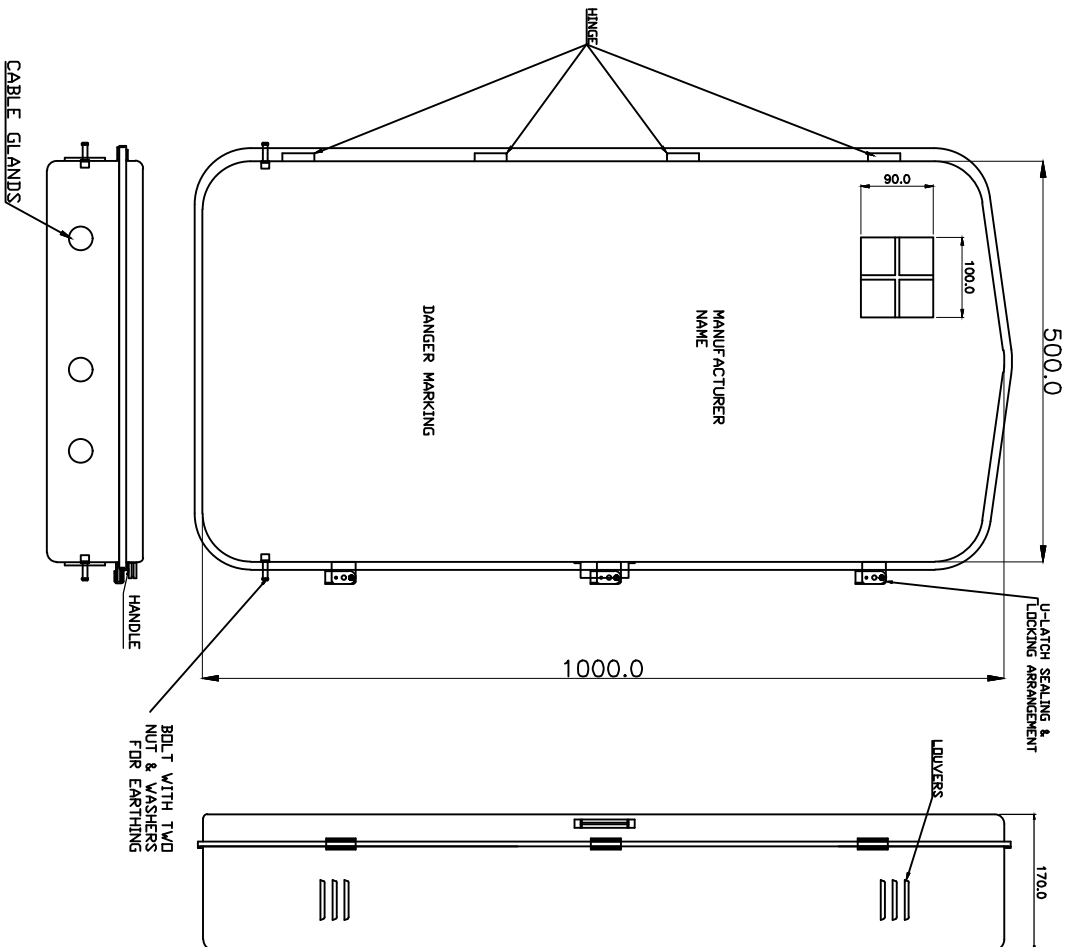
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: L.T. DISTRIBUTION BOX WITH ASSY. DETAILS FOR 63/100 KVA

FOR TENDER PURPOSE ONLY

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/DTR SS/23	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

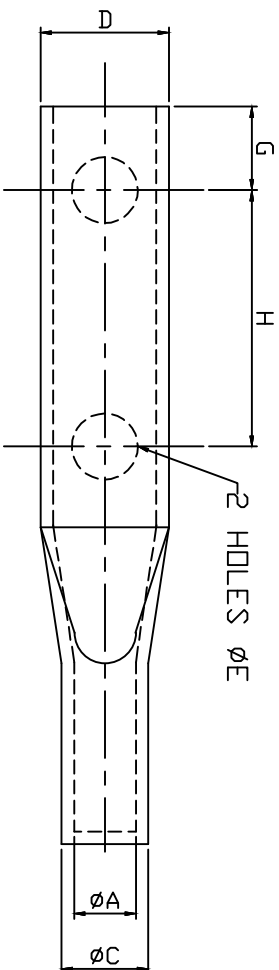
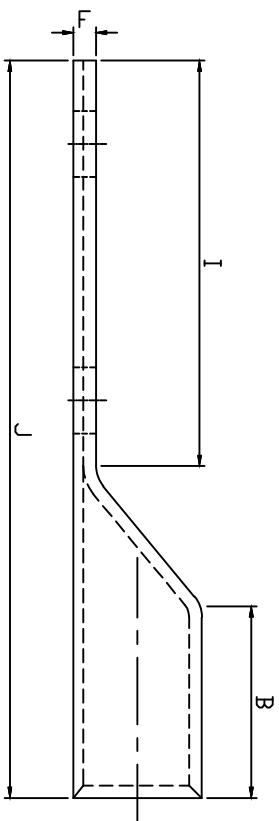
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/24	1 OF 1	0

REC **अरु ई सी**
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 16 KVA & 25 KVA 3-PHASE L.T. DISTRIBUTION BOX WITH MCCBs
(DEEP DRAWN TYPE)



SIZE NO.	ØA	ØC	D	F	ØE	B	G	H	I	J
CABLE SIZE (50 SQ.MM)	9.6	13.5	20.0	3.5	10.3	30	13	40	65	115
CABLE SIZE (70 SQ.MM)	11.8	17.0	24.0	5.3	10.3	38	13	40	65	115
CABLE SIZE (120 SQ.MM)	15.6	21.9	30	6	13.0	50	20	40	81	145
CABLE SIZE (150 SQ.MM)	16.5	22	31.5	5.3	13.0	50	20	40	90	156
CABLE SIZE (300 SQ.MM)	24	31	45	6.8	13.0	50	20	40	90	156

All dimensions are in mm.

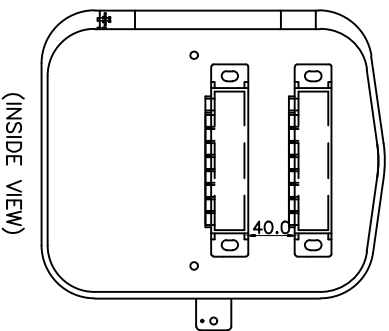
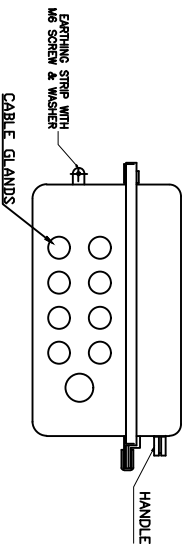
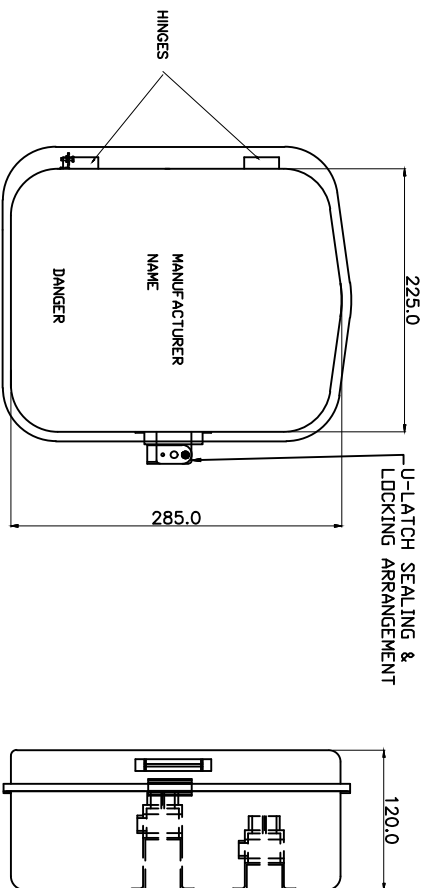


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: BIMETALLIC LUGS

FOR TENDER PURPOSE ONLY				SIZE SCALE		DRG. NO.		SHT. NO.		REV. NO.	
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	As	NTS	REC/RDSS/DTR	SS/25	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

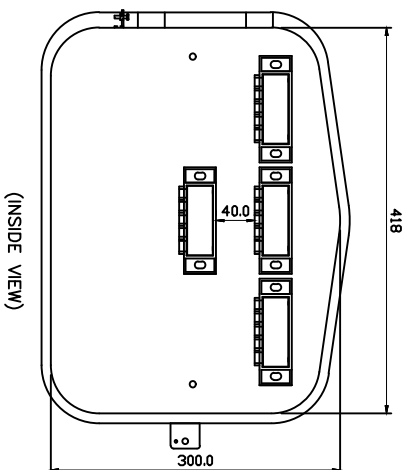
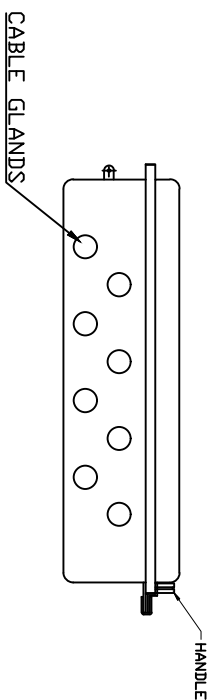
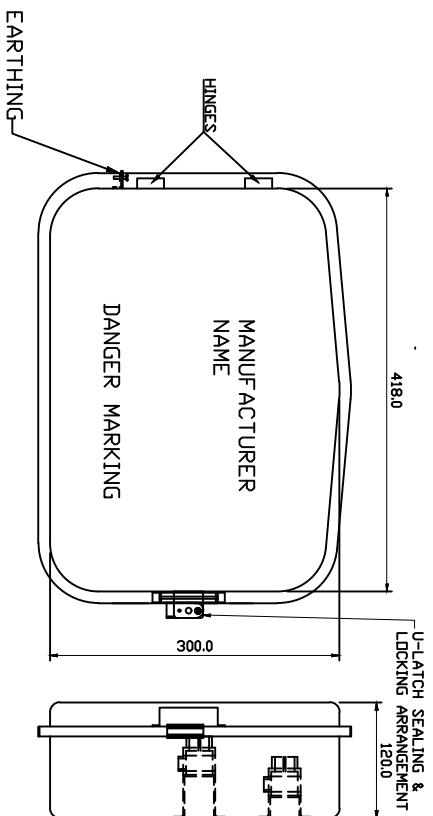


आर ई सी
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE		
LT DISTRIBUTION BOX FOR SINGLE PHASE ABC		
SIZE/SCALE	DRG. NO.	SHT. NO. / REV. NO.
A3 MTS	REC/RDSS/DTR SS/26	1 OF 1 / 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
0					



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

DEEP DRAWN TYPE 3 PHASE L.T. DISTRIBUTION BOX FOR AB CABLE

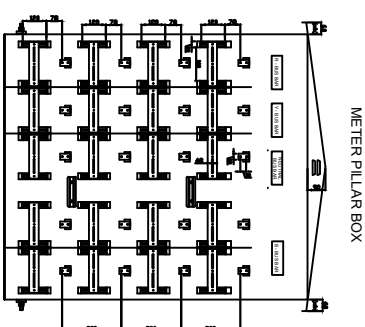
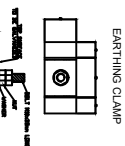
SIZE SCALE DRG. NO.

SHT. NO. REV. NO.

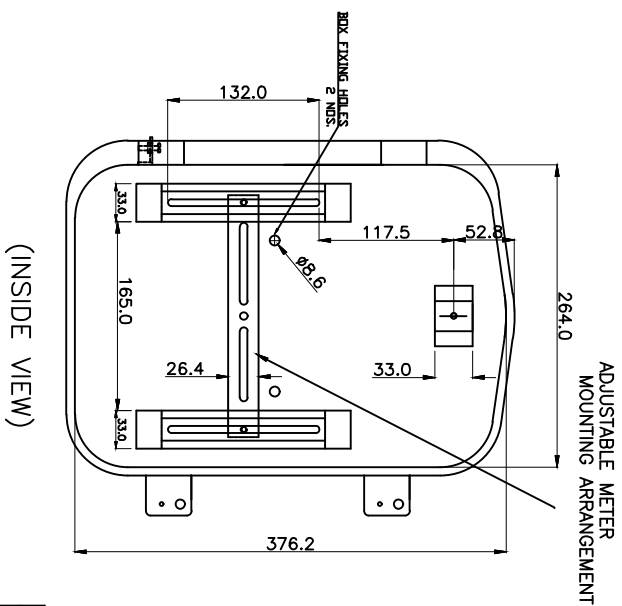
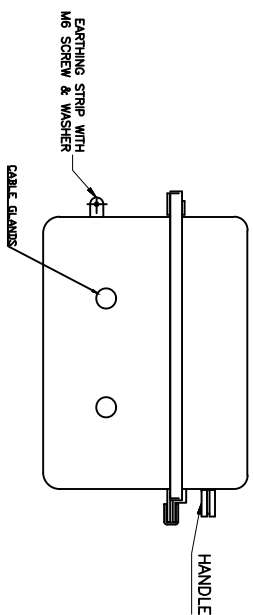
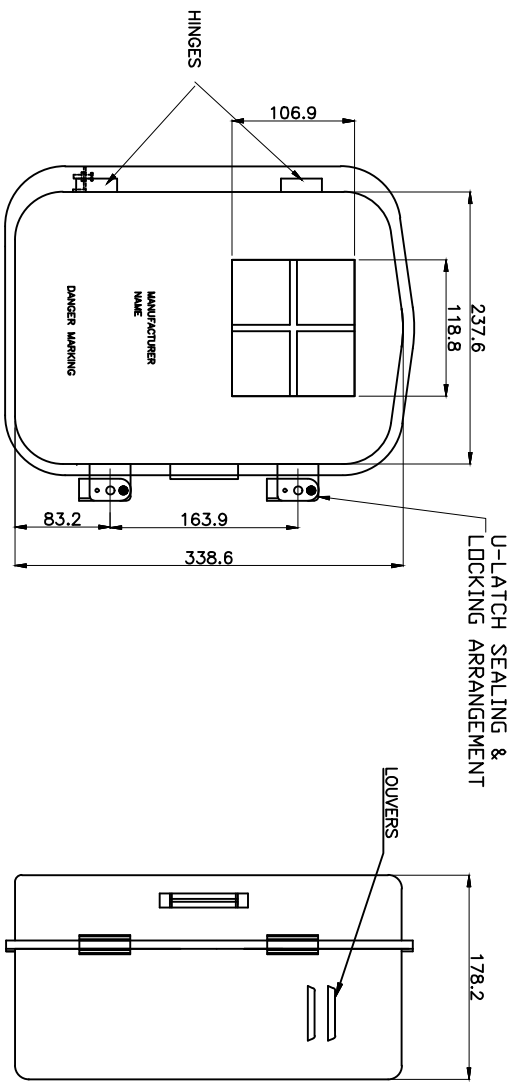
AS NTS REC/RDSS/DTR SS/27

1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



FOR TENDER PURPOSE ONLY					SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
NO							1 OF 1	0
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	REC/RDSS/DTR SS/28		



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

METAL METER BOX FOR SINGLE PHASE METER (DEEP DRAWN METHOD)

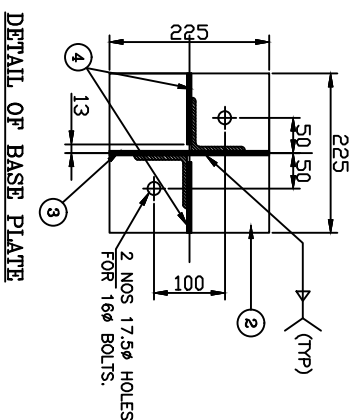
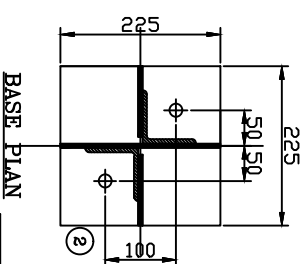
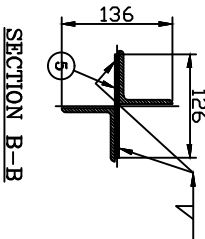
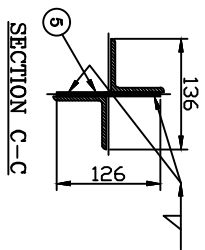
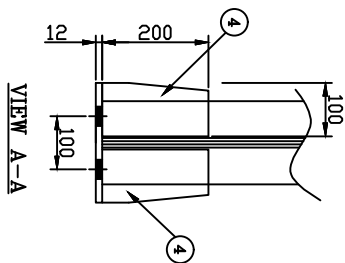
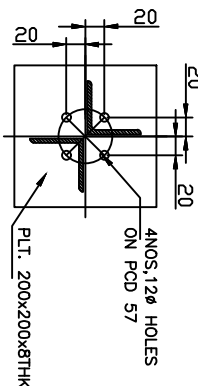
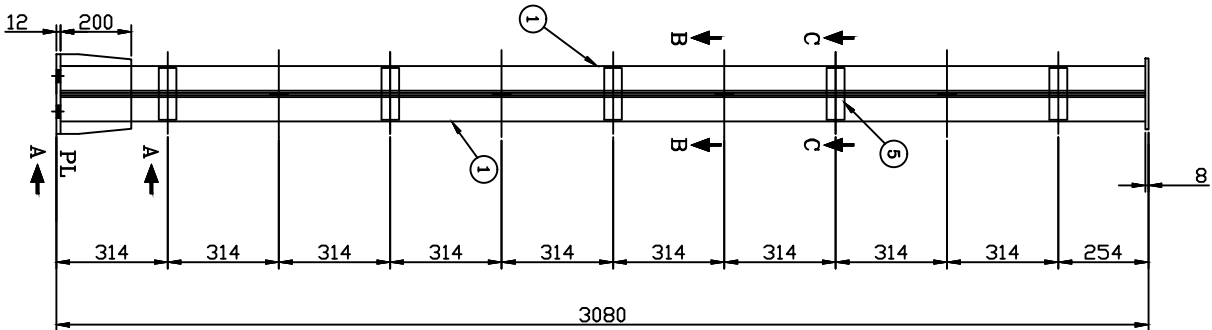
SIZE/SCALE DRG. NO.

A3 MTS REC/RDSS/DTR SS/29

SHT. NO. REV. NO.

1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



BILL OF MATERIAL					
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m
1	L 65x65x6	2	3054	-	5.80
2	PL 12THK	1	225	225	94.2
3	PL 6THK	1	200	225	47.10
4	PL 6THK	2	100	200	47.10
5	PL 6THK	8	50	146	47.10
6	PL 8THK	1	200	200	62.80
TOTAL WEIGHT OF STRUCTURE					49.46

WEIGHT OF THE STRUCTURE : 49.46 kg

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

ACTUAL LENGTH OF MEMBER SHOULD BE DECIDED BASED ON FULL SCALE LAYOUT AT FACTORY

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 17.5mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANISED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/Sqm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x50x6 WILL HAVE 28mm BACK MARK.
6. 35mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREFIXED WITH "SP".
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062.
9. ALL WELDS SHALL BE 6 mm FILLET WELD UNLESS SPECIFIED OTHERWISE.
10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.6 OR IS: 1363 & 1367.
11. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

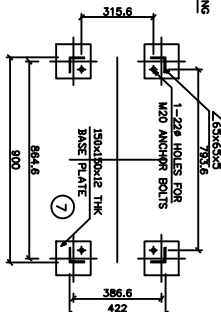
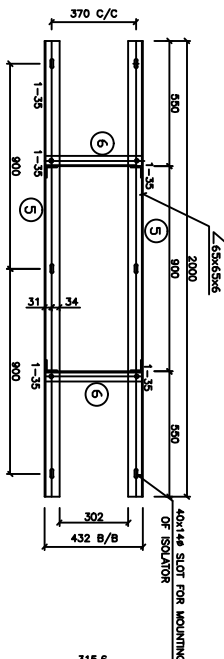
PROJECT.

Revamped Distribution Sector Scheme (RDSS)

TITLE STRUCTURAL DETAILS OF 11kV PI

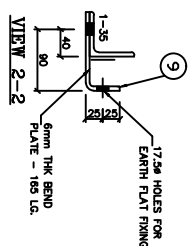
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11kV PSS/01	1 OF 1	0

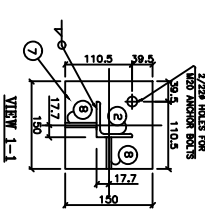


TOP PLAN
MOUNTING ARRANGEMENT PLAN FOR ISOLATOR

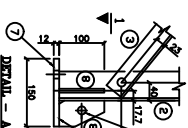
VIEW 3-3



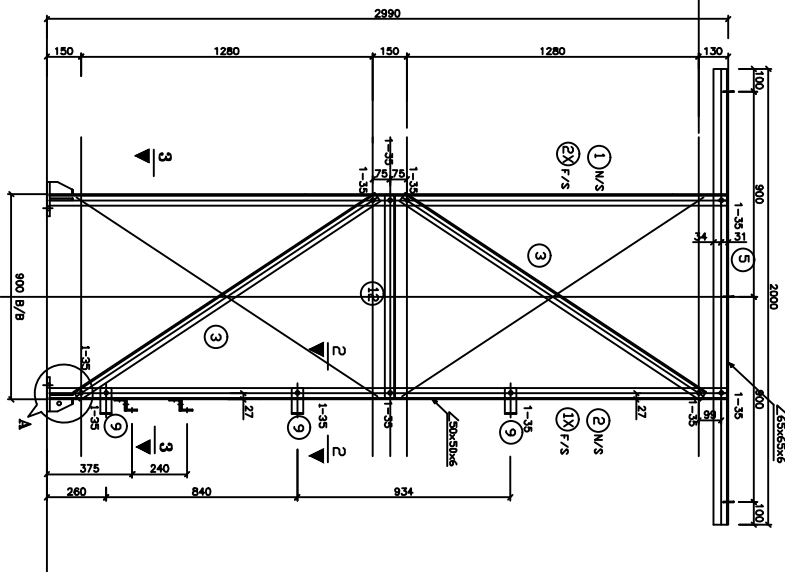
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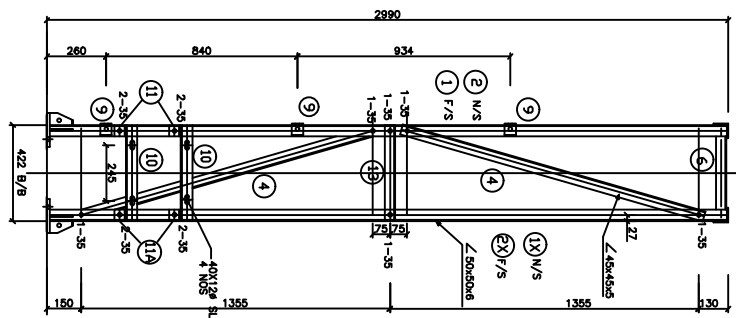
VIEW 1-1



DETAIL - A



FRONT ELEVATION



SIDE ELEVATION

BILL OF MATERIAL

ERECTOR MARKS	DESCRIPTION	LENGTH IN mm	QUANTITY IN Nos.	UNIT WT. IN kg.	TOTAL WT. IN kg.
1	1x L 90 x 50 x 6	2972	1	4.5	53.50
2	2x L 45 x 45 x 5	1365	4	3.4	21.55
3	L 45 x 45 x 5	1362	4	3.4	18.80
4	L 45 x 45 x 5	2000	2	5.8	23.20
5	L 65 x 65 x 6	418	2	3.4	2.84
6	L 45 x 45 x 5	150x150	4	94.2	8.48
7	12mm THK. MS BASE PLATE	100x57	8	62.8	2.86
8	6mm THK. MS STIFFENER PLATE	165	3	47.1	23.31
9	6mm THK. BEND PLATE	422	2	3.8	3.21
10	L 50 x 50 x 5	65	4	3.8	0.99
11	L 50 x 50 x 5	896	2	3.4	6.09
12	L 45 x 45 x 5	418	2	3.4	2.84
13	L 45 x 45 x 5	418	2	3.4	2.84
TOTAL WEIGHT OF STRUCTURAL STEEL =					167.67

HEX BOLT M16x35 LG.	0.124	47	5.83
HEX BOLT M16x40 LG.	-	-	-
SPRING WASHER	0.009	47	0.423
TOTAL WEIGHT OF BOLTS & NUTS =			6.25

WEIGHT OF STRUCTURAL STEEL : 167.67kg
WEIGHT OF BOLTS/NUTS : 6.25 kg
WEIGHT OF THE STRUCTURE : 173.92kg

NOTE: ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
 2. ALL HOLES ARE 17.25mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
 3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANIZED AFTER FABRICATION WITH MINIMUM 100gms/SM FOR ALL STRUCTURAL STEEL MEMBERS.
 4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
 5. ALL L50x50x6 WILL HAVE 23mm BACK MARK.
 6. 35mm SPRING WASHERS TO BE USED UNDER EACH NUT.
 7. ALL ERECTION MARK SHALL BE PREPARED WITH 1:500.
 8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS 2062.
 9. ALL WELDS SHALL BE 6 mm FILLER WELD UNLESS SPECIFIED OTHERWISE.
 10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.8 OF IS 1307.
 11. SPRING WASHERS SHALL BE AS PER IS 2016 & SPRING WASHER SHALL BE AS PER IS 1305.

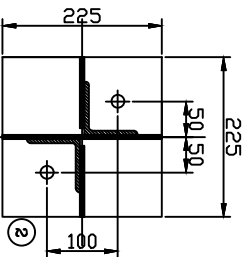
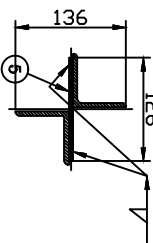
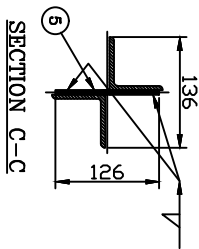
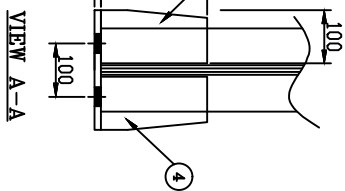
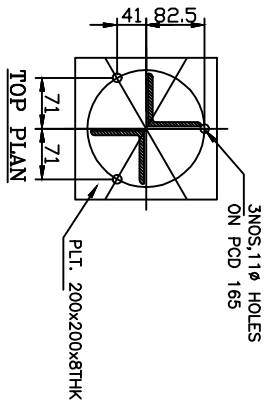
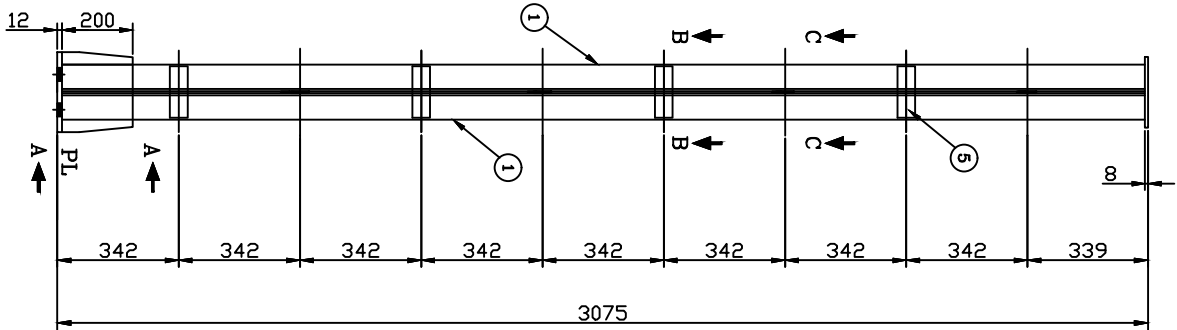
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

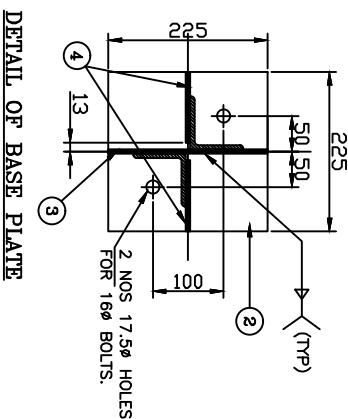
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE STRUCTURAL DETAILS OF 11KV ISOLATOR

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11kv PSS/02	1 OF 1	0



BASE PLAN



DETAIL OF BASE PLATE

BILL OF MATERIAL					
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m
1	L 65x65x6	2	3065	-	5.80
2	PL 12THK	1	225	225	94.2
3	PL 6THK	1	200	225	47.10
4	PL 6THK	2	100	200	47.10
5	PL 6THK	8	50	146	47.10
6	PL 8THK	1	200	200	62.80
TOTAL WEIGHT OF STRUCTURE					49.47

WEIGHT OF THE STRUCTURE : 49.47 kg

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

ACTUAL LENGTH OF MEMBER SHOULD BE DECIDED BASED ON FULL SCALE LAYOUT AT FACTORY

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 12.5mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANIZED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/50cm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x50x6 WILL HAVE 28mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREPARED WITH "11A"
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062
9. ALL WELDS SHALL BE 6 mm FILET WELD UNLESS SPECIFIED OTHERWISE.
10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.6 OF IS: 1363 & 1367.
11. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

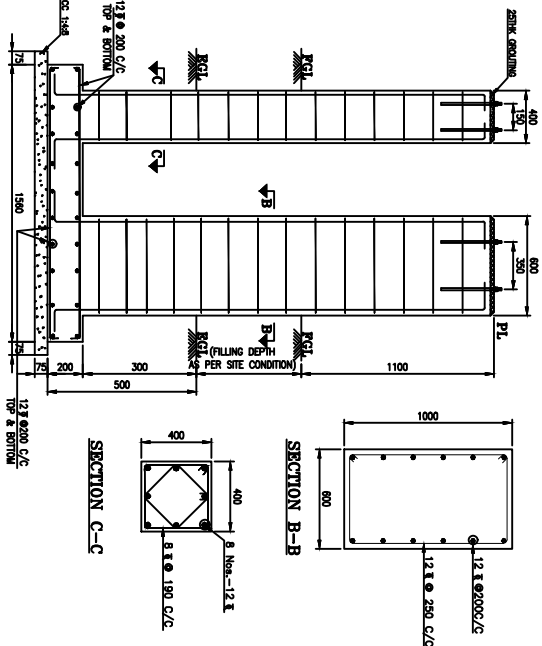
Revamped Distribution Sector Scheme (RDSS)

STRUCTURAL DETAILS OF 11kV LA

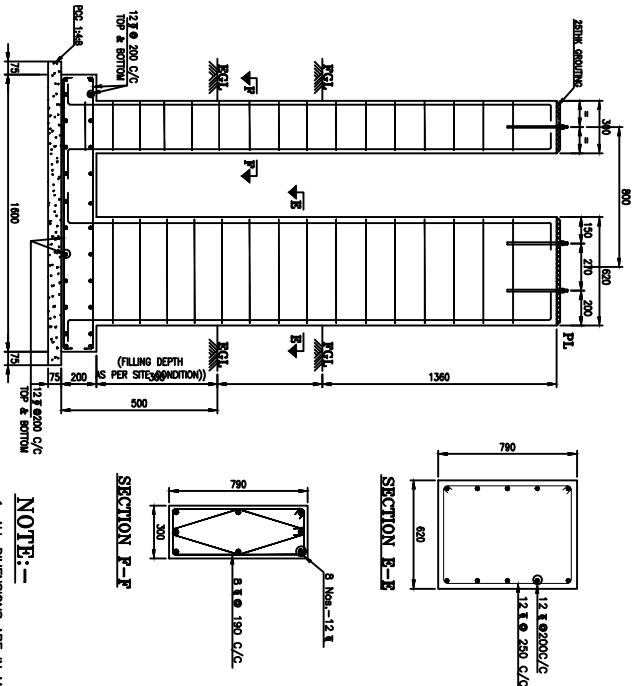
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11kV PSS/03	1 OF 1	0

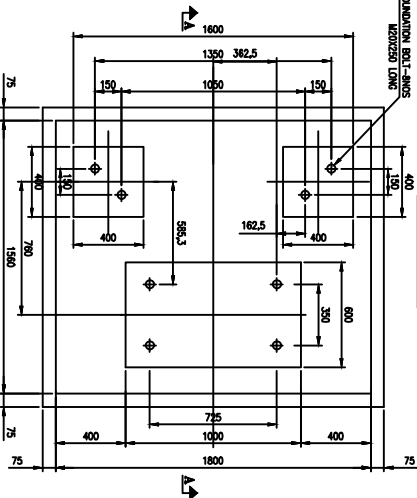
MAKE : OLG



MAKE : SIEMENS

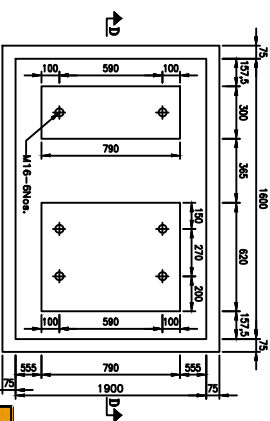


SECTION A-A



FOUNDATION PLAN
OLG MAKE COMBINED VCB/CT FOUNDATION

SECTION D-D



FOUNDATION PLAN
SIEMENS MAKE COMBINED VCB/CT FOUNDATION

NOTE:-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL CONCRETE GRADE M20
3. REINFORCEMENT STEEL SHALL BE HYSD BAR.
4. CLEAR COVERS TO REBARS SHALL BE AS FOLLOWS
5. LAP LENGTH TO REBAR SHALL BE MIN. 50 DIA AND LAPS IN ALTERNATIVE BARS SHALL BE STAGGERED.
6. FOR DETAILS OF FOUNDATION BOLT REFER DRG NO. (3)671570-80203-FO03, SIEMENS LTD. MAKE.

FOR TENDER PURPOSE ONLY



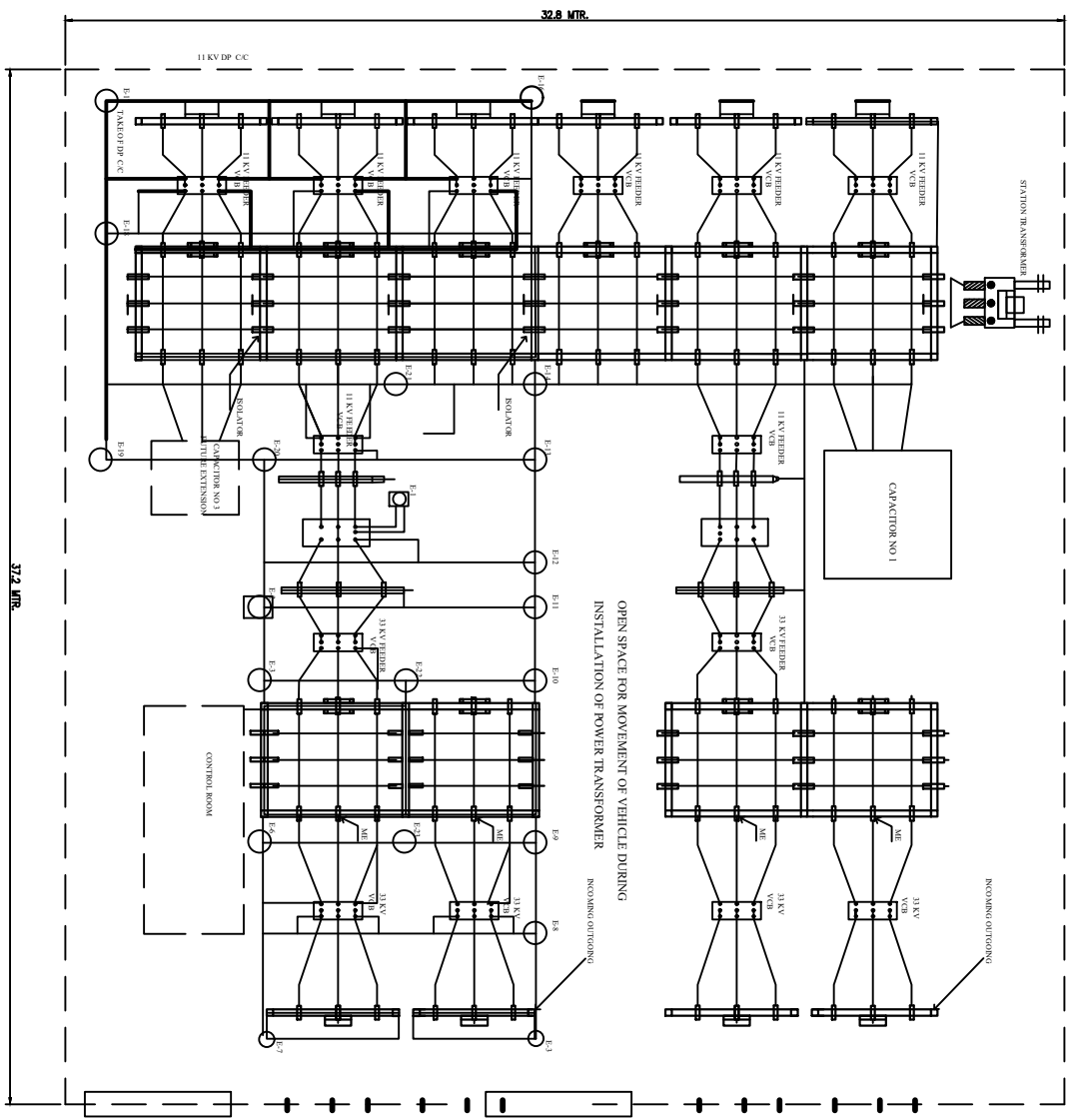
Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE FOUNDATION DETAILS OF 11KV VCB&CT

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11kv PSS/04	1 OF 1	0



SUMMARY
 E-1 TO E-3.3 NOS. BORE EARTHING 60 MTR DEPTH
 & 150 MM GI PIPE OF B CLASS
 (1 FOR PTR NEUTRAL, 1 FOR MESH & 1 FOR L/A)
 E-4 TO E-23 20 NOS. CHEM ROD EARTHING FOR MESH.

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Rural Electrification Corporation Ltd.

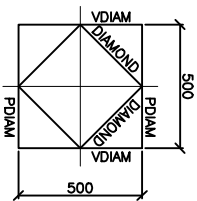
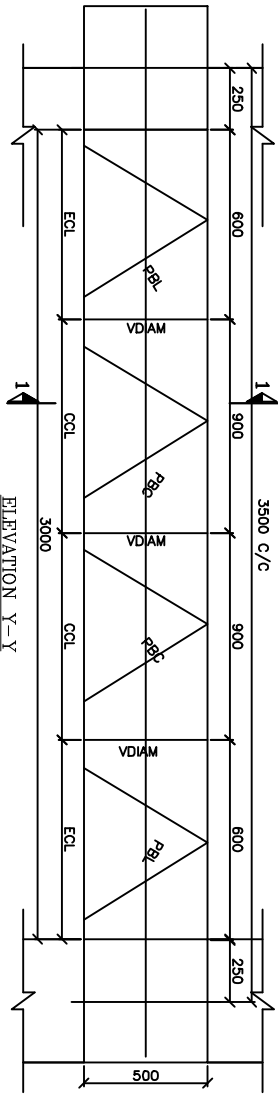
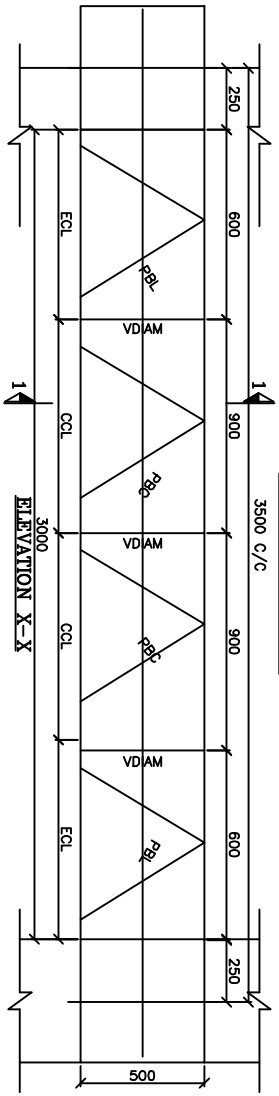
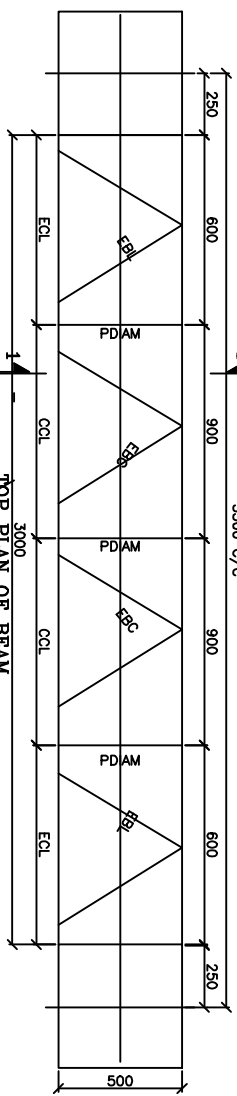
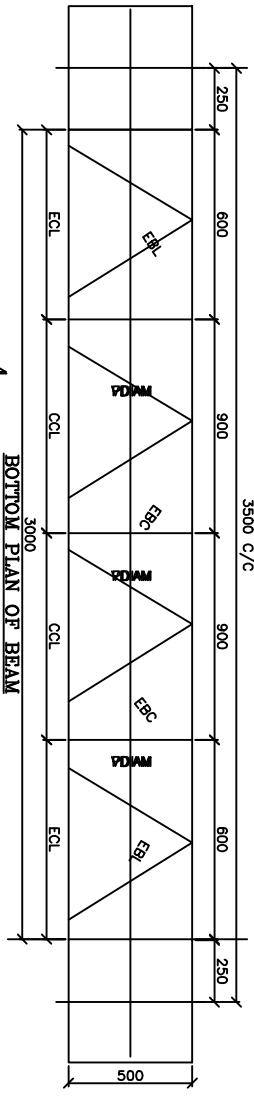
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: LAYOUT OF EARTHING IN ADD.33/11 kV S/S FOR HARD ROCK

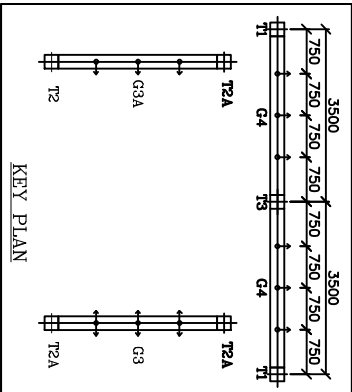
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO./REV. NO.
A4	NTS	REC/RDSS/ 33/11kV PSS /12A	1 OF 1 0

BEAM MKD	ANGLE SIZE	FCL	CCL	EBL	ERC	VDIAM	PBL	PRC	PDIAM	DIAMOND
G2	ANGLE SIZE	L45X50X6	L50X50X6	L45X45X5	L45X45X5	21.45X45X5 B/B	L45X45X5	L45X45X5	L50X50X6	L45X45X5
(33kV)	NOS OF BOLTS	2DS-6 TH PLT	2DS-6 TH PLT	02	02	02	02	02	02	02



SECTION 1-1
SCALE = 1:25



KEY PLAN

NOTES:
HIGHLIGHT:-
SPAN OF GIRDER=5.5M (C/C)
SPAN OF GIRDER=5.0M (CLEAR)
CROSS SECTION OF GIRDER=0.5M X 0.5M

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM U.N.O.
2. ALL UN-NOTED MEMBER ARE ISA L45X45X5
3. ALL ANGLE SECTIONS USED ARE EQUAL ANGLES.
4. ALL DIMENSIONS ARE CENTER LINE DIMENSIONS UNO.
5. ALL CONNECTION BOLT SHALL BE 16MM DIA. BOLT OF CLASS 5.6
6. ALL STEEL ITEMS, BOLTS, NUTS & WASHERS SHALL BE HOT DIP GALVANISED.
7. THE WT. OF THE ZINC COATING SHALL BE AT LEAST 0.610g/m² FOR BOLTS & FOR STRUCTURAL MEMBERS.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

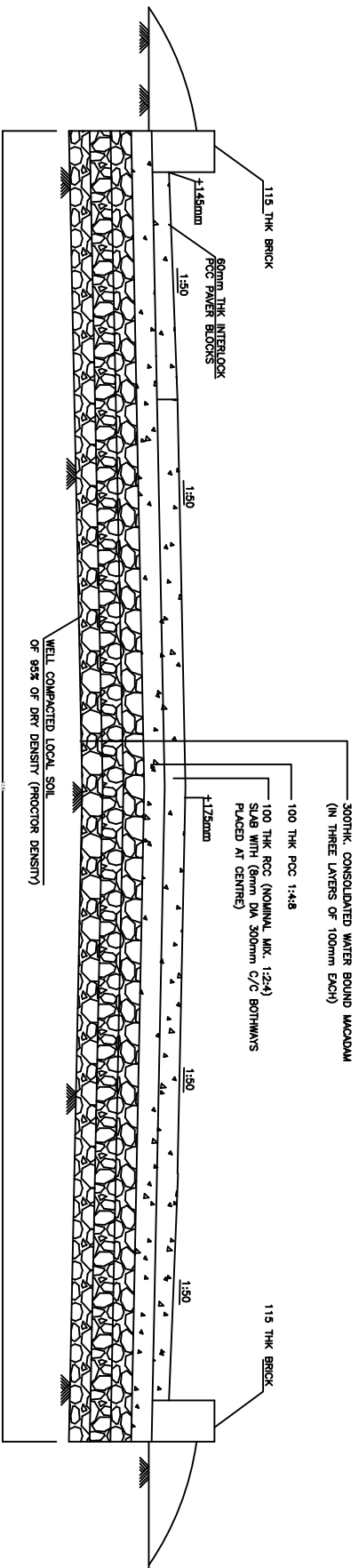
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11kV BEAM STRUCTURE

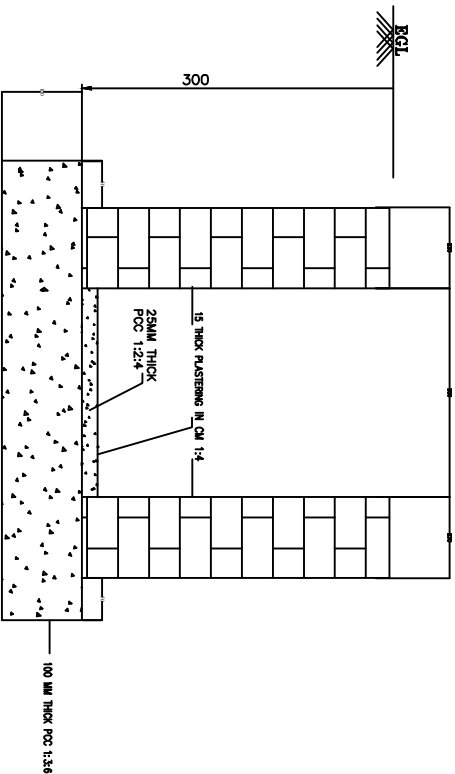
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/14B	1 OF 1	0

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/16	1 OF 1	0



TYPICAL CROSS SECTION OF 3.0M WIDE ROAD



CROSS SECTIONAL DETAIL OF OPEN DRAIN

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
2. CAMBER OF 1:50 SHALL BE PROVIDED.
3. EXPANSION JOINT (12mm THICK) SHALL BE PROVIDED AT EVERY 3.0M.
4. EXPANSION JOINT SHALL ALSO BE PROVIDED AT CENTRE.
5. POLYTHENE SHEET OF 125 MICRONS SHALL BE PLACED BETWEEN THE PCC AND RCC SLAB(TOP SLAB)
6. 100mm DIA RCC HUME PIPE (NP-3) SHALL BE PLACED ACROSS THE ROAD AT EVERY 100M INTERVAL
7. FINISHED TOP OF THE ROAD OR SURFACE LOCATED BY ENGINEER INCHARGE.
8. THE REQUIRED LENGTH OF DRAIN SHALL BE 175mm ABOVE F.G.L
9. LONGITUDINAL SLOPE SHALL BE PROVIDED 1:750

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

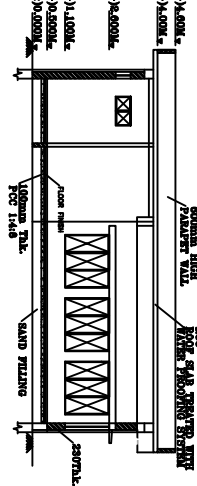
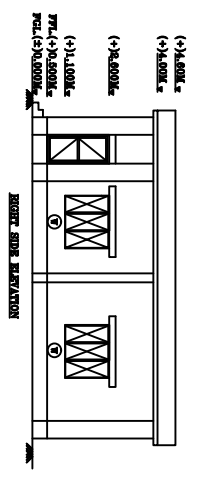
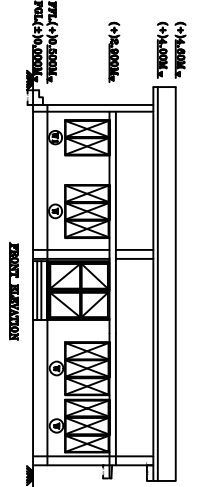
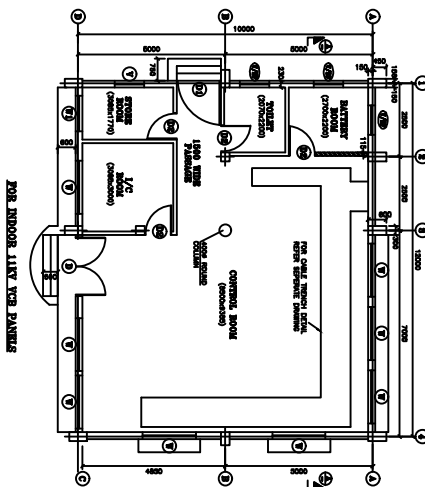
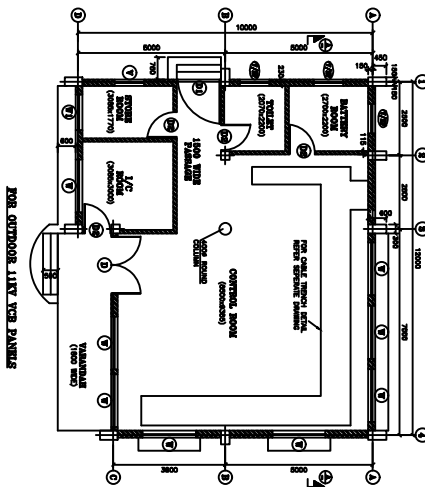
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

DETAILS OF RCC ROAD AND DRAIN

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/33/11kV PSS/17	1 OF 1	0	



FINISHING SCHEDULE

BUILDING NAME		DESCRIPTION	
SLNO	AREA DESCRIPTION	FLOORING	SKIRTING (CEILING 1500)
1	CONTROL ROOM	PRECAST TERRAZZO TILES (DSR'02/ITEM No.11.29 A.2 & 11.31.2)	PRECAST TERRAZZO TILES (DSR'02/ITEM No.11.29 A.2 & 11.31.2)
2	BATTERY ROOM	CERAMIC GLAZED TILES (DSR'02-11.74)	TERRAZZO TILES (DSR'02-11.29 A.2 & 11.31.20)
3	INCHARGE ROOM	ACID & ALKALI RESISTANT TILES (DSR'02-11.36 C.1 & 11.36 C. 1.1)	REMARKS
4	STORE ROOM	TERRAZZO TILES (DSR'02-11.29 A.2 & 11.31.20)	REMARKS
5	TOILET	ACID RESISTANT TILES 1.2M HIGH & PAINT ABOVE 1.2M TO CEILING (DSR'02-11.36C.2.1,11.36C.2&13.96.1)	REMARKS
		CERAMIC GLAZED TILES (DSR'02-11.73)	REMARKS
		CEMENT PLASTER 15mm thk. CM 1:6	REMARKS
		OIL BOUND WASHABLE DISTEMPER ON SMOOTH SURFACE WITH 2mm THK. PLASTER OF PARIS PUTTY. (DSR'02-13.40 A & 13.77.2)	REMARKS
		OIL BOUND DISTEMPER (DSR'02-13.40 A & 13.77)	REMARKS
		WHITE WASH (DSR'02-13.70.1)	REMARKS
		ACID RESISTANT PAINT (DSR'02-11.36C.2.1,11.36C.2&13.96.1)	REMARKS
		CEMENT PLASTER 6mm thk. CM1:4	REMARKS
		WHITE WASH (DSR'02-13.70.1)	REMARKS
		ACID RESISTANT PAINT(DSR'02-13.96.1)	REMARKS
		CEMENT PLASTER 18mm Thk. WITH TWO COATS, UNDER LAYER 12mm Thk. CEMENT PLASTER 1:5 & FINISHED WITH TOP LAYER 6mm Thk. CEMENT PLASTER 1:6 (DSR 13.19) WITH WPC.	REMARKS

SL NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
1.	1	1000 x 1000	SQ. M	1
2.	2	1000 x 1000	SQ. M	1
3.	3	1000 x 1000	SQ. M	1

SL NO.	ITEM NO.	DESCRIPTION	UNIT	QTY
1.	1	1000 x 1000	SQ. M	1
2.	2	1000 x 1000	SQ. M	1
3.	3	1000 x 1000	SQ. M	1

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

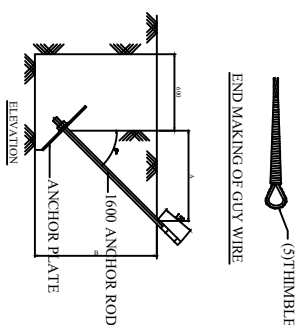
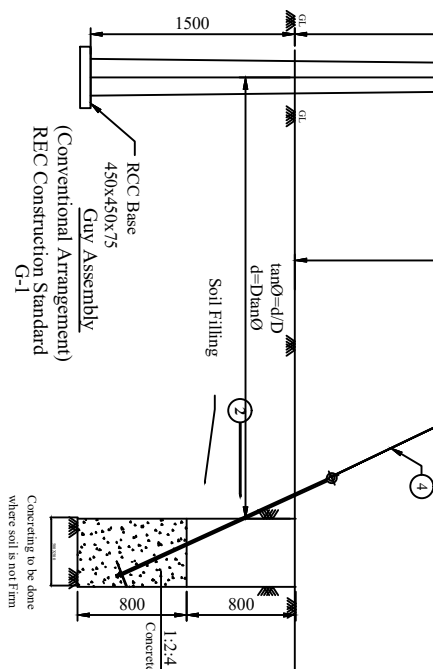
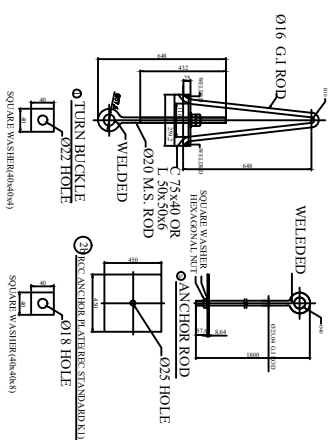
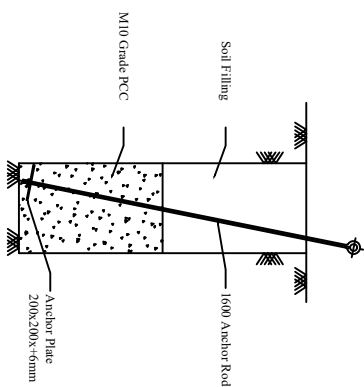
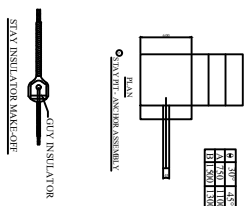
G.A. OF CONTROL BUILDING

REV. NO.	PREPARED	CHECKED	APPROVED	DATE

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/18	1 OF 1	0

All Dimensions are in mm unless otherwise mentioned

Manufacturing Tolerance as Follows	
Up to 50mm	: ± 5%
51 to 100mm	: ± 4%
101 to 300mm	: ± 3%
Above 300mm	: ± 2%



Stay Set Arrangement

Concreting 0.2cm

NOTES:-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) ALL M.S. ITEM SHALL BE HOT DIP GALVANISED AS PER IS 2629&4759
- 3) MANUFACTURING TOLERANCE
UP TO 50mm - \pm 5%
51 TO 100mm - \pm 4%
101 TO 300mm - \pm 3%
ABOVE 300mm - \pm 2%
- 4) M.S MATERIAL SHALL CONFIRM TO IS: 2062.
- 5) GUY INSULATORS TO BE UTILISED AS PER SPECIFICATION FOR HT & LT LINES RESPECTIVELY.
- 6) FOR FIRM SOILS, ONLY SOIL FILLING WITH COMPACTION TO BE DONE

BILL OF MATERIAL

BILL OF MATERIAL					
ITEM NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
1	TURN BUCKLE ASSEMBLY		G.I		1 NO.
a	EYE BOLT	Ø20mm	G.I	550	1 NO.
b	SUPPORTING ANGLE	L50x50x6	G.I	180	1 NO.
c	EYE HOOK	Ø16mm	G.I	1000	1 NO.
d	WASHER	4MM	G.I	40X40	1 NO.
e	NUT	M20	G.I		2 NOS.
2	ANCHOR ROD & ANCHOR PLATE		G.I		1 NO.
a	ANCHOR ROD	Ø16mm	G.I	1900	1 NO.
b	ANCHOR PLATE(EEC STANDARD K-1)	75 MM	RCC	450X550	1 NO.
c	SQUARE WASHER	8 MM	G.I	40X40	1 NO.
d	NUT	M16	G.I		1 NO.
3	GUY INSULATOR				1 NO.
4	STAY WIRE	7/3,15mm	G.I		
5	THIMBLE		G.I		2 NOS.



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

STAY SET ARRANGEMENT FOR 11KV/LT LINE

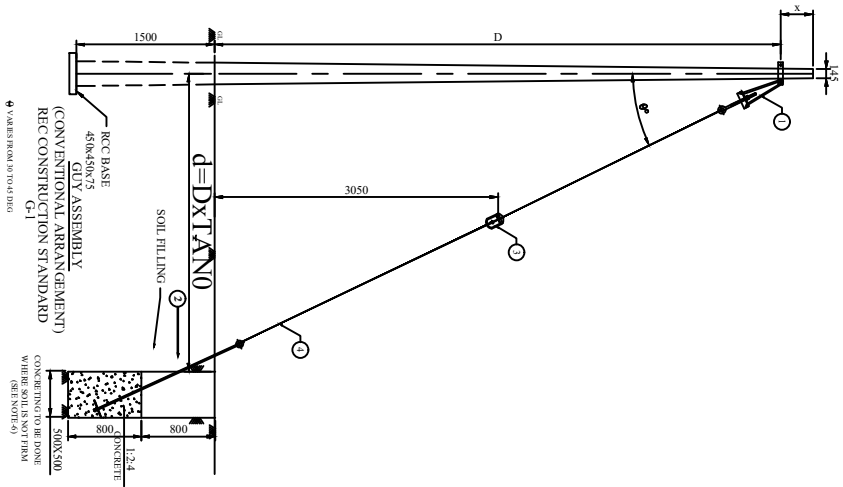
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A3	NTS
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REC/RDSS/GEN/09A

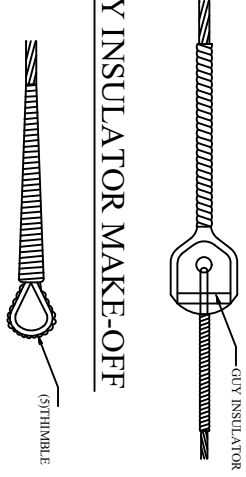
SHT. NO.	REV. NO.
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1 OF 1	0
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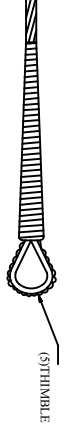


NOTES:-

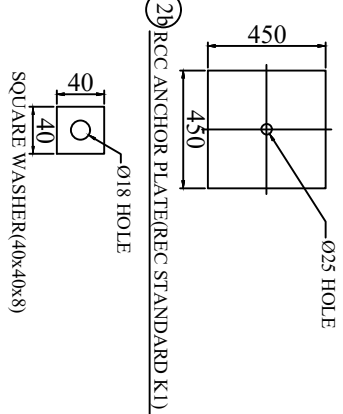
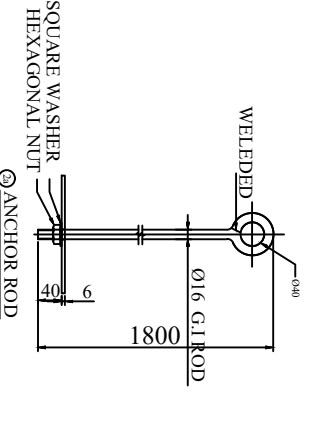
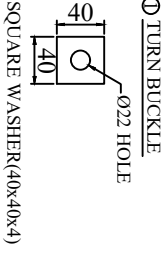
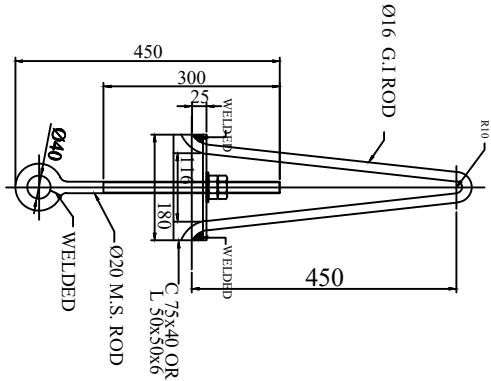
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) ALL M.S. ITEM SHALL BE HOT DIP GALVANISED AS PER IS 2629&4759
- 3) MANUFACTURING TOLERANCE
UP TO 50mm - ± 5%
51 TO 100mm - ± 4%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 2%
- 4) M.S MATERIAL SHALL CONFIRM TO IS 2062.
- 5) GUY INSULATORS TO BE UTILISED AS PER SPECIFICATION FOR HT & LT LINES RESPECTIVELY.
- 6) FOR FIRM SOILS, ONLY SOIL FILLING WITH COMPACTION TO BE DONE



STAY INSULATOR MAKE-OFF



END MAKING OF GUY WIRE



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

STAY SET ARRANGEMENT ON 8M/140KG/PCC POLE

SIZE SCALE

DRG. NO.

AS NTS

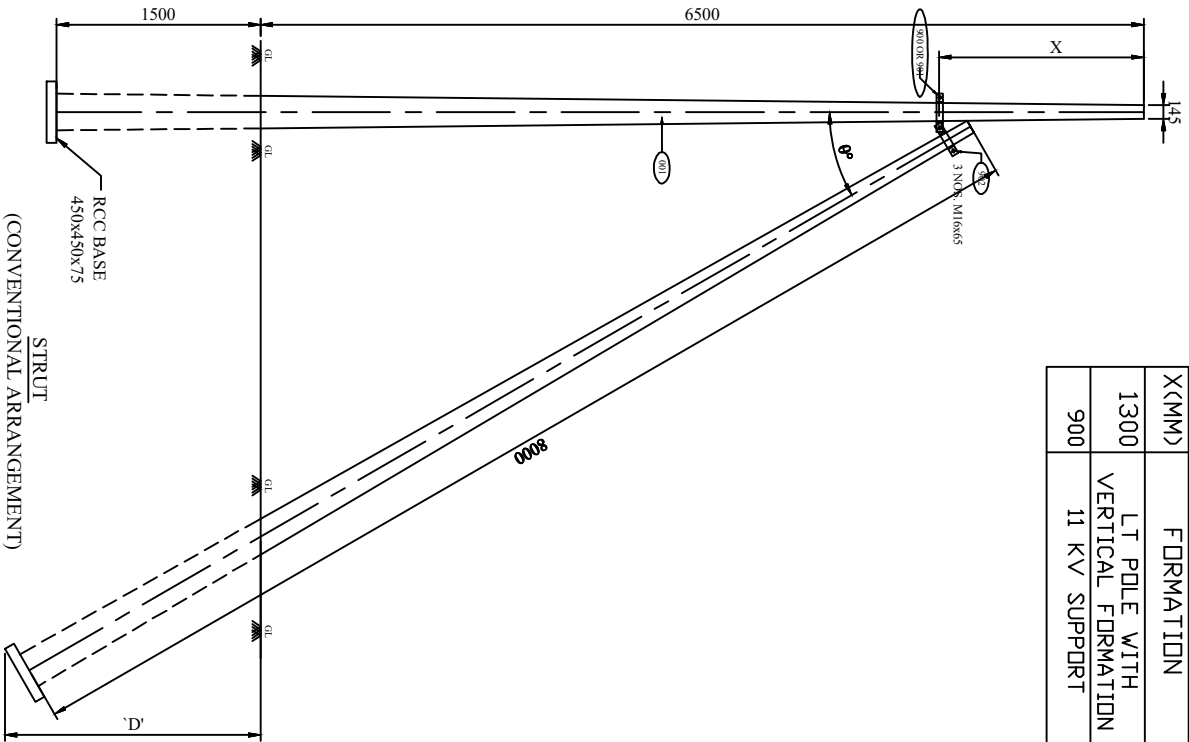
REC/RDSS/GEN/09B

SHT. NO. REV. NO.

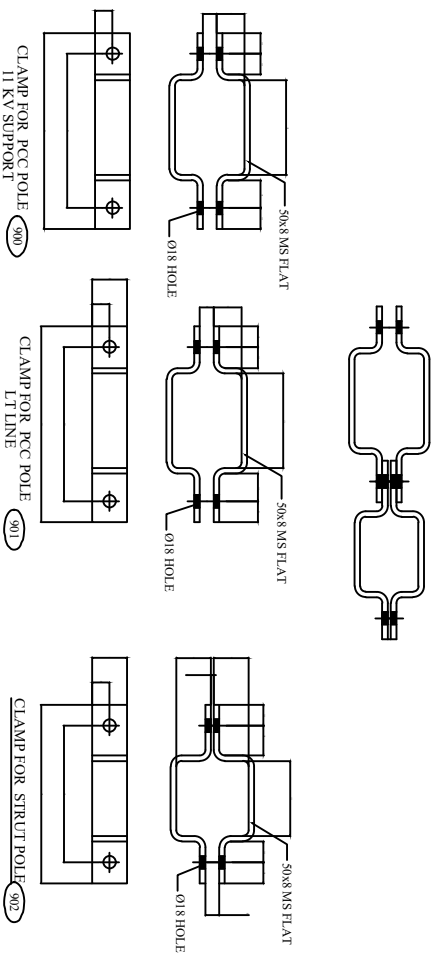
1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

X(MM)	FORMATION
1300	L T POLE WITH VERTICAL FORMATION
900	11 KV SUPPORT



BILL OF MATERIAL					
ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG./mt.
001	8mm 200 KG. PCC POLE				
900	CLAMP FOR PCC POLE (11KV SUPPORT)	50x8	MS	378	2.373
901	CLAMP FOR PCC POLE (LT LINE)	50x8	MS	385	2.418
902	CLAMP FOR STRUT POLE	50x8	MS	366	2.298
	NUTS & BOLT	M16		65	0.492
	SPRING WASHER	M16		3.5 THK.	0.027
	PLAIN WASHER	M16		3 THK.	0.045
					3 NOS.
					0.045
					7.653



- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE:
UP TO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS 2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 5262 & 4799
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE ONLY.
 - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS 596 PART-1.

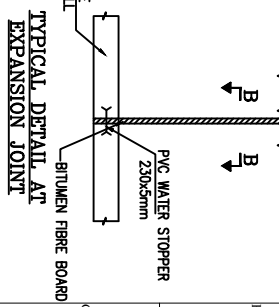
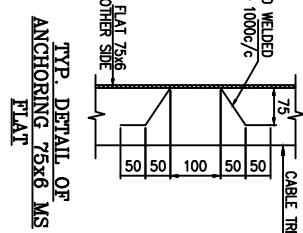
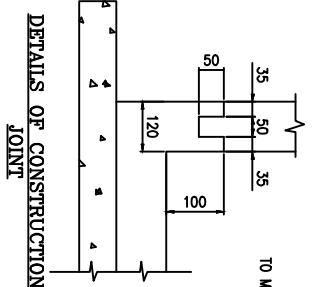
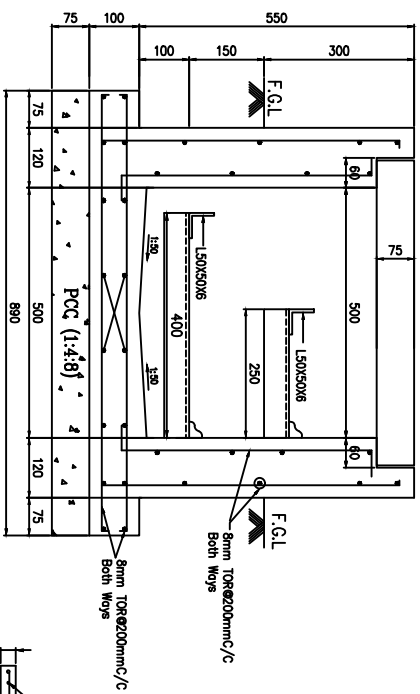
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

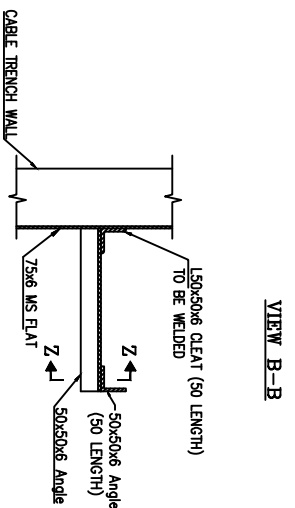
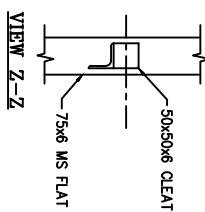
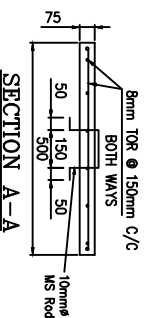
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: STRUT ARRANGEMENT

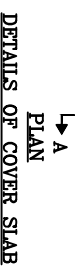
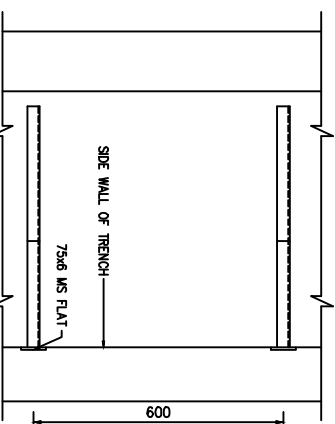
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	COMMON FOR ALL PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
80						A3	NTS	REC/RDSS/GEN/10	1 OF 1	0



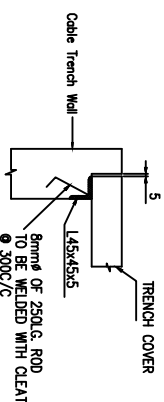
VIEW B-B



TYP. CABLE SUPPORT



DETAILS OF COVER SLAB



TYPICAL DETAILS OF SLAB SUPPORT

NOTES :-

- 1) ALL DIMENSIONS ARE IN MM.
- 2) M20 GRADE CONCRETE SHALL BE USED.
- 3) STEEL FE 415 GRADE SHALL BE USED.
- 4) CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE 25 MM
- 5) SLOPE IN TRENCH ALONG THE RUN OF TRENCH SHALL BE IN 1:500

FOR TENDER PURPOSE ONLY



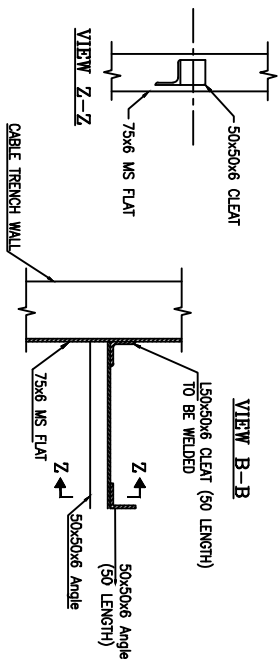
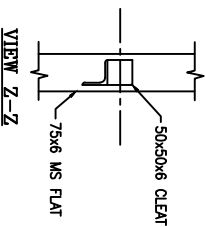
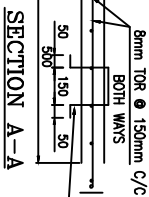
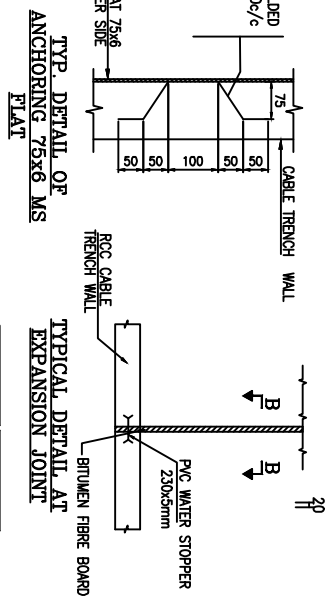
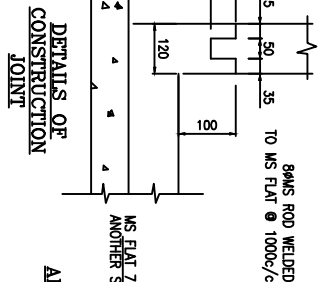
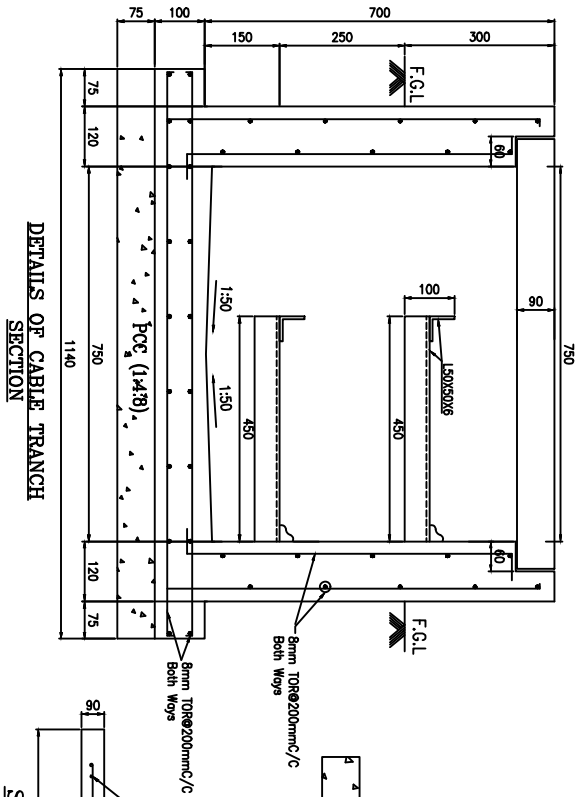
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DETAILS OF 500MM WIDE CABLE TRENCH

REV. NO.	PREPARED	CHECKED/APPROVED	DATE	PROJECT
R0				

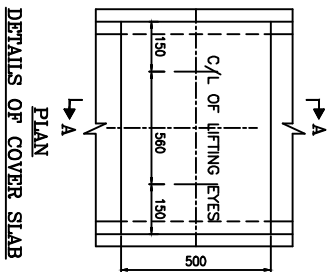
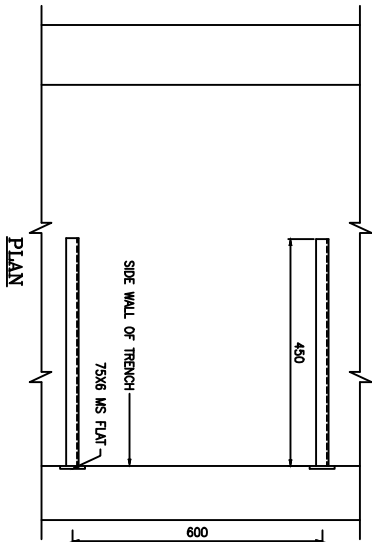
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/ RDSS /GEN/11A	1 OF 1	0



TYP. CABLE SUPPORT

NOTES :-

- 1) ALL DIMENSIONS ARE IN MM.
- 2) M20 GRADE CONCRETE SHALL BE USED.
- 3) STEEL FE 415 GRADE SHALL BE USED.
- 4) CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE 25 MM
- 5) SLOPE IN TRENCH ALONG THE RUN OF TRENCH SHALL BE IN 1:500



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

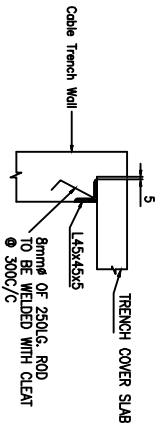
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

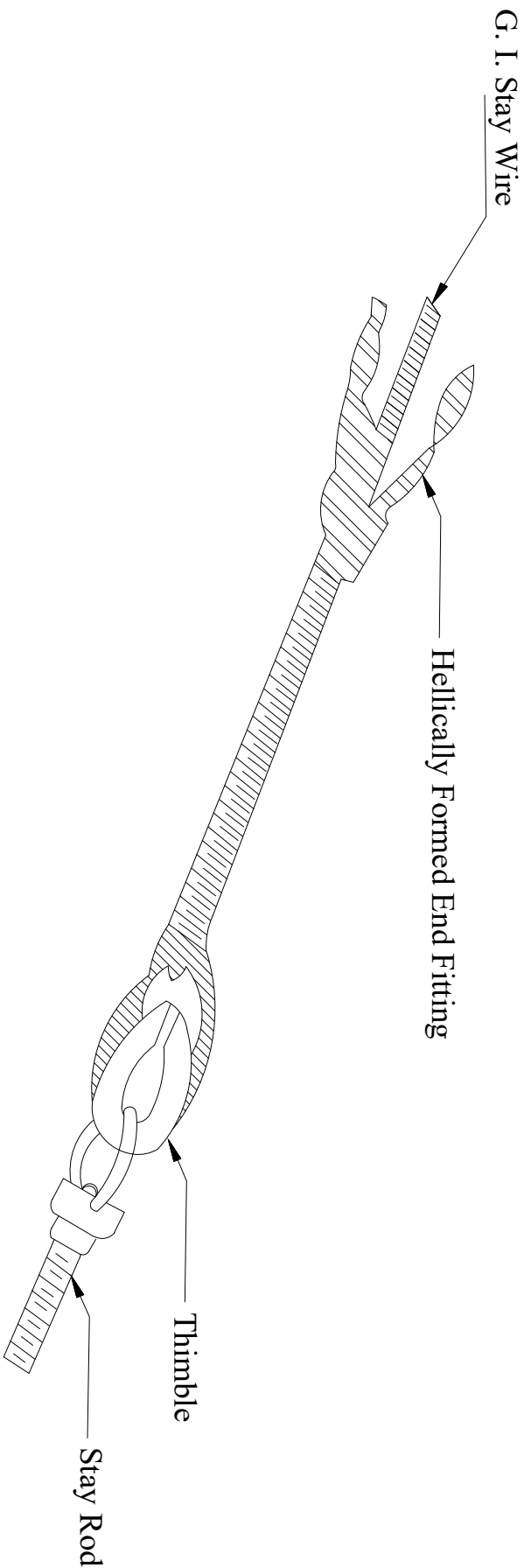
DETAILS OF 750MM WIDE CABLE TRENCH

TYPICAL DETAILS OF SLAB SUPPORT



R0	PREPARED	CHECKED/APPROVED	DATE	PROJECT
REV. NO.				

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/ RDSS /GEN/11B	1 OF 1	0



NOTE: FOR DETAILS OF HELLICALLY FORMED GUY GRIPS REFER REC SPECIFICATION NO. 25/1983

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Guy -End Assembly
(Using Hellically Formed Fitting)

R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	
A3	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
NTS			REC/RDSS/GEN/12	1 OF 1	0	

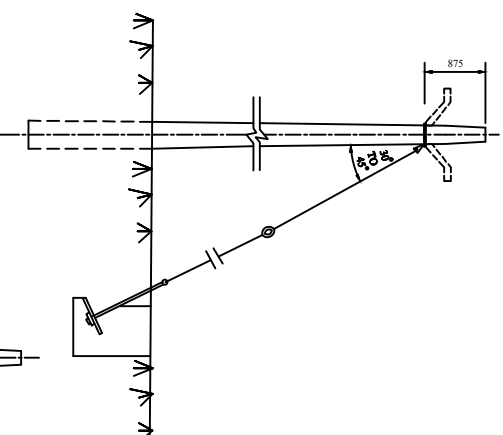


FIG :- 1

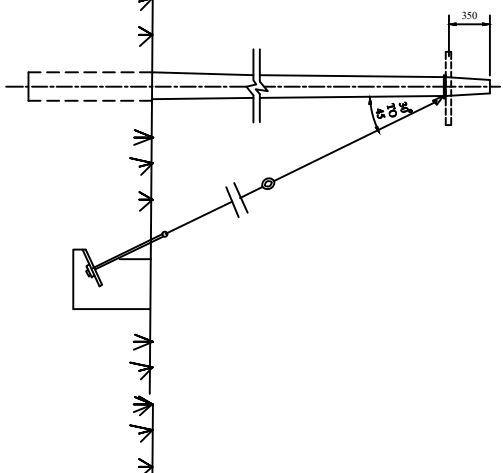


FIG :- 2
SINGLE GUY

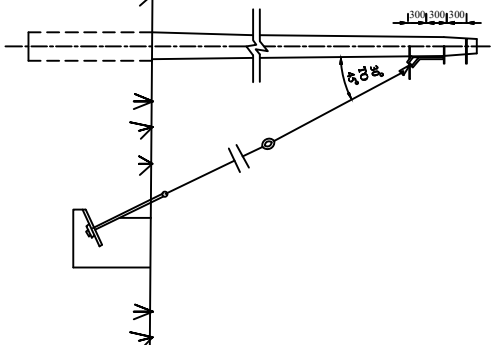
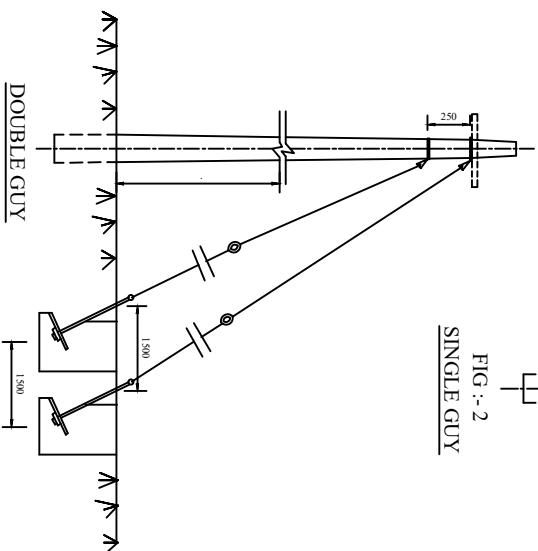


FIG :- 3



DOUBLE GUY

NOTES :-

1. SINGLE GUY ARRANGEMENT AS PER FIGURE 1, 2 & 3 CAN BE USED WHEN TOTAL TENSION TO BE TAKEN ON THE GUY DOES NOT EXCEED THE FOLLOWING LIMITS

2. IN THE DURABLE GUY ARRANGEMENT THE FOUNDATION OF THE GUYS SHOULD BE SO PLACED THAT ONE DOES NOT REDUCE THE STRENGTH OF THE OTHER. IN OTHER WORDS, THE SOIL WHICH RESISTS THE UP - LIFT SHOULD NOT BE DISTURBED WHILE DIGGING THE FOUNDATION FOR THE OTHER STAY.

3. FOR DETAILS OF COMPONENTS OF GUY ASSEMBLY, REFER, G - 1.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

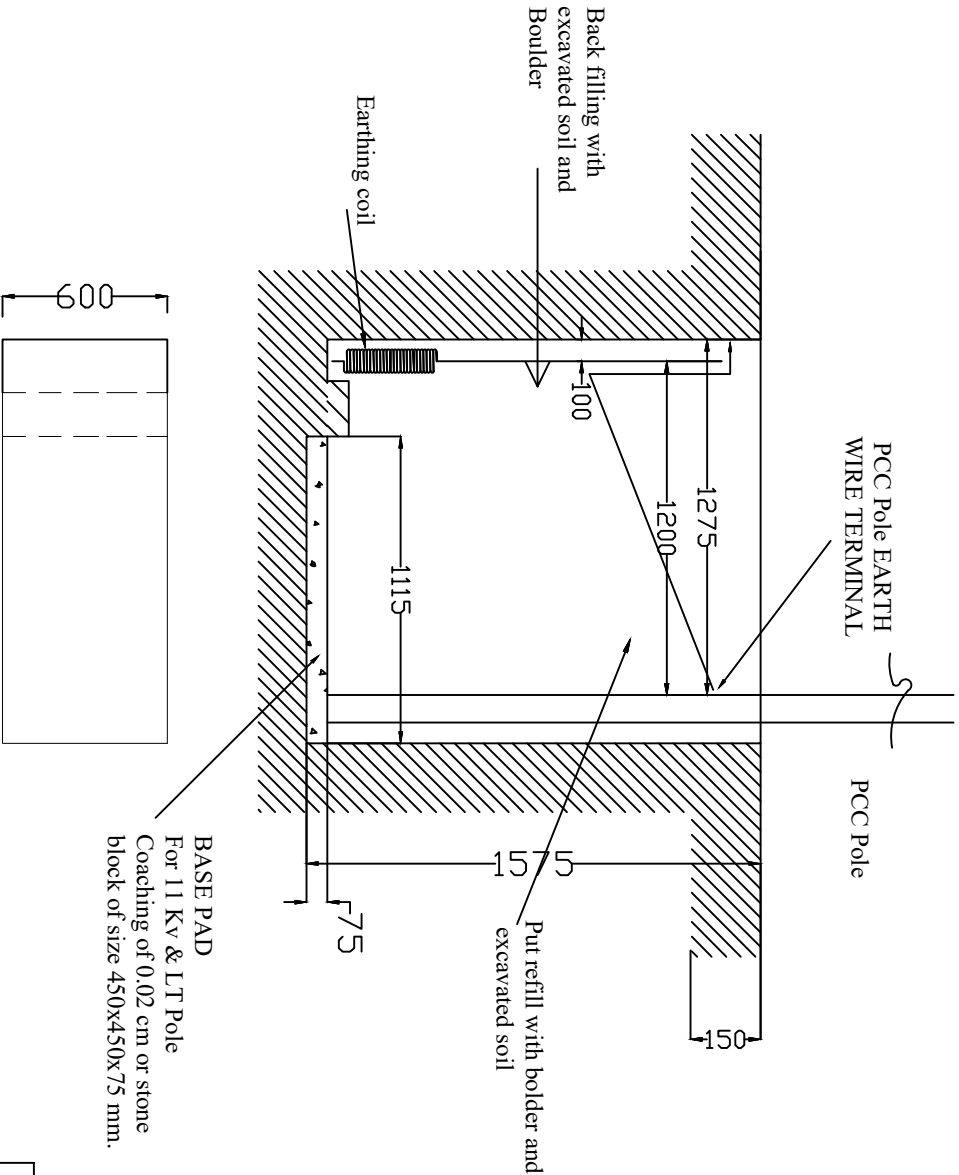
Revamped Distribution Sector Scheme (RDSS)

TITLE

Guying Arrangement Single & Double Guy

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/GEN/13	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

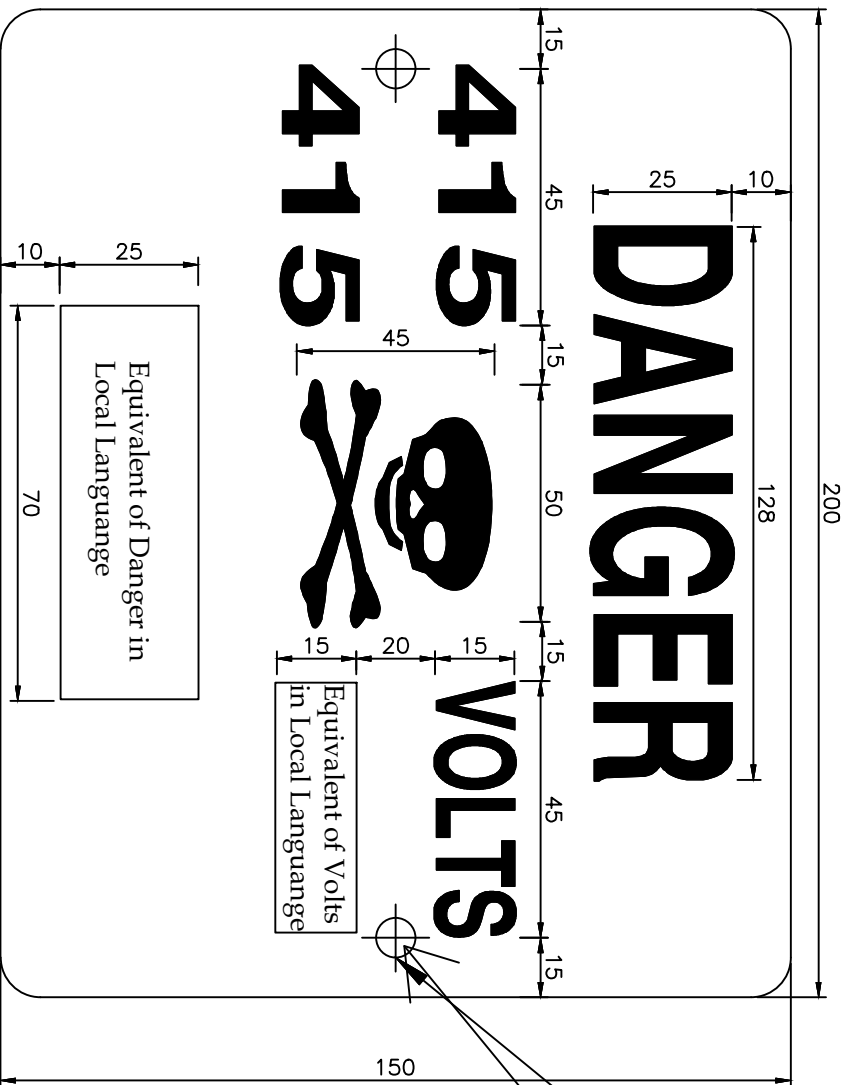
Revamped Distribution Sector Scheme (RDSS)

TITLE

DRAWING FOR POLE PTT FOR PCC POLE FOR NORMAL SOIL

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/GEN/15	1 OF 1	0



All Dimensions are in mm unless otherwise mentioned

FOR TENDER PURPOSE ONLY

NOTES:-

- 1) THE PLATE SHALL BE MADE FROM M.S. SHEET OF ATLEAST 1.6mm THICKNESS & VITREOUS ENAMELED WHITE WITH LETTERS, FIGURES & THE CONVENTIONAL SKULL & BONES IN SIGNAL RED COLOUR ON THE FRONT SIDE(S 5-1978). THE REAR SIDE OF THE PLATE SHALL ALSO BE ENAMELED.
- 2) ALL LETTERING SHOULD BE CENTRALLY SPACED.
- 3) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 4) MANUFACTURING TOLERANCE AS FOLLOWS
UP TO 50mm : $\pm 5\%$
51 TO 100mm : $\pm 4\%$
101 TO 300mm : $\pm 3\%$
ABOVE 300mm : $\pm 2\%$

HOLES $\varnothing 10\text{MM}$



Rural Electrification Corporation Ltd.

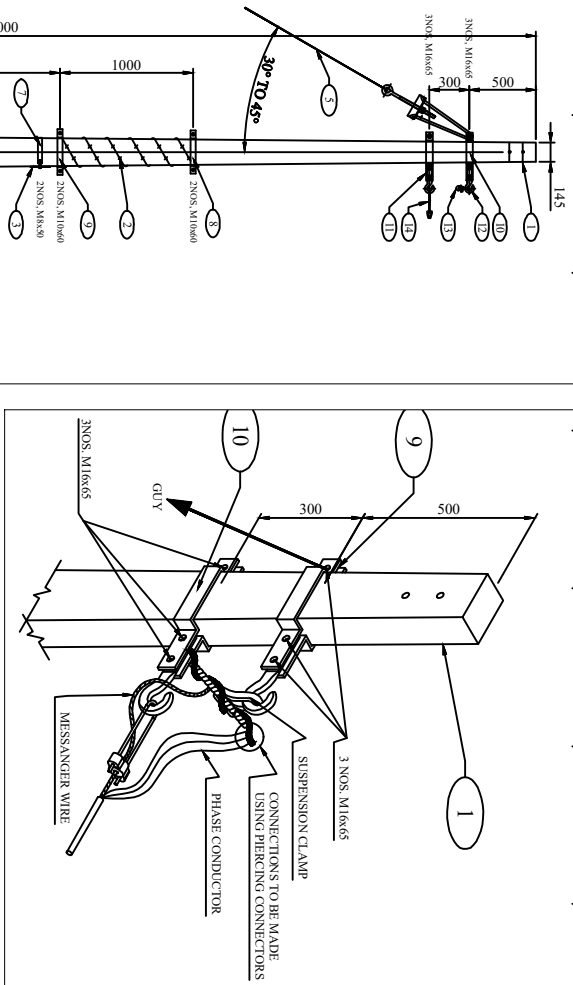
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

433V DANGER BOARD

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/LT-OH/01	1 OF 1	0	

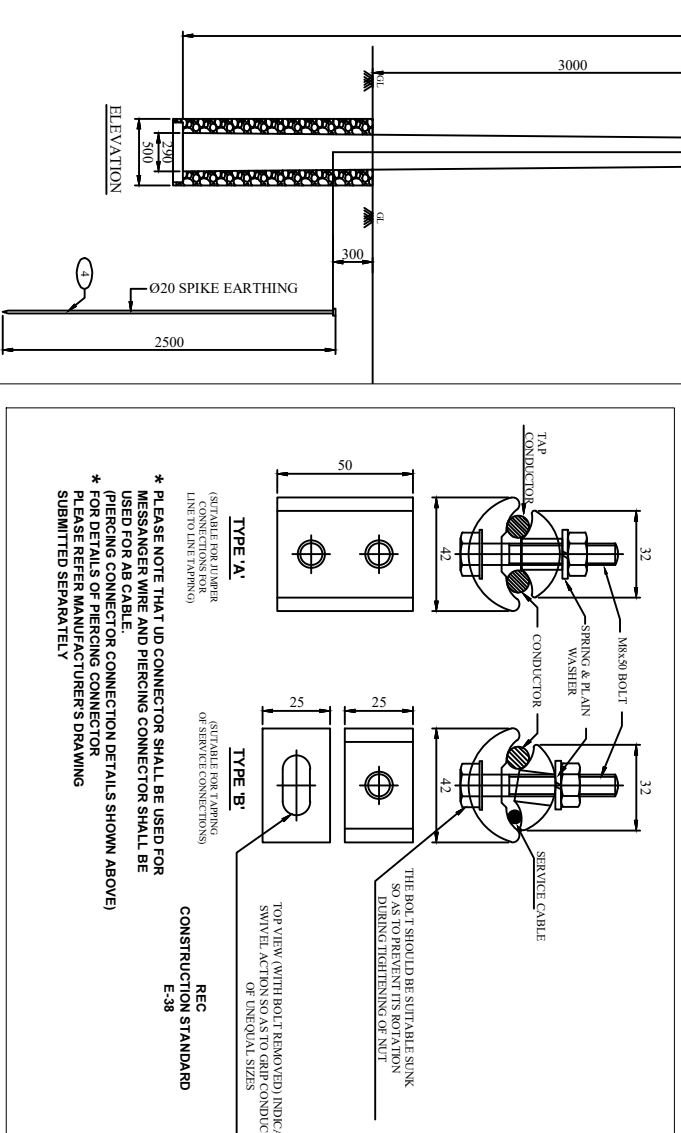


BILL OF MATERIAL			
SER. NO.	DESC.	QTY.	REF. DRG. NO.
1	8m 200Kg. PSC POLE	1 NO.	REC-XI Plan-GEN-001A
2	BARBED WIRE	3.5 MTR	
3	43KV DANGER BOARD	1 NO.	REC-XII Plan-LT-016
4	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
5	STAY SET ARRANGEMENT	1 SET	
6	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-015 (SHT-2)
7	TOP CLAMP TOP ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-015 (SHT-2)
8	BOTTOM CLAMP TOP ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-015 (SHT-2)
9	CLAMP FOR EYE HOOK	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
10	CLAMP FOR EYE HOOK	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
11	EYE HOOK	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
12	SUSPENSION CLAMP	1 SET	REC-XII Plan-LT-015 (SHT-2)
13	DEAD-END CLAMP	1 SET	REC-XII Plan-LT-015 (SHT-2)
	NUTS & BOLTS	AS REQD.	REC-XII Plan-LT-015 (SHT-2)

NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) MANUFACTURING TOLERANCE AS FOLLOWS
UP TO 50mm : $\pm 5\%$
51 TO 100mm : $\pm 4\%$
101 TO 300mm : $\pm 3\%$
ABOVE 300mm : $\pm 2\%$
- 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759.
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- 7) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS:Sp6 PART-1

FOR TENDER PURPOSE ONLY



- TYPE 'A'**
(SUITABLE FOR JUMPER CONNECTIONS FOR LINE TO LINE TAPPING)
- TYPE 'B'**
(SUITABLE FOR TAPPING OF SERVICE CONNECTIONS)
- REC CONSTRUCTION STANDARD E-38**
- * PLEASE NOTE THAT UP CONNECTOR SHALL BE USED FOR MESSANGER WIRE AND PIERCING CONNECTOR SHALL BE USED FOR AB CABLE.
* (PIERCING CONNECTOR CONNECTION DETAILS SHOWN ABOVE)
* PLEASE REFER MANUFACTURER'S DRAWING SUBMITTED SEPARATELY

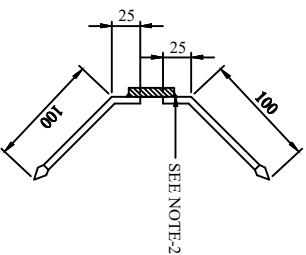
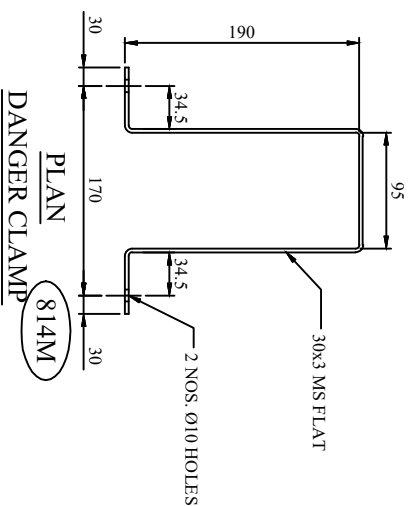
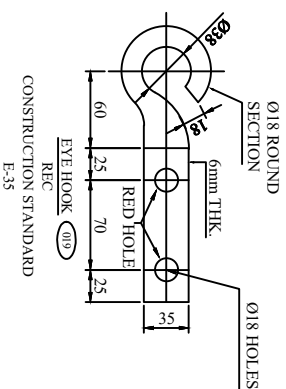
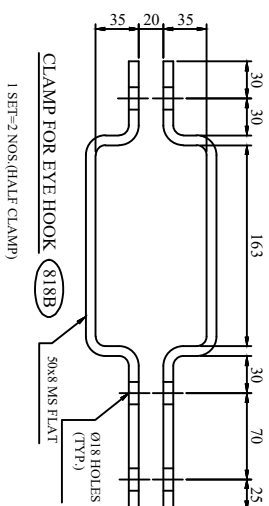
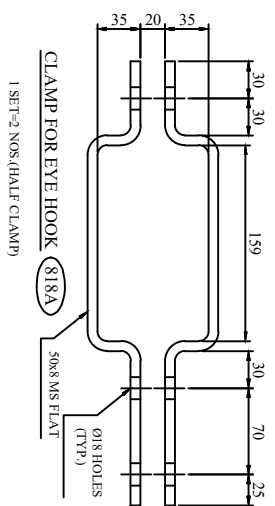
REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGN	CHKD.	CLEARED BY	APPD.	DATE
R0								
REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGN	CHKD.	CLEARED BY	APPD.	DATE
A3		REC/RDSS/LT-OH/02A						

REC Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: GA & COMPONENT DETAILS OF AB CABLE CONNECTIONS AND TAPPING ARRANGEMENT

SCALE	DRG. NO.	REV. NO.
NTS		0
SIZE	REC/RDSS/LT-OH/02A	SHT. NO. 1 OF 2

[illegible][illegible]

- NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
 - 2) MANUFACTURING TOLERANCE AS FOLLOWS

UP TO 50mm	: ±5%
51 TO 100mm	: ±4%
101 TO 300mm	: ±3%
ABOVE 300mm	: ±2%
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759.
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 7) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS:576 PART-1.
- ALL CHANNELS SHALL BE ISJC CHANNELS.

FOR TENDER PURPOSE ONLY

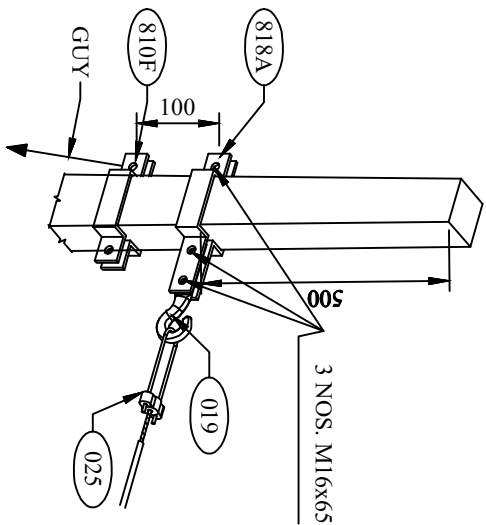


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

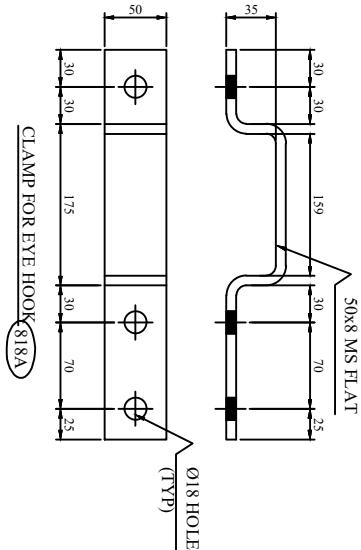
GA & COMPONENT DETAILS OF AB CABLE CONNECTIONS AND TAPPING ARRANGEMENT

							DATE		SCALE	VENDOR DRG. NO.	REV. NO.
							NTS		0		
							SIZE		DRG. NO.		
							A3		REC/RDSS/LT-OH/02B		
REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGN	CHKD.	CHECKED BY	APPROVED	DATE	SHT. NO.		
									2 OF 2		

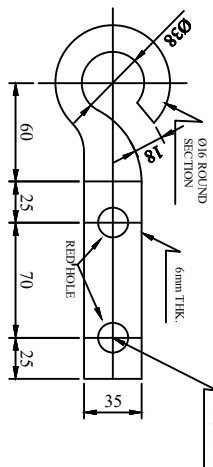


3 NOS. M16x65

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE:
UP TO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE ONLY.
 - 7) ALL CHANNELS SHALL BE ISLC CHANNELS.

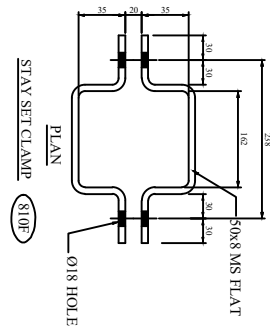


CLAMP FOR EYE HOOK (818A)

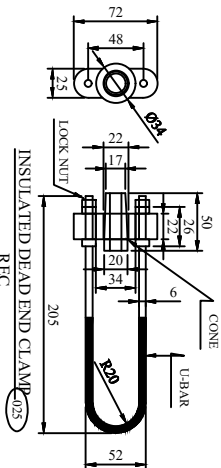


EYE HOOK (019)

REC
CONSTRUCTION STANDARD
E-35



STAY SET CLAMP (810F)



INSULATED DEAD END CLAMP (025)
REC
CONSTRUCTION STANDARD
E-35

ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	962006 PSC POLE	1 NO.	REC-XII Pma-GND-01/A
003	BARBED WIRE	3.5 MTRS	
022	433V DANGER BOARD	1 NO.	REC-XII Pma-GND-01/A
005	SPRINT LAMPING	1 SET	REC-XII Pma-GND-01/A
008	STAY SET ARRANGEMENT	1 SET	REC-XII Pma-GND-01/A
810F	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Pma-GND-01/A
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Pma-GND-01/A
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Pma-GND-01/A
810F	CLAMP FOR STAY SET	1 SET	REC-XII Pma-GND-01/A
818A	CLAMP FOR EYE HOOK	1 SET	REC-XII Pma-GND-01/A
019	EYE HOOK	1 NO.	
025	DEAD END CLAMP	1 NO.	
	NUTS & BOLTS	AS REQD	REC-XII Pma-GND-01/A

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./MT.	QTY.	TOTAL WT. KG.
810F	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.201	1 NO.	0.20
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395	1.60	2 NOS.	3.20
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413	1.60	2 NOS.	3.20
810F	CLAMP FOR STAY SET	30x4	M.S.	368	3.14	2 NOS.	6.28
	SPRINT	6mm Ø10	M.S.	125	0.22	36 NOS.	7.92
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14	2 NOS.	6.28
019	EYE HOOK					1 NO.	
025	DEAD END CLAMP					1 NO.	
	NUTS & BOLTS	M16		65	0.1046 GNO.	2 NOS.	0.21
	NUTS & BOLTS	M10		60	0.0586 GNO.	4 NOS.	0.23
	NUTS & BOLTS	M8		60	0.0362 GNO.	2 NOS.	0.07
	SPRING WASHERS	M16		3.5 THK.	0.0908 GNO.	5 NOS.	0.45
	SPRING WASHERS	M10		3.5 THK.	0.0303 GNO.	4 NOS.	0.12
	SPRING WASHERS	M8		3.5 THK.	0.0206 GNO.	2 NOS.	0.04
	PLAIN WASHER	M16		3 THK.	0.0158 GNO.	3 NOS.	0.05
	PLAIN WASHER	M10		3 THK.	0.0082 GNO.	4 NOS.	0.03
	PLAIN WASHER	M8		3 THK.	0.0046 GNO.	2 NOS.	0.01
	TOTAL						10.91

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

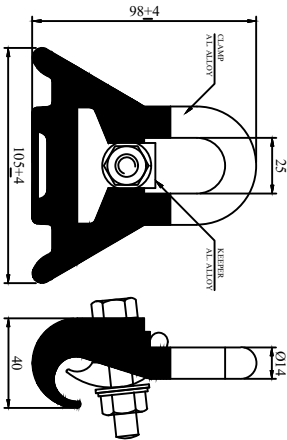
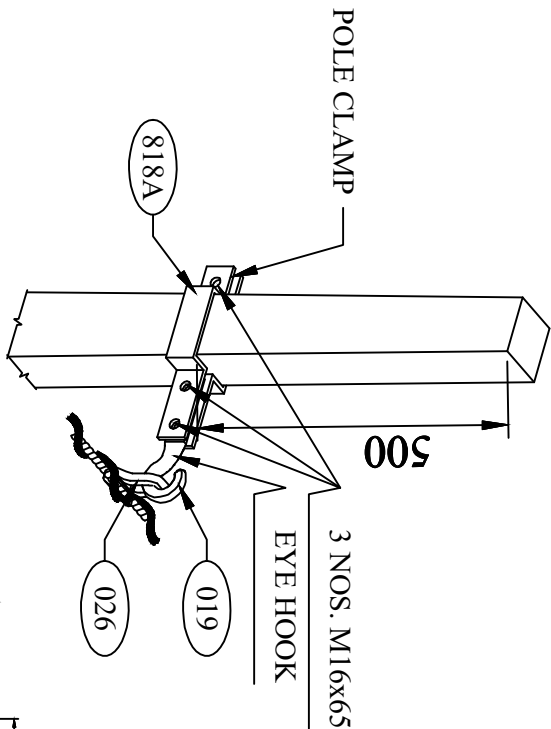
TITLE: GA OF LT LINE FORMATION ON SINGLE 8M/200 KG PSC POLE (DEAD END) WITH LT AB CABLE

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-OH/03	1 OF 1	0

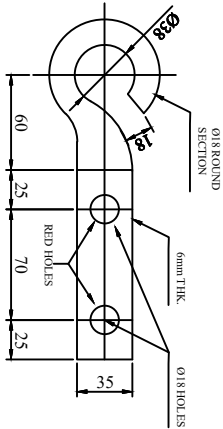
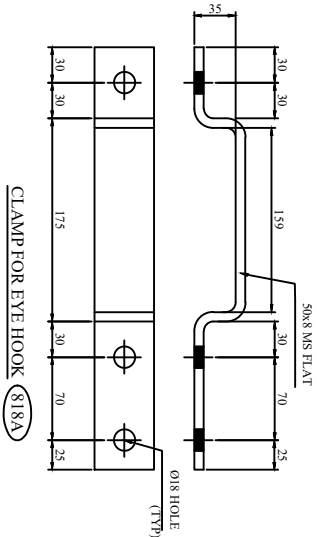
REV. NO.	PREPARED BY	CHECKED BY	DATE	PROJECT
R0				

BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	8m 200Kg PSC POLE	1 NO.	REC-XII Plan-GRN-001A
2	BARBED WIRE	3.5 MTR.	
3	43IV DANGER BOARD	1 NO.	
4	SPIKE EARTHING	1 SET	REC-XII Plan-GRN-012
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-001
817	BOTTOM CLAMP TOP ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-001
818A	CLAMP FOR EYE HOOK	1 NO.	REC-XII Plan-LT-013
019	EYE HOOK	1 NO.	REC-XII Plan-LT-013
026	SUSPENSION CLAMP	1 NO.	REC-XII Plan-LT-013
	NUTS & BOLTS	AS REQD.	

BILL OF MATERIAL					
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.
814M	CLAMP FOR DANGER BOARD	3x6.3	M.S.	610	0.701
816	TOP CLAMP FOR ANTI CLAMP DEVICE	4x6.5	M.S.	395	1.60
817	BOTTOM CLAMP FOR ANTI CLAMP DEVICE	4x6.5	M.S.	413	1.60
	SPIKE	6mm ROD	M.S.	125	0.22
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14
019	EYE HOOK				
026	SUSPENSION CLAMP				
	NUTS & BOLTS	M16		65	0.164KG/NO.
	NUTS & BOLTS	M10		60	0.055KG/NO.
	NUTS & BOLTS	M8		60	0.03KG/NO.
	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.
	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.
	SPRING WASHERS	M8		3.5 THK.	0.002KG/NO.
	PLAIN WASHER	M16		3 THK.	0.015KG/NO.
	PLAIN WASHER	M10		3 THK.	0.009KG/NO.
	PLAIN WASHER	M8		3 THK.	0.004KG/NO.
	TOTAL				8.254



* SUSPENSION CLAMP (026)
FOR DETAILS OF SUSPENSION CLAMP
PLEASE REFER MANUFACTURER'S DRAWING
SUBMITTED SEPARATELY



REC
CONSTRUCTION STANDARD
E-35

FOR TENDER PURPOSE ONLY



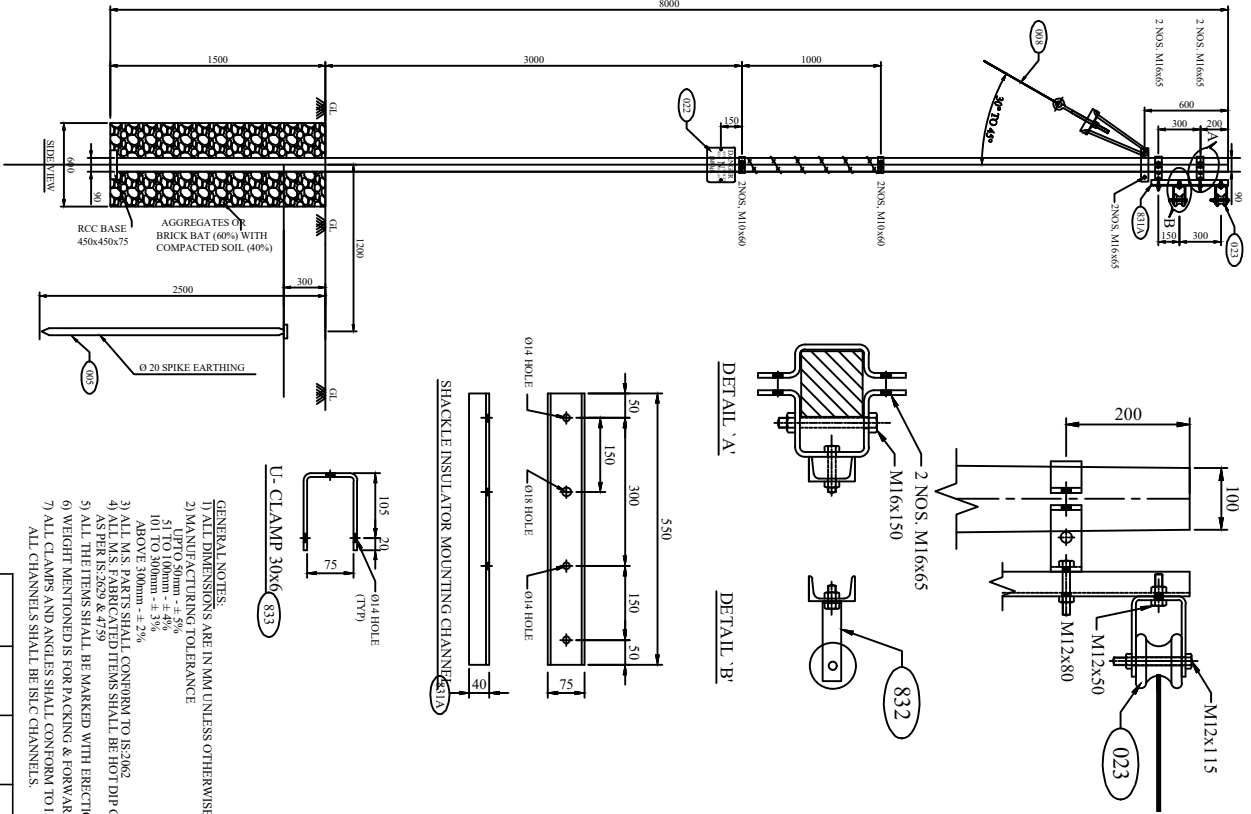
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
G/A OF L/T LINE FORMATION ON SINGLE 8M/200 KG
PSC POLE (IN LINE ARRANGEMENT) WITH LT AB CABLE

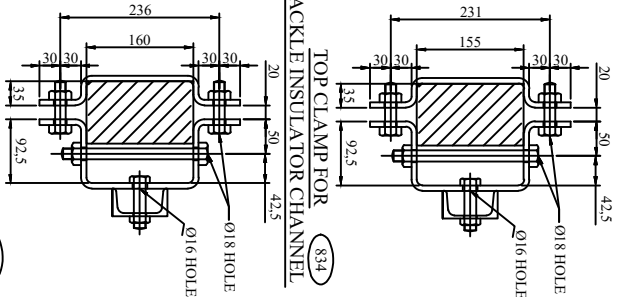
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RD					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
AS MTS	REC/RDSS/LT-OH/04	1 OF 1	0		

without the written permission

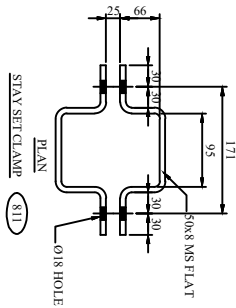


- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) MANUFACTURING TOLERANCE
UP TO 50mm - ± 5%
51 TO 100mm - ± 3%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 2%
 - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANIZED AS PER IS:2623 & 4759
 - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1.
- ALL CHANNELS SHALL BE ISLC CHANNELS.

SHACKLE INSULATOR CHANNEL



SHACKLE INSULATOR CHANNEL



BILL OF MATERIAL					
ERT CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
8140	SHACKLE INSULATOR MOUNTING CHANNEL	75x60	M.S.	590	1.90
8141	CLAMP FOR DANGER BOARD	20x3	M.S.	600	0.30
8142	TOY CLAMP FOR ANTICLIMBING DEVICE	40x3	M.S.	390	1.60
8143	BOTTOM CLAMP FOR ANTICLIMBING DEVICE	40x3	M.S.	410	1.60
8144	CLAMP FOR STAY SET	30x8	M.S.	350	3.14
8145	TOP CLAMP FOR SHACKLE INSULATOR CHANNEL	30x8	M.S.	407	1.14
8146	BOTTOM CLAMP FOR SHACKLE INSULATOR CHANNEL	30x8	M.S.	427	1.14
8147	CLAMP	20x3	M.S.	320	1.40
8148	SHOCK	600x100	M.S.	120	0.22
				TOTAL	16.199

BILL OF MATERIAL					
ERT CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
8149	SHACKLE INSULATOR MOUNTING CHANNEL	75x60	M.S.	590	1.90
8150	CLAMP FOR DANGER BOARD	20x3	M.S.	600	0.30
8151	TOY CLAMP FOR ANTICLIMBING DEVICE	40x3	M.S.	390	1.60
8152	BOTTOM CLAMP FOR ANTICLIMBING DEVICE	40x3	M.S.	410	1.60
8153	CLAMP FOR STAY SET	30x8	M.S.	350	3.14
8154	TOP CLAMP FOR SHACKLE INSULATOR CHANNEL	30x8	M.S.	407	1.14
8155	BOTTOM CLAMP FOR SHACKLE INSULATOR CHANNEL	30x8	M.S.	427	1.14
8156	CLAMP	20x3	M.S.	320	1.40
8157	SHOCK	600x100	M.S.	120	0.22
				TOTAL	16.199

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

GA OF LT LINE VERTICAL FORMATION ON SINGLE 8M/200 KG PSC POLE (AT DEAD END) 1PH, 2WIRE

SIZE SCALE

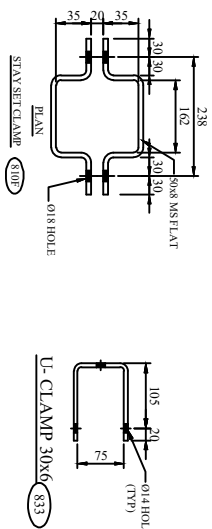
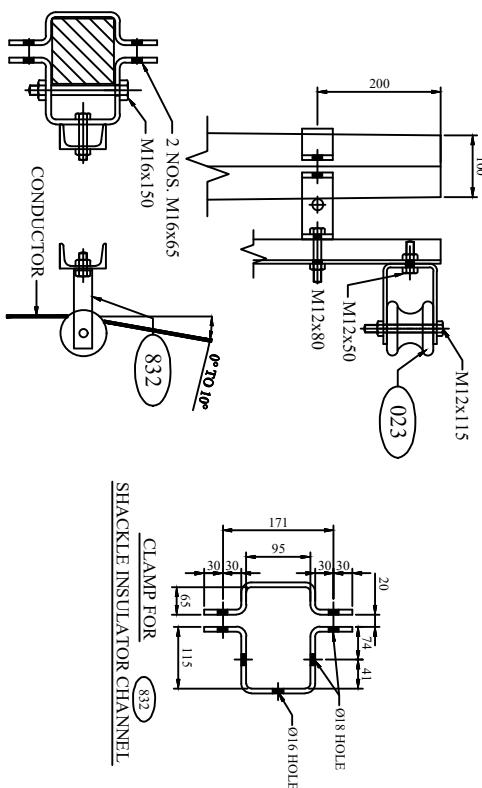
REC/RDSS/LT-OH/05

SHT. NO. 1 OF 1

REV. NO. 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE
RD				

PROJECT



BILL OF MATERIAL						
ITEM CODE	DESCRIPTION	MATERIAL	LENGTH MM	KG/mtr.	QTY.	TOTAL WT. KG.
810A	SINGLE INSULATOR MOUNTING CHANNEL	75640	MS	59	5.7	1.80
810B	CLAMP FOR HANGER BOARD	7063	MS	60	0.70	1.80
816	TOP CLAMP FOR ANT CLIMBING DEVICE	4645	MS	395	1.60	2.805
817	BOTTOM CLAMP FOR ANT CLIMBING DEVICE	4645	MS	415	1.60	2.805
810F	CLAMP FOR STUD SET	5064	MS	368	3.14	2.805
832	CLAMP FOR SINGLE INSULATOR CHANNEL	5064	MS	322	3.14	2.817
831	UCLAMP	5064	MS	325	1.415	2.805
830B	INNER ROD	MS	125	0.22	56.808	1.260
TOTAL						16.081

	DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL WT. KG.
NUTS & BOLTS	NUTS & BOLTS	M16		150	0.299	2N065	0.598
	NUTS & BOLTS	M16		65	0.164	6N065	0.984
	NUTS & BOLTS	M12		115	0.114	2N065	0.228
	NUTS & BOLTS	M12		80	0.102	2N065	0.204
	NUTS & BOLTS	M12		50	0.075	2N065	0.150
	NUTS & BOLTS	M10		60	0.055	4N065	0.220
	NUTS & BOLTS	M8		60	0.030	2N065	0.120
	NUTS & BOLTS	M6		60	0.020	2N065	0.080
SPRING WASHERS	SPRING WASHERS	M16		3.5 THIK.	0.099	8N065	0.072
	SPRING WASHERS	M12		3.5 THIK.	0.069	6N065	0.054
	SPRING WASHERS	M10		3.5 THIK.	0.061	4N065	0.042
	SPRING WASHERS	M8		3.5 THIK.	0.021	2N065	0.004
	SPRING WASHERS	M6		3 THIK.	0.015	8N065	0.120
	PLAIN WASHER	M12		3 THIK.	0.035	6N065	0.099
	PLAIN WASHER	M10		3 THIK.	0.031	4N065	0.020
	PLAIN WASHER	M8		3 THIK.	0.034	2N065	0.090
TOTAL						2,976	



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REC

Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

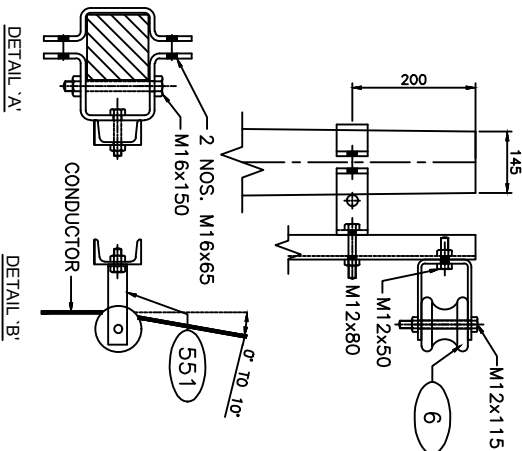
TITLE
GA OF LT LINE VERTICAL FORMATION ON SINGLE 8M/200 KG PSC POLE (AT ANGULAR LOCATION) 1Ph, 2WIRE

					SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						REC/RDSS/LT-OH/06	1 OF 1	0
REV. NO.	CHECKED	APPROVED	DATE		PROJECT			

BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	8m/200kg. PSC POLE	1 NO.	REC-XII Plan-GEN-001A
003	BARBED WIRE	3.5 MTR	
005	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
006	415V DANGER BOARD	1 NO.	
008	LT SHACKLE INSULATOR (TYPE-1)	2 NOS.	
831A	SHACKLE INSULATOR MOUNTING CHANNEL	1 NO.	REC-XII Plan-LT-010
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-010
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-010
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-010
832	TOP CLAMP FOR SHACKLE INSULATOR CHANNEL	1 SET	REC-XII Plan-LT-010
833	U-CLAMP FOR SHACKLE INSULATOR	2 NOS.	REC-XII Plan-LT-010

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE
UPTO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
- 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-I.



FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.



PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE GA OF LT LINE VERTICAL FORMATION ON SINGLE

8M/200 KG PSC POLE (ON LINE ARRANGEMENT) 1Ph, 2WIRE

SIZE/SCALE DRG. NO.

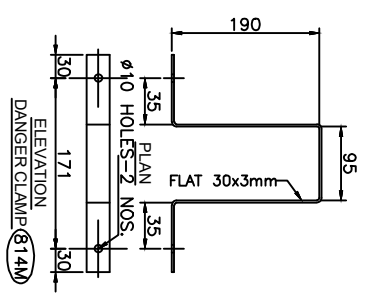
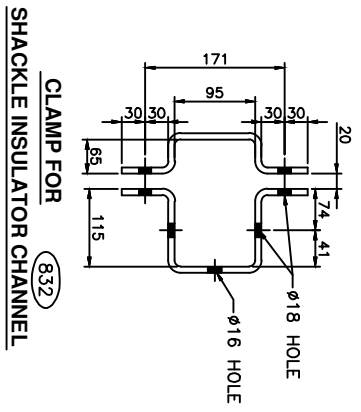
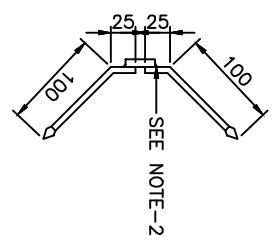
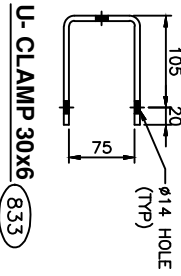
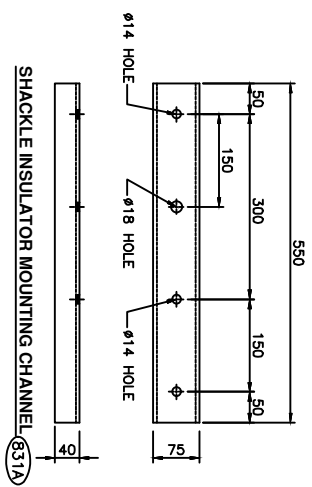
AS MTS

REC/RDSS/LT-OH/07A

SHT. NO. REV. NO

1 OF 2 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



BILL OF MATERIAL						
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mt.	QTY.
831A	SHACKLE INSULATOR MOUNTING CHANNEL	75x40	M.S.	550	5.7	1 NOS.
814M	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO.
816	TOP CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	395	1.60	2 NOS.
817	BOTTOM CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	413	1.60	2 NOS.
832	CLAMP FOR SHACKLE INSULATOR CHANNEL	50x8	M.S.	822	3.14	2 SET
833	U-CLAMP	30x6	M.S.	325	1.415	2 NOS.
	SPIKE	6mm ROD	M.S.	125	0.22	56 NOS.
TOTAL						13.771

DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL WT. KG.
NUTS & BOLTS	M16		150	0.299	2 NOS.	0.598
NUTS & BOLTS	M16		65	0.164	4 NOS.	0.656
NUTS & BOLTS	M12		115	0.134	2 NOS.	0.268
NUTS & BOLTS	M12		80	0.102	2 NOS.	0.204
NUTS & BOLTS	M10		50	0.075	2 NOS.	0.150
NUTS & BOLTS	M8		60	0.050	2 NOS.	0.100
SPRING WASHERS	M16		3.5 THK.	0.009	6 NOS.	0.054
SPRING WASHERS	M12		3.5 THK.	0.009	4 NOS.	0.036
SPRING WASHERS	M10		3.5 THK.	0.003	4 NOS.	0.012
SPRING WASHERS	M8		3.5 THK.	0.002	2 NOS.	0.004
PLAIN WASHER	M16		3 THK.	0.015	6 NOS.	0.090
PLAIN WASHER	M12		3 THK.	0.015	6 NOS.	0.090
PLAIN WASHER	M10		3 THK.	0.005	4 NOS.	0.020
PLAIN WASHER	M8		3 THK.	0.004	2 NOS.	0.008
TOTAL						2.600

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE:
UPTO 50mm - ± 5%
51 TO 100mm - ± 4%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 2%
- 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1. ALL CHANNELS SHALL BE IS:JC CHANNELS.

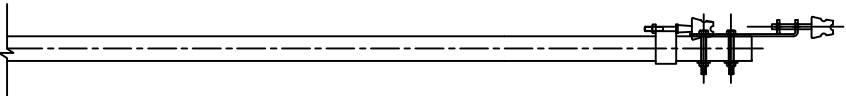
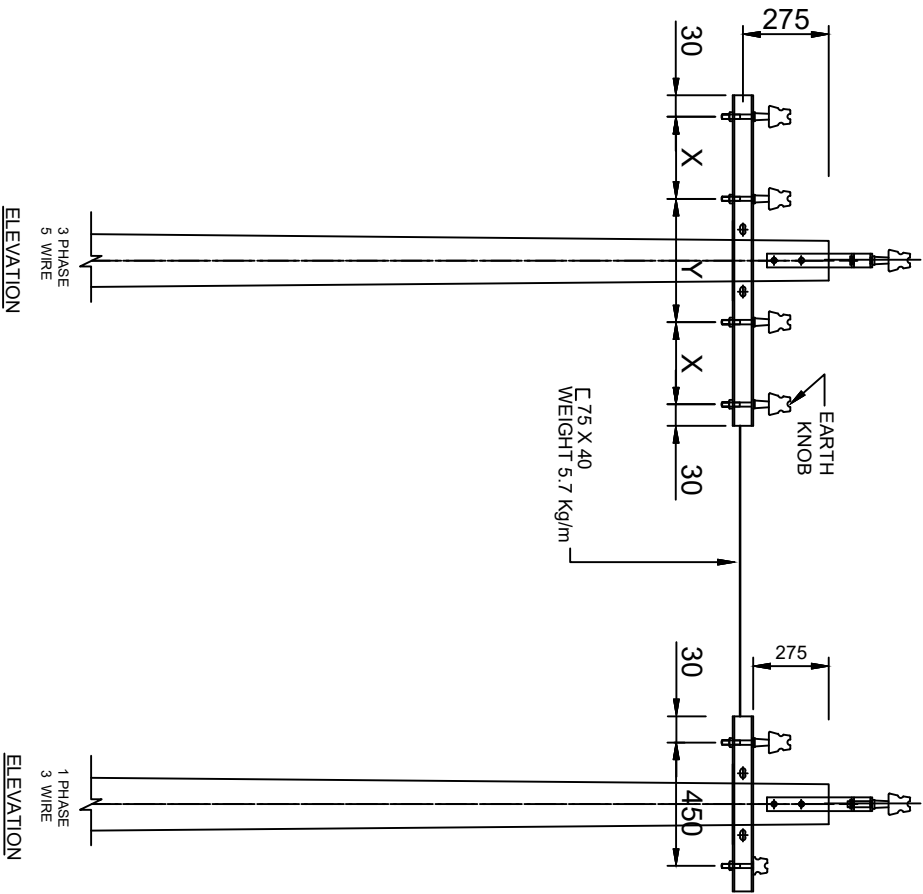
FOR TENDER PURPOSE ONLY

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: COMPONENT FOR LT LINE VERTICAL FORMATION ON SINGLE 8M/200 KG PSC POLE (IN LINE ARRANGEMENT) 1PH, 2WIRE

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/LT-OH/7B	2 OF 2	0		

SAGS	HORIZONTAL SPACING		
	X	Y	
UP TO 750	300	450	
750 TO 1200	450	450	



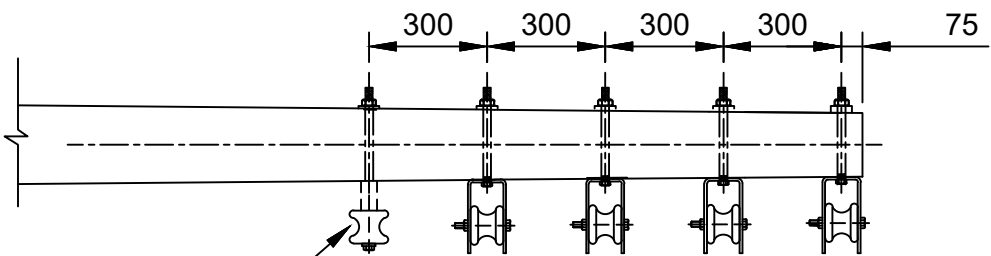
END VIEW

FOR TENDER PURPOSE ONLY

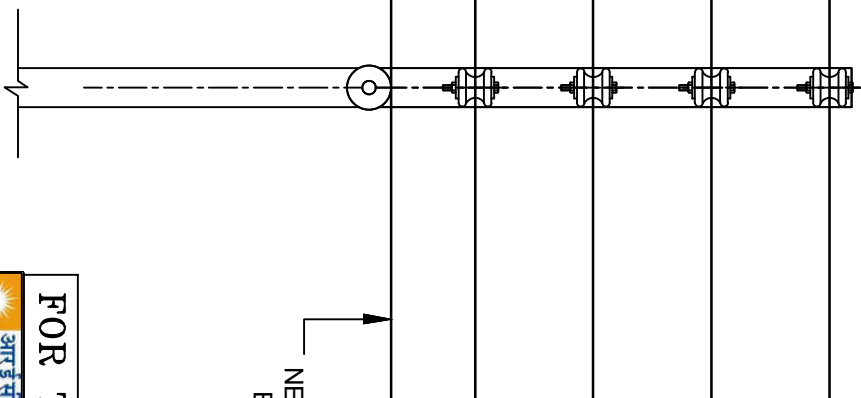
PROJECT: Rural Electrification Corporation Ltd.
Revamped Distribution Sector Scheme (RDSS)

TITLE: 415/240V Conductor Formation and Clearance Horizontal Formation

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-OH/08	1 OF 1	0
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY
DATE	PROJECT		



END VIEW



FOR TENDER PURPOSE ONLY	 आर ई सी REC Rural Electrification Corporation Ltd.
-------------------------	--

Bill of Material	
Supports 7.5 M	1 No.
V-Cross Arm	1 No.
Black Clamp	1 No.
Pole Top Bracket	1 No.
L.T Pin Insulators	4 Nos.
L.T Pin	4 No.
Earth Knob	1 No.
Bolt 10 ϕ	4 No.

Sags	Horizontal Spacing	
	X	Y
UP TO 750	300	450
750 TO 1200	450	450

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE:
415/240V Line Supports Horizontal Formation

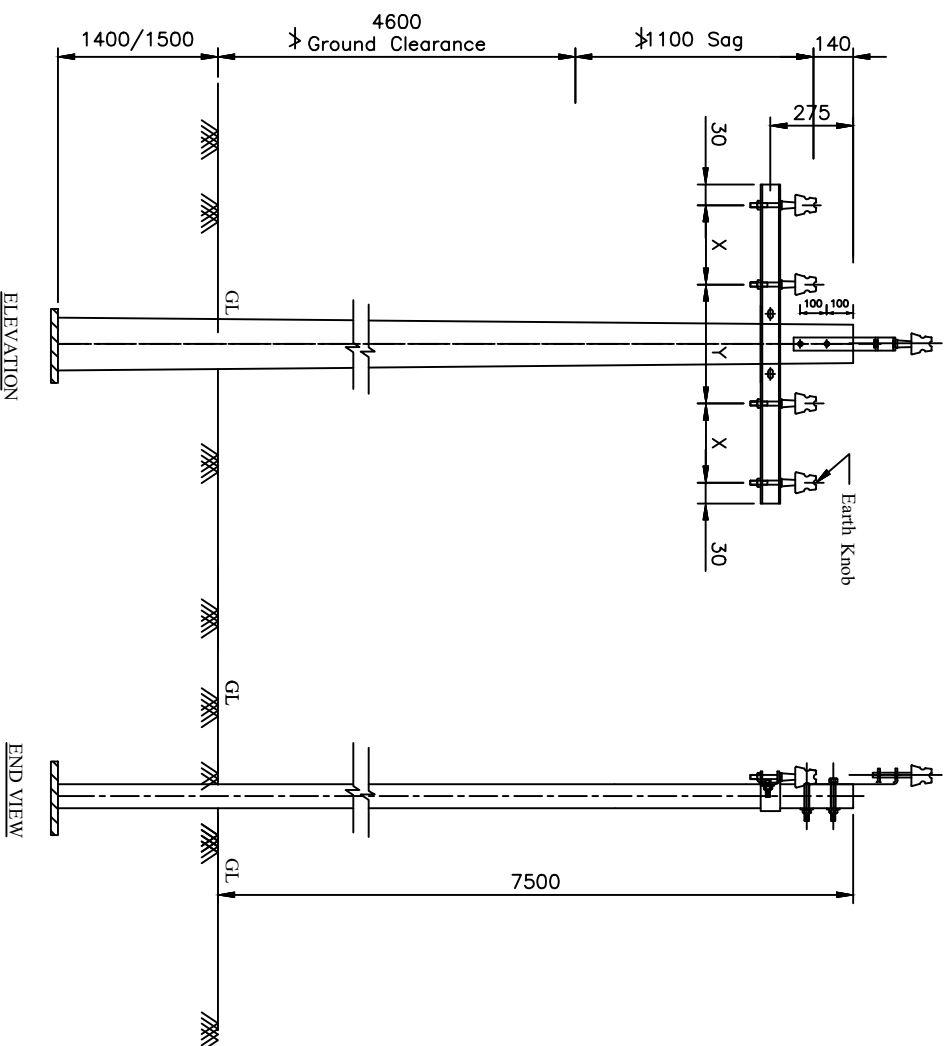
SIZE/SCALE DRG. NO.

A3 NTS REC/RDSS/LT-OH/10

SHT. NO. REV. NO.
1 OF 1 0

Note: All Dimension are in mm.

Tangent Location
Maximum Span-67 Mtr.



REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RO					

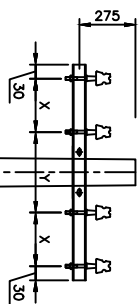


Figure-1

UP TO 40° for 72.11 mm & 72.59 ACSR
UP TO 5° for 72.35 mm ACSR

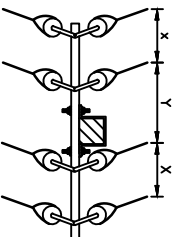
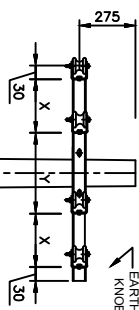


Figure-2
(40° TO 30°)

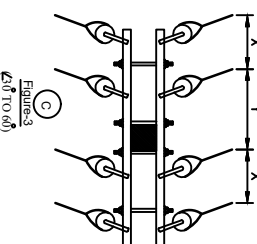
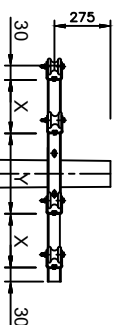


Figure-3
(40° TO 60°)

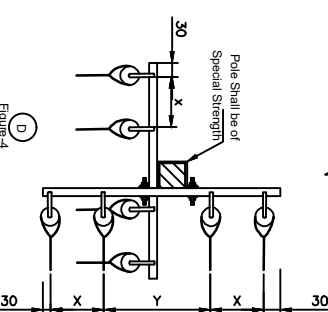
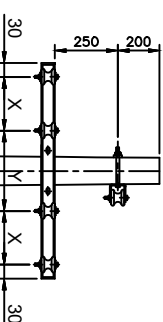


Figure-4
(40° TO 90°)

Horizontal Spacing	
X	Y
300	450

All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

Arrangement of Conductors at Angle Location 415/240 Volts Lines
(Cross Country) Horizontal Formation

SIZE/SCALE DRG. NO.

A3 NTS

REC/RDSS/LT-OH/11

SHT. NO. REV. NO.

1 OF 1

0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RO					

Bill of Material

Supports 7.5 M	1 No.
Cross Arm	1 No.
Black Clamp	1 No.
L.T Pin Insulators	3 Nos.
L.T Pin	3 Nos.
Earth Knob	1 No.
Bolt 16 ϕ with Nuts	2 No.

Sags	Horizontal Spacing	
	X	Y
UP TO 750	300	450
750 TO 1200	450	450

FOR TENDER PURPOSE ONLY

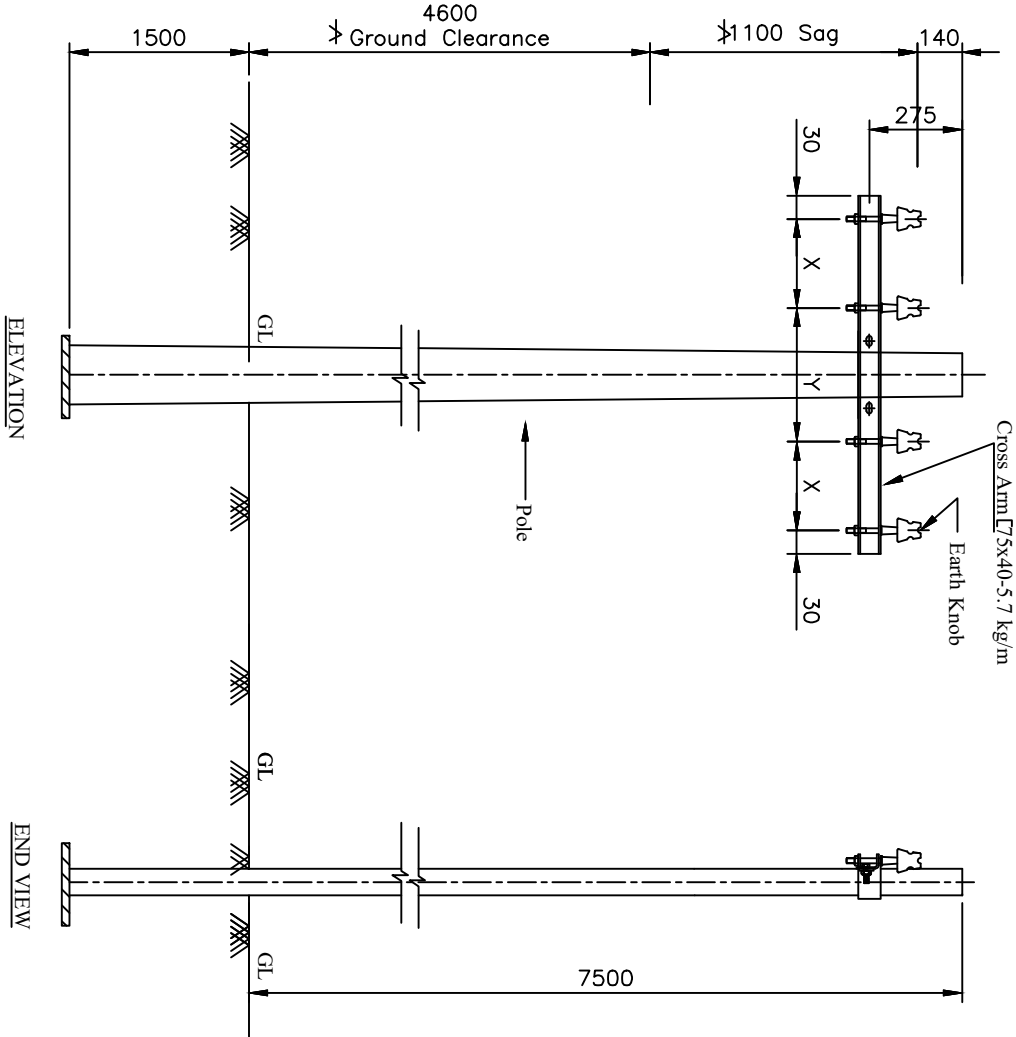


राष्ट्रीय विद्युत निगम
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE: 415/240V Line Conductor Formation And Clearances
3 ϕ .4W (Horizontal Formation)

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/12	1 OF 1	0

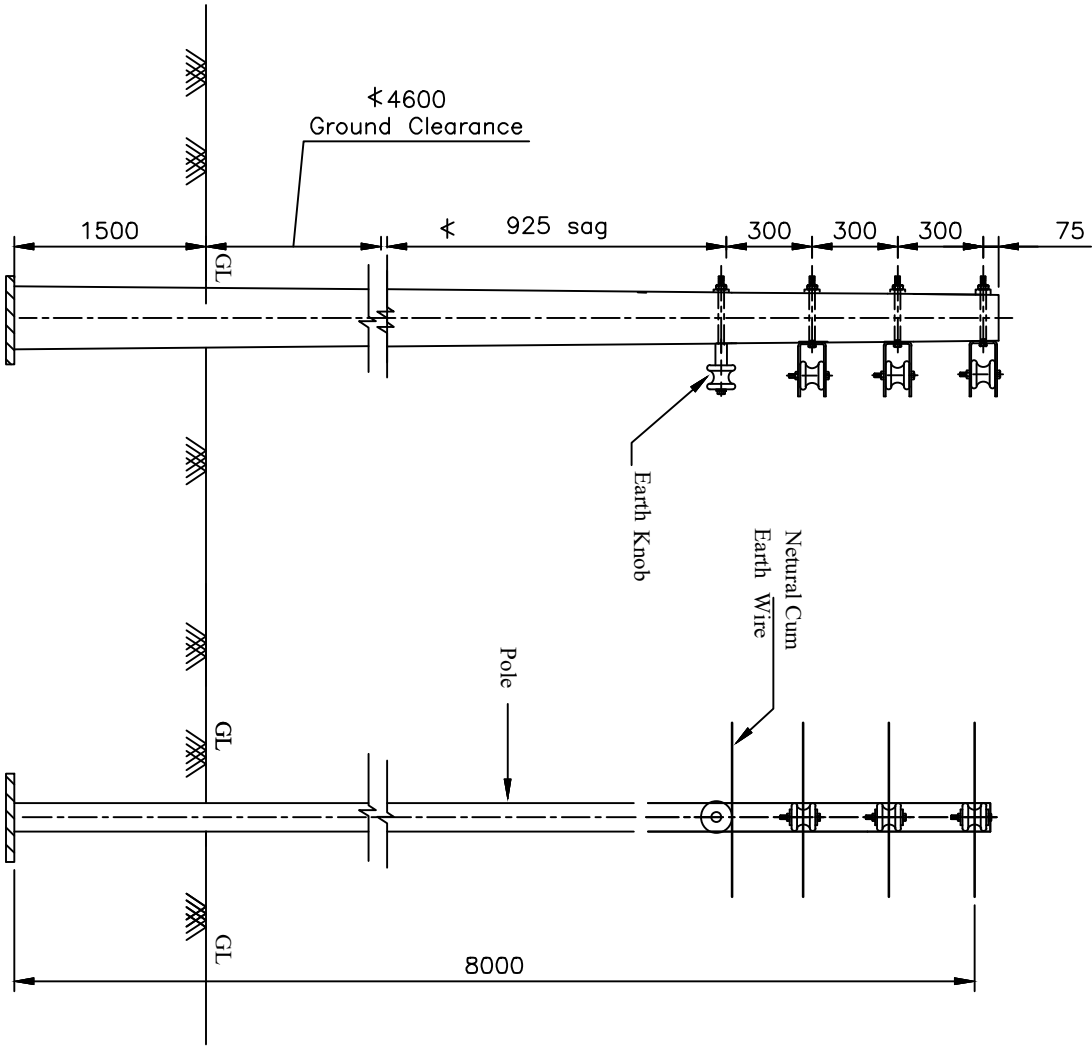


Note:- All Dimension are in mm.

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RO					

Bill of Material

8 M Supports	1 No.
U- Clamp	3 Nos.
Shackle Insulators	3 Nos.
Earth Knob	1 No.
Bolt 16 Ø with Nuts	4 No.



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

415/240V Line Conductor Formation And Clearances
3Ø,4W (Vertical Formation)

SIZE/SCALE

DRG. NO.

A3 NTS

REC/RDSS/LT-OH/13

SHT. NO.

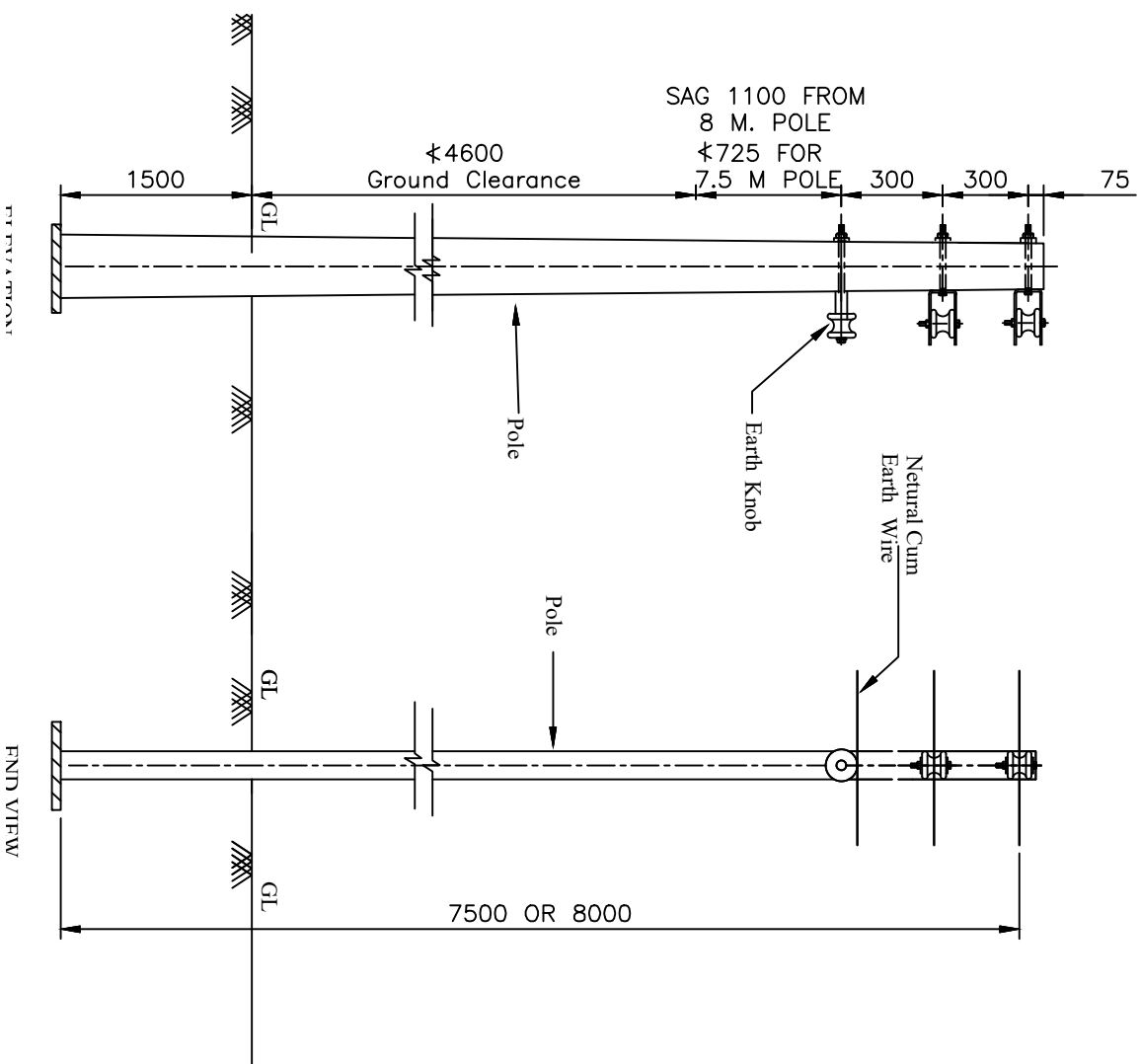
1 OF 1

REV. NO.

0

Note:- All Dimension are in mm.

Bill of Material	
8 M Supports	1 No.
U- Clamp	2 Nos.
Shackle Insulators	2 Nos.
Earth Knob	1 No.
Bolt 16 ϕ with Nuts	3 No.



Note:- All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

415/240V Line Conductor Formation And Clearances
1 ϕ ,3W (Vertical Formation)

SIZE/SCALE

A3 MTS

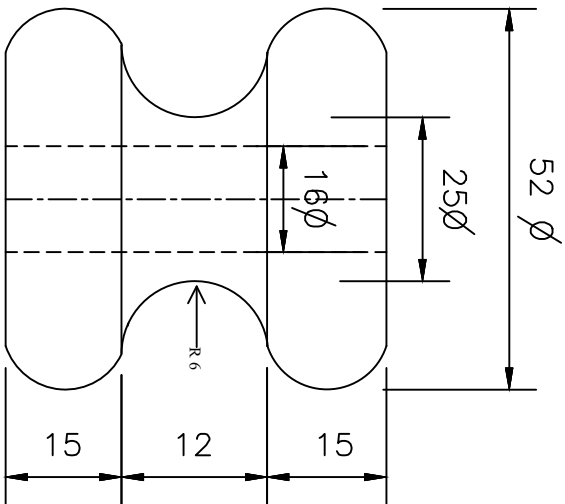
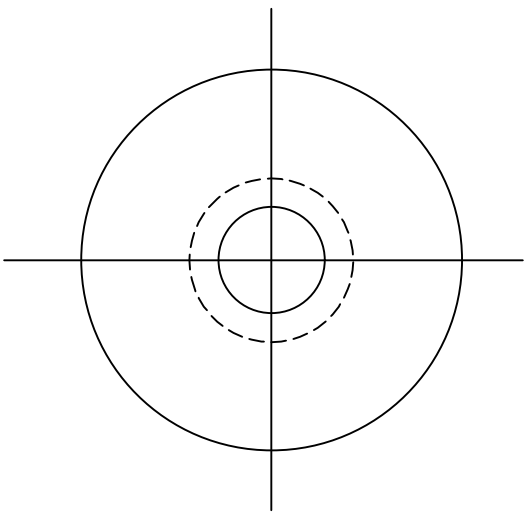
PRG. NO.

REC/RDSS/LT-OH/14

SHT. NO. REV. NO.

1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

Earth Knob For L.T Line

SIZE/SCALE

PRG. NO.

SHT. NO. REV. NO.

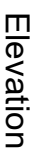
A3 MTS

REC/RDSS/LT-OH/16

1 OF 1

0

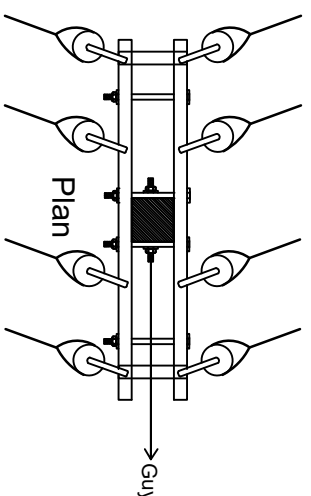
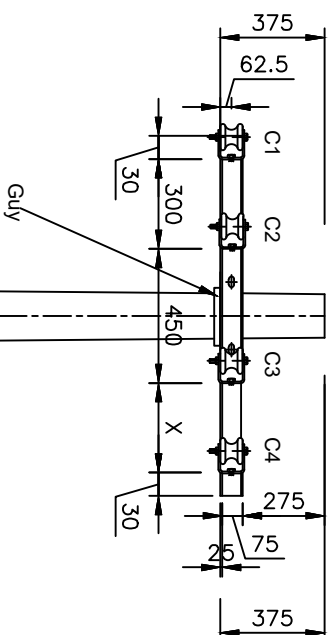
Note:- All Dimension are in mm.



FOR TENDER PURPOSE ONLY

- NOTATIONS:-
- | | | |
|----------|-------|-------------------|
| C1,C2,C3 | _____ | PHASE CONDUCTORS |
| C4 | _____ | EARTH CUM NEUTRAL |

						SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0									
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT			1 OF 1	0
						AS NOTED	REC/RDSS/LT-OH/17		



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B-19 .FOR TYPE OF POLE TO BE USED.
2. THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
3. GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-
 C1,C2,C3 ————— PHASE CONDUCTORS
 C4 ————— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



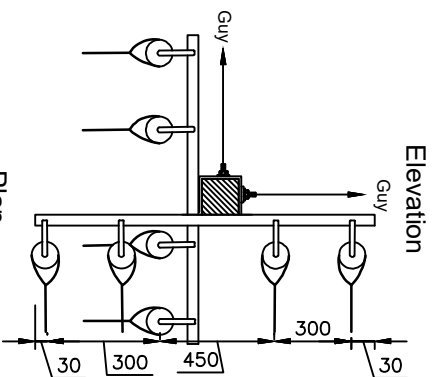
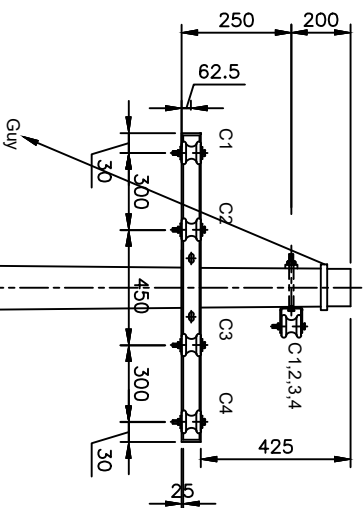
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 30° TO 60° Angle Locations(3-Phase,4Wire,Horizontal Formation)

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE	SCALE	PRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/LT-OH/18	1 OF 1	0	

Note:- All Dimension are in mm.



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B-19, FOR TYPE OF POLE TO BE USED.
2. THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
3. GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-

C1,C2,C3 ——— PHASE CONDUCTORS
C4 ——— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

415V/240V Lines Conductor Formation And Arrangement of Guys For 60° TO 90° Angle Locations(3-Phase, 4Wire, Horizontal Formation)

SIZE/SCALE DRG. NO.

A3 NTS

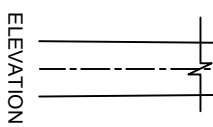
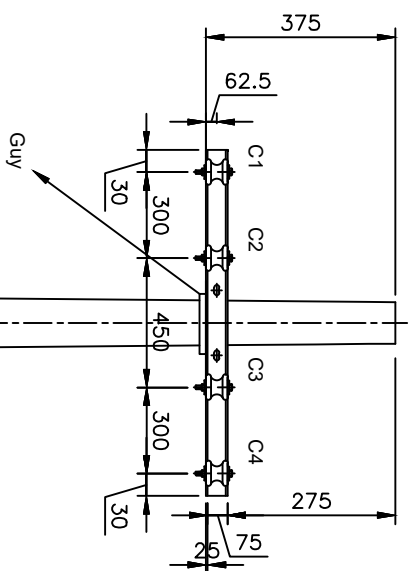
REC/RDSS/LT-OH/19

SHT. NO. REV. NO.

1 OF 1

0

Note:- All Dimension are in mm.



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B--19. FOR TYPE OF POLE TO BE USED.
2. THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
3. GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-

- C1,C2,C3 _____ PHASE CONDUCTORS
C4 _____ EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY

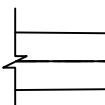
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For Dead End Locations(3-Phase,4Wire,Horizontal Formation)

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/20	1 OF 1	0

RD	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
REV. NO.					

Note:- All Dimension are in mm.



Plan

Guy

3. GUY ANGLE SHALL BE 30° TO 45°.

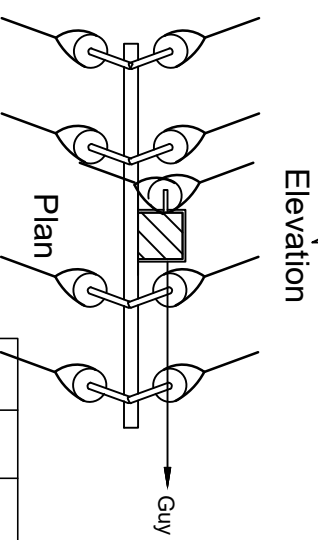
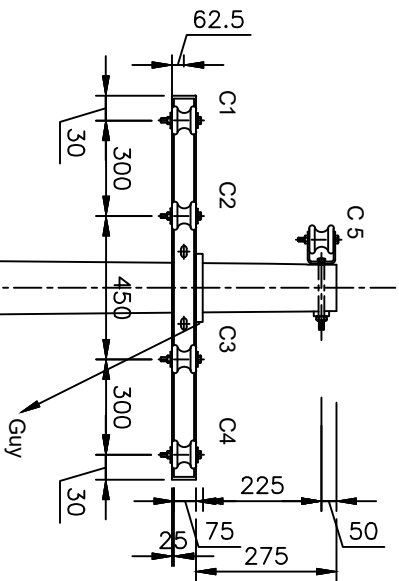
C1,C2,C3	——	PHASE CONDUCTORS
C4	——	EARTH CUM NEUTRAL

आर ई सी
REC

TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 0° TO 10° Angle Locations(3-Phase,4Wire,Horizontal Formation)

SHT. NO.	REV. NO.
----------	----------

Note:- All Dimension are in mm.



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B-19. FOR TYPE OF POLE TO BE USED.
2. THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
3. GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-
C1,C2,C3,C5 _____ PHASE CONDUCTORS
C4 _____ EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



REC

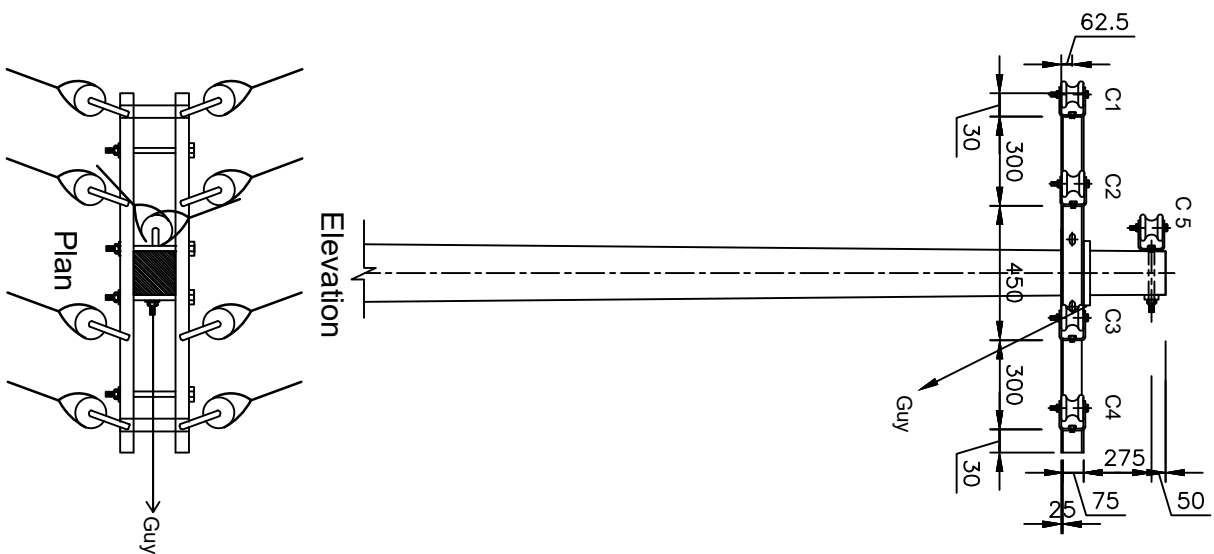
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 415V/240V Lines Conductor Formation And Arrangement of Gys For 10° TO 30° Angle Locations(3-Phase,5Wire,Horizontal Formation)

R0											
REV. NO.	BY	PREPARED	BY	CHECKED	BY	APPROVED	BY	DATE		PROJECT	
SIZE/SCALE		PRG. NO.		SHT. NO.		REV. NO.					
A3 MTS		REC/RDSS/LT-OH/22		1 OF 1		0					

Note:- All Dimension are in mm.



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B-19 .FOR TYPE OF POLE TO BE USED.
- 2.THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT.THE RESULTANT TENSION OF THE CONDUCTORS.
- 3.GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-
C1,C2,C3,C5 ——— PHASE CONDUCTORS
C4 ——— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

415V/240V Lines Conductor Formation And Arrangement of Guys For 30° TO 60° Angle Locations(3-Phase,5Wire,Horizontal Formation)

SIZE/SCALE DRG. NO.

A3 NTS

REC/RDSS/LT-OH/23

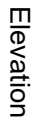
SHT. NO. REV. NO.

1 OF 1

0

Note:- All Dimension are in mm.

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



Plan

Note:- All Dimension are in mm.

1. REFER REC CONSTRUCTION STANDARD B-19 .FOR TYPE OF POLE TO BE USED.

2.THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT.THE RESULTANT TENSION OF THE CONDUCTORS.

3. GUY ANGLE SHALL BE 30° TO 45° .

NOTATIONS:-

C1,C2,C3,C5 ——— PHASE CONDUCTORS
C4 ——— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

RULE:

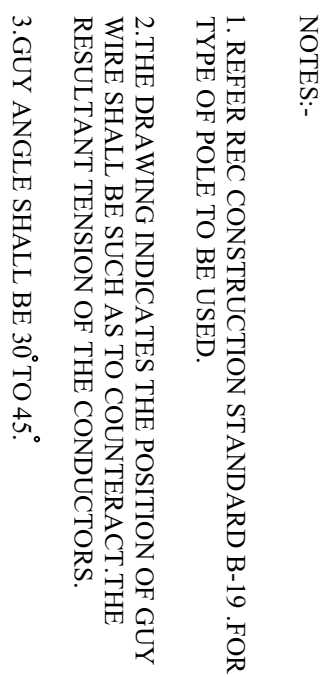
TABLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 60° TO 90° Angle Locations(3-Phase,5Wire,Horizontal Formation)

SIZE	SCALE	DRG. NO.
------	-------	----------

A3 NTS	REC/RDSS/LT-OH/24
--------	-------------------

SHT. NO. REV. NO.

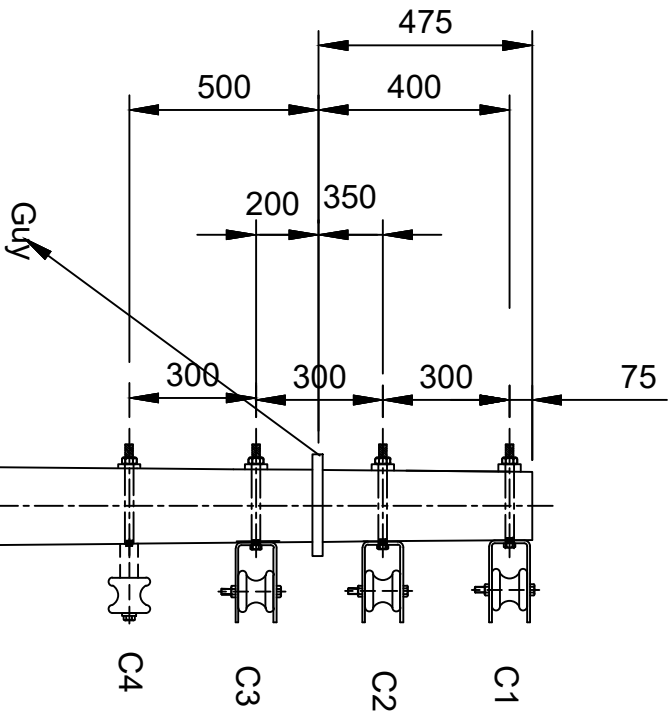
1 OF 1	0
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NOTATIONS:-

C1,C2,C3,C5	————	PHASE CONDUCTORS
C4	————	EARTH CUM NEUTRAL

				SIZE SCALE		DRG. NO.		SHT. NO.		REV. NO.	
R0											
REV. NO.		PREPARED BY		CHECKED BY		APPROVED BY		DATE		PROJECT	
				A3		NTS		REC/RDSS/LT-OH/25		1 OF 1	
										0	



NOTES:-

1. REFER REC CONSTRUCTION STANDARD B-19 .FOR TYPE OF POLE TO BE USED.
- 2.THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT.THE RESULTANT TENSION OF THE CONDUCTORS.
3. GUY ANGLE SHALL BE 30° TO 45°.

NOTATIONS:-
C1,C2,C3, ——— PHASE CONDUCTORS
C4 ——— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

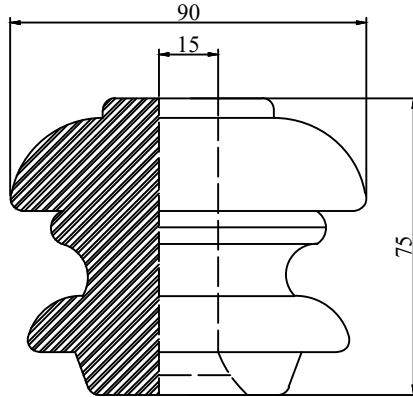
TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For Dead End Locations(3-Phase,4 Wire, Vertical Formation)

SIZE/SCALE DRG. NO.

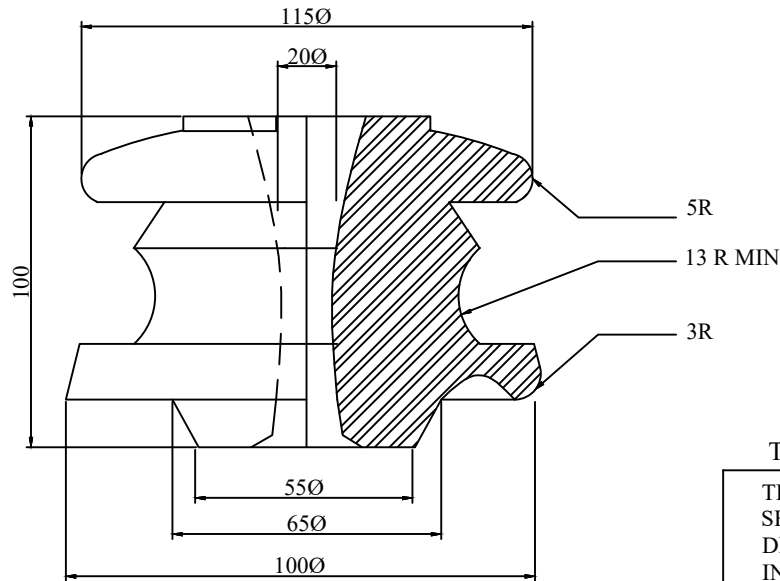
A3 NTS REC/RDSS/LT-OH/27

SHT. NO. REV. NO.
1 OF 1 0

Note:- All Dimension are in mm.



TYPE-1



TYPE - 2

TENDER DRAWING

TITLE : 415/ 240 VOLTS
SHACKLE INSULATOR
DRG. NO : NH / RE /
INSULATOR / 02

415/ 240 VOLTS
SHACKLE INSULATOR
ALL DIMENSION ARE IN mm.

NOTE : THE ENCLOSED DIMENSIONS ARE MANDATORY.
OTHER DIMENSIONS AND THE PROFILES ARE
GIVEN FOR GUIDANCE

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

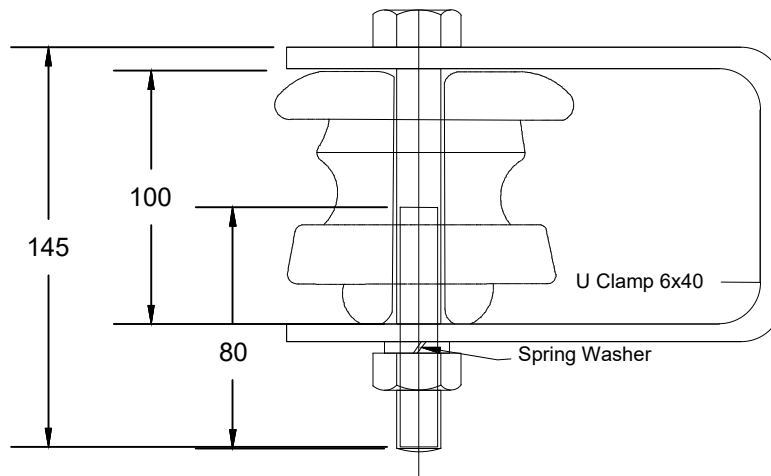
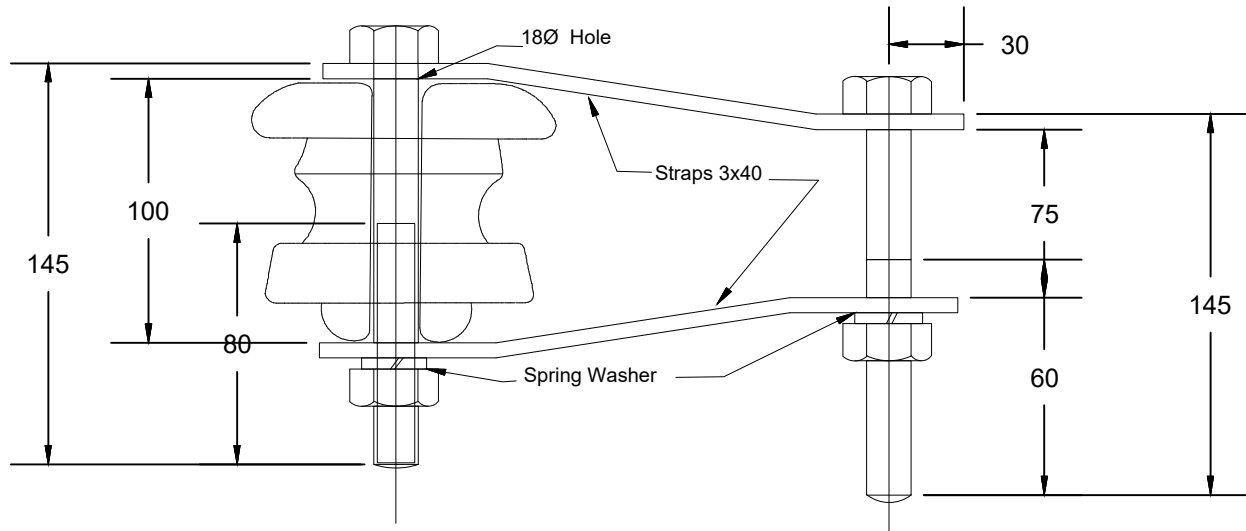
Revamped Distribution Sector Scheme (RDSS)

TITLE

415/240 V Shackle Insulators

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/28	1 OF 1	0



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

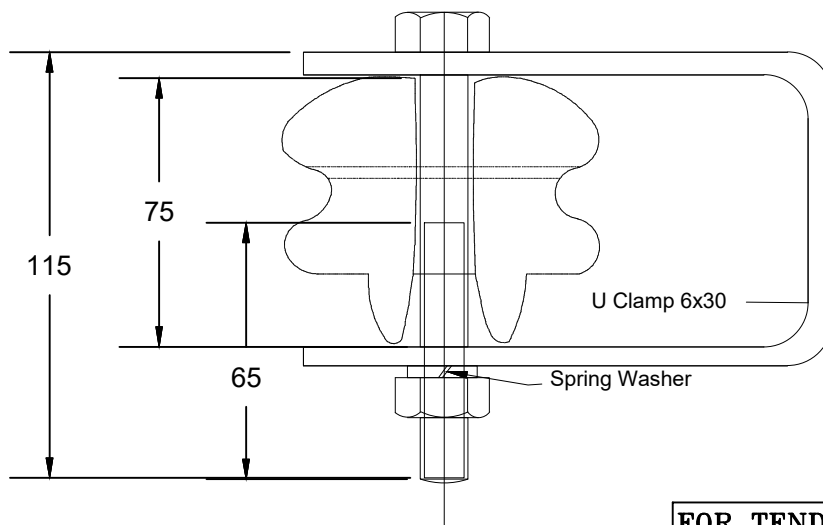
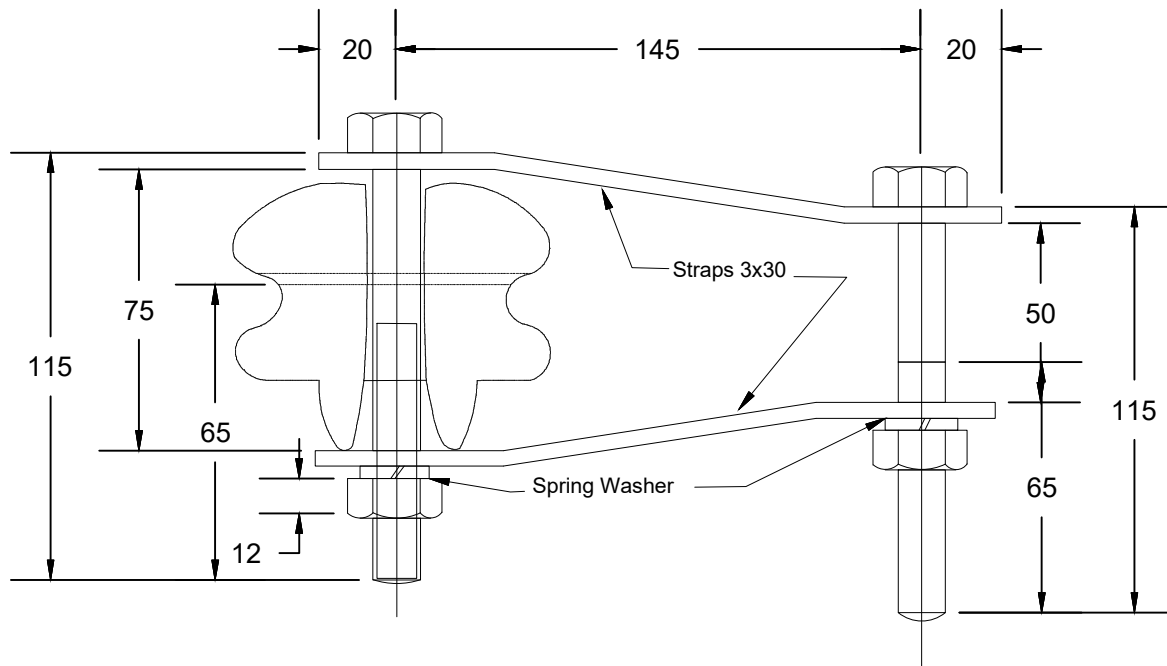
Revamped Distribution Sector Scheme (RDSS)

TITLE

415/240V Insulators and Hardware
Fitting For Type-2 Shackle Insulators

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /LT-OH/29	1 OF 1	0



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

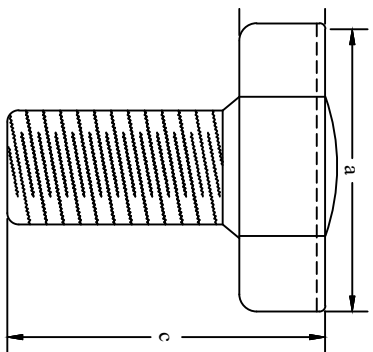
Revamped Distribution Sector Scheme (RDSS)

TITLE

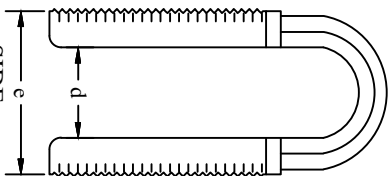
415/240V Insulators & Hardware Fitting
For Type-I Shackle Insulator

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

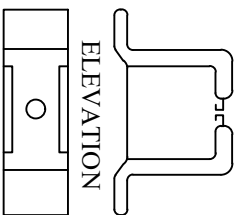
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/30	1 OF 1	0



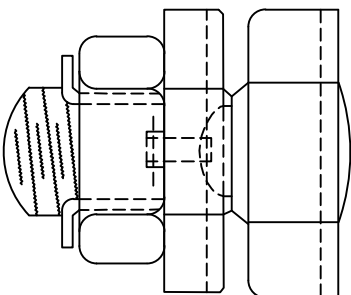
ELEVATION



SIDE



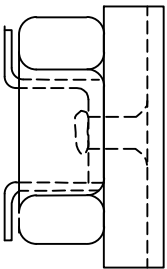
PLAN
DETAIL 'A'



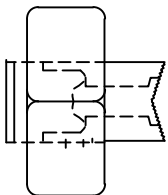
CONNECTOR ASSEMBLY

TWO STANDARD SIZES OF SERVICE CONNECTORS, TYPE A AND TYPE B SAHALL HAVE
THE FOLLOWING DIMENSIONS/ APPLICATIONS.

TYPE	DIMENSIONS					APPLICATIONS
	a	b	c	d	e	
A	36	12	35	10.5	21	LINE CONDUCTORS 30 mm ² ACSR AND 50 mm ² ACSR/AAC (WEASEL, RABBIT AND ANT)
						2.5 mm ² TO 10 mm ² ALUMINIUM CABLE
B	30	12	30	8	16	20 mm ² ACSR, 30 mm ² ACSR AND 25 mm ² AAC (SQUIRREL, WEASEL AND GNAT)
						2.5 mm ² TO 10 mm ² ALUMINIUM CABLE

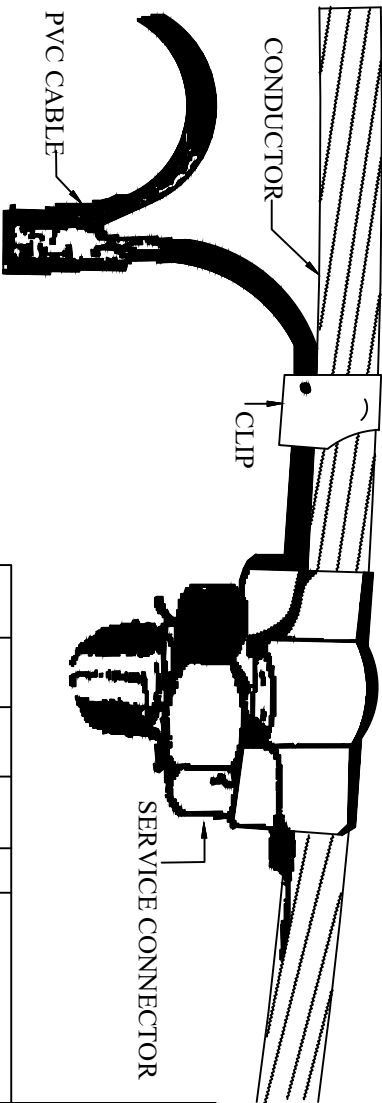


ELEVATION



SIDE

SEE DETAIL AT 'A'



ALL DIMENSION ARE IN MM.

FOR TENDER PURPOSE ONLY

PROJECT:			
Rural Electrification Corporation Ltd.			
Revamped Distribution Sector Scheme (RDSS)			
TITLE			
Finished Joint Using Service Connector			

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/LT-OH/31	1 OF 1	0



STEP: II. MIX T-JOINT BY TWISTING OF STANDS OR BY USING BINDING WIRE AS PER NORMAL PRACTICE.



				SHEET NO.	REV. NO.
R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.	A3	NTS	REC/RDSS/LT-OH/32	1 OF 1	0



FIGURE-I

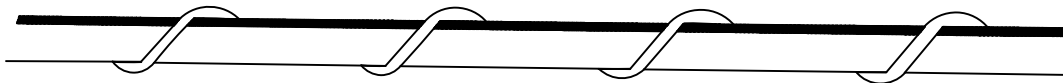


FIGURE-II

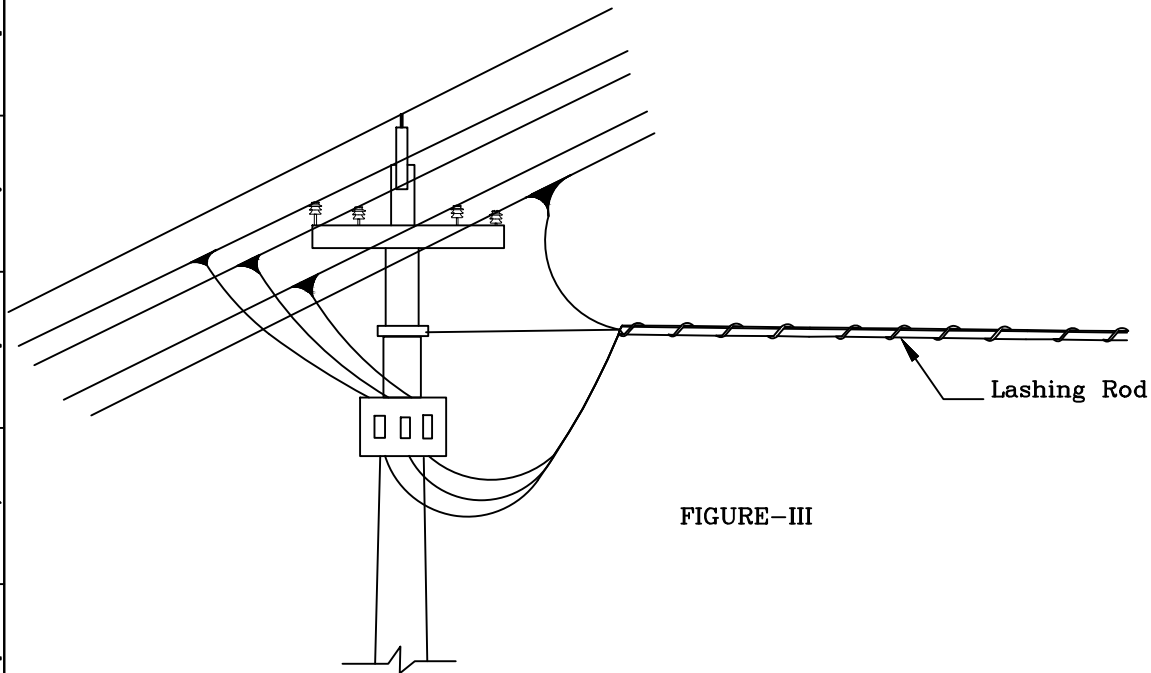


FIGURE-III

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

Helically Formed Fittings Lashing Rods

RO	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/33	1 OF 1	0



FIGURE-1

NOTE:- T-CONNECTOR CAN BE USED TO TAP SERVICE CONNECTIONS FROM THE LINE OR FOR TAPPING A BRANCH LINE FROM THE MAIN LINE.

FIGURE-2

FIG.1 SHOWS THE T-CONNECTOR
FIG.2 SHOWS THE T-CONNECTOR
IN POSITION.
FIG.3 SHOWS TAPPING OF SERVICE
CONNECTIONS USING
T-CONNECTORS.

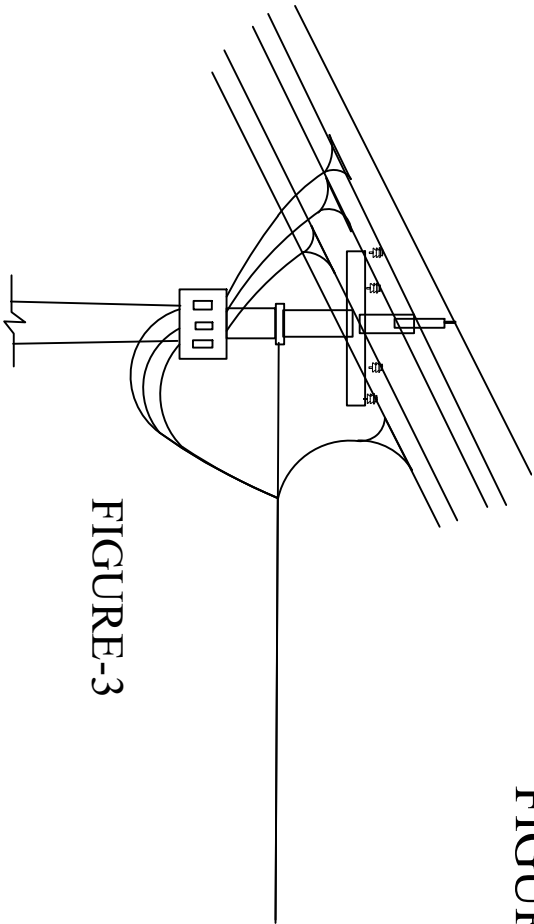
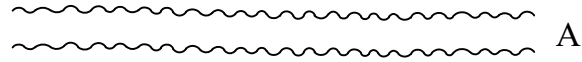


FIGURE-3

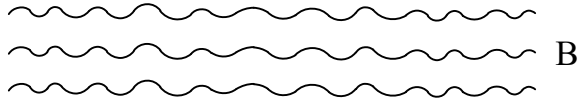
ALL DIMENSIONS ARE IN MM.
FOR TENDER PURPOSE ONLY

PROJECT: Rural Electrification Corporation Ltd.			
TITLE Helicolly Formed Fittings T-Connector			

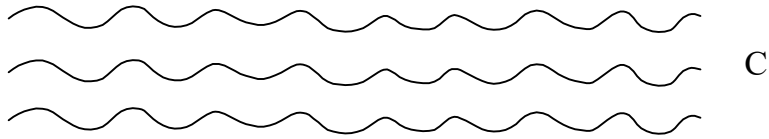
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/LT-OH/34	1 OF 1	0	



A



B



C

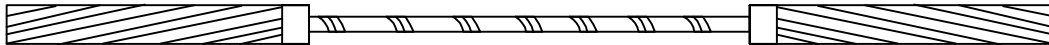


FIGURE-1

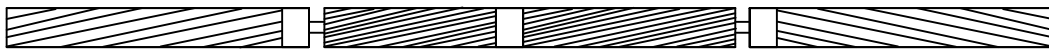


FIGURE-2

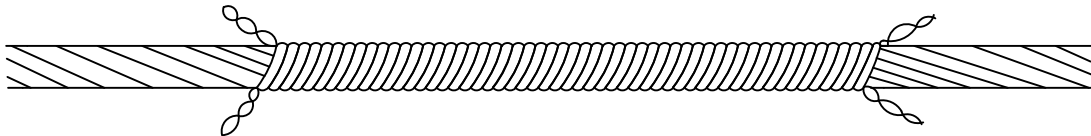


FIGURE-3

- A. SHOWS THE CORE SPLICE
 B. SHOWS THE FILLER RODS
 C. SHOWS THE OUTER SPLICE.
 FIG.1 SHOWS THE CORE SPLICE - IN POSITION
 FIG.2 SHOWS THE CORE SPLICE AND FILLER RODS IN POSITION.
 FIG.3 SHOWS THE COMPLETE JOINT AND THE OUTER SPLICE IN POSITION.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

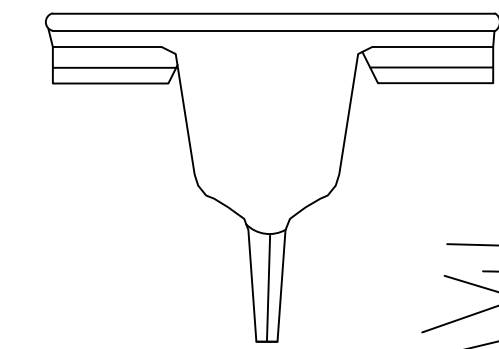
Revamped Distribution Sector Scheme (RDSS)

TITLE

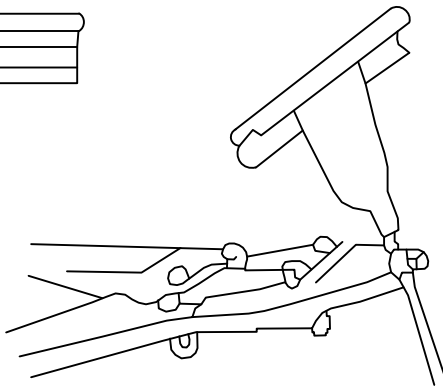
Helically Formed Fittings Splice For ACSR Joints

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

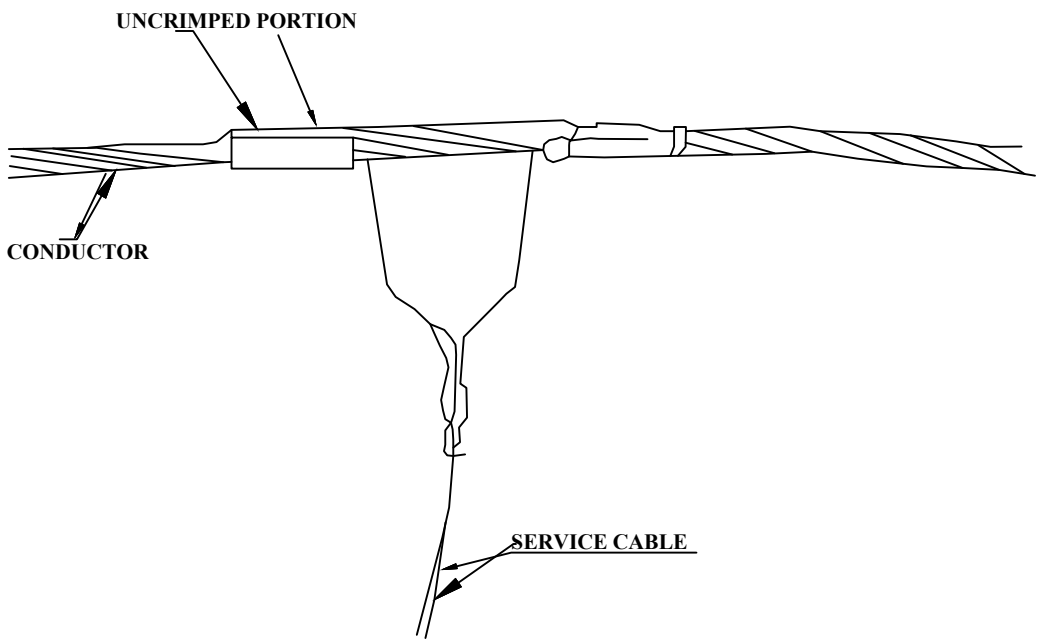
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/35	1 OF 1	0



SERVICE CONNECTOR



APPLICATION OF CRIMPING TOOL



A VIEW OF CRIMPED SERVICE CONNECTOR (PARTLY CRIMPED)

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

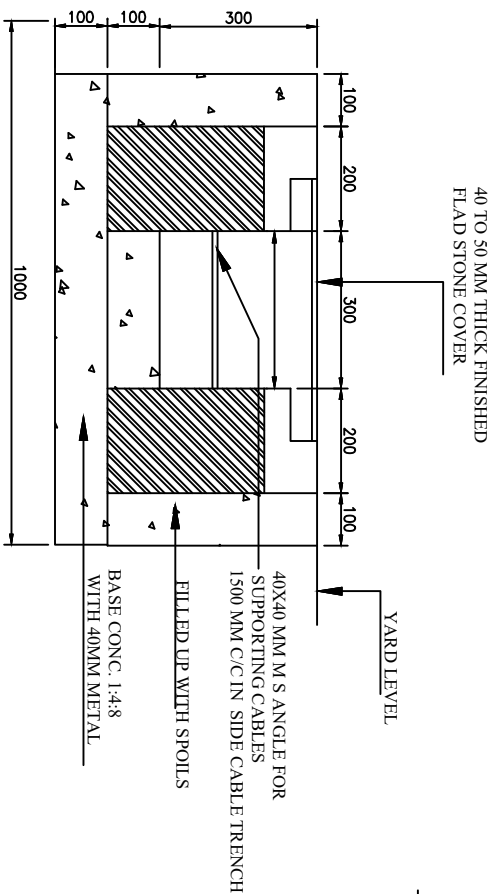
Revamped Distribution Sector Scheme (RDSS)

TITLE

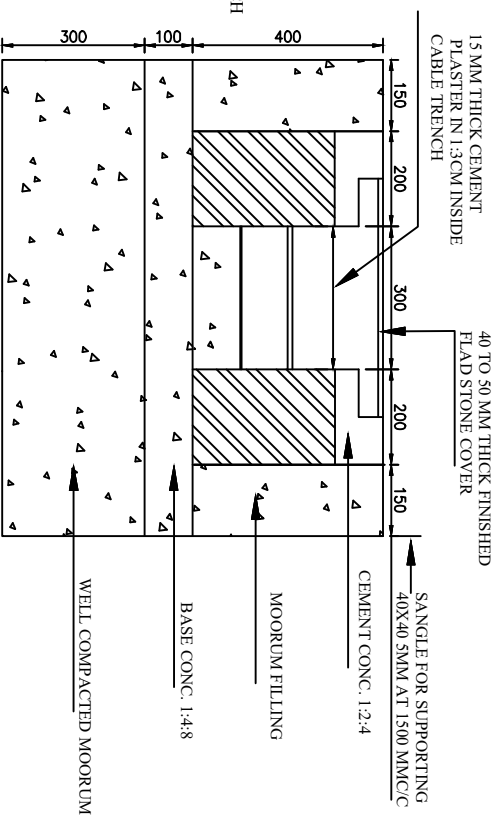
CRIMPED JOINT FOR L.T. SERVICE CONNECTION

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/36	1 OF 1	0



HARD SOIL



BLACK COTTON SOIL

FOR TENDER PURPOSE ONLY



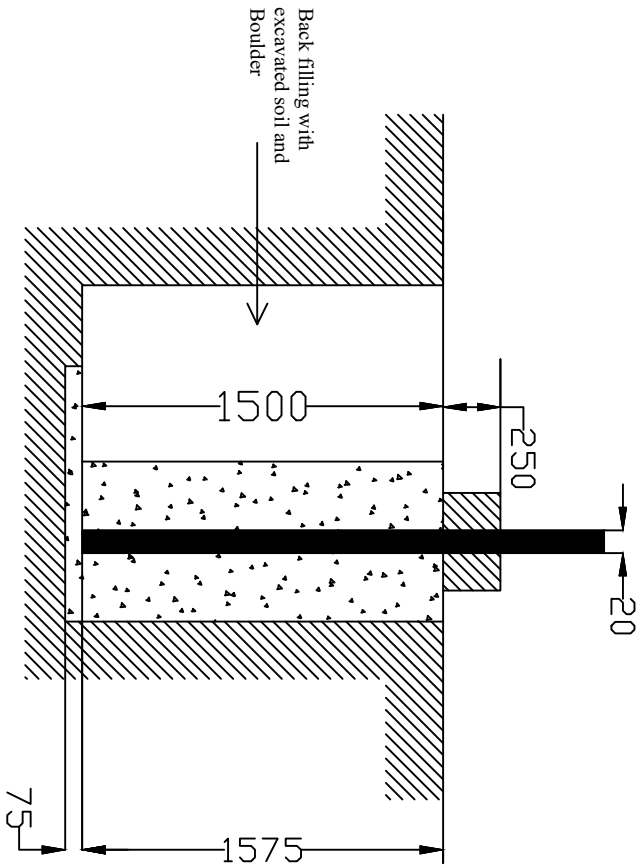
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

PROPOSED CABL TRENCH

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/RDSS/CIVIL/12	1 OF 1	0



FOR TENDER PURPOSE ONLY

All dimensions are in mm.



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

DRAWING FOR CONCRETING OF DP 8 Mtr. LONG 140 KG PCC POLE

SIZE/SCALE

PRG. NO.

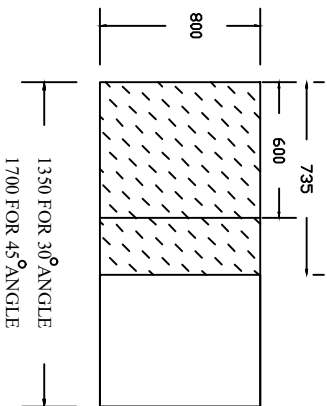
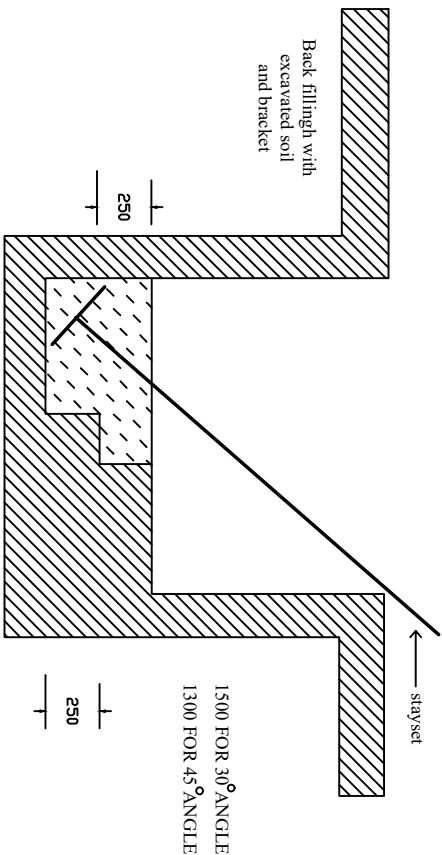
A3 MTS

REC/RDSS/CIVIL/15

SHT. NO. REV. NO.

1 OF 1 0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

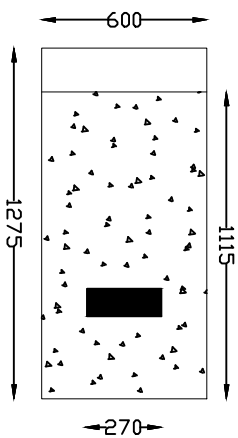


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: CONCREATING FOR STAY SET FOR 11 KV LINE AND LT LINE

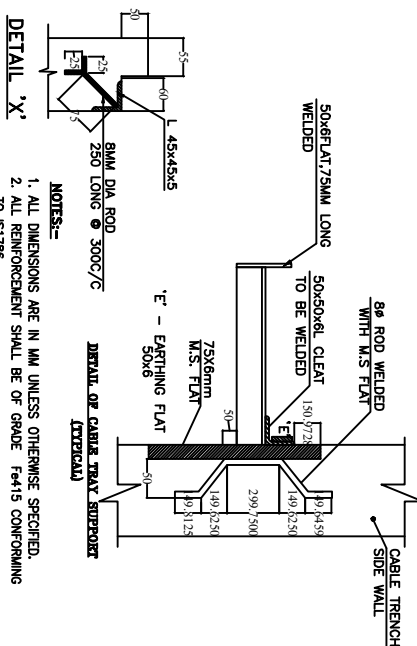
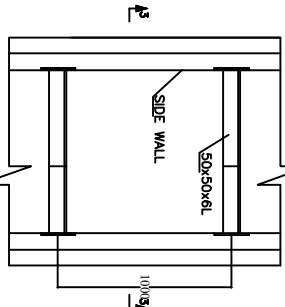
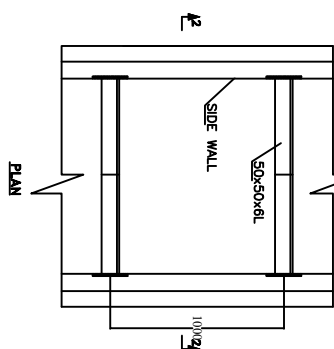
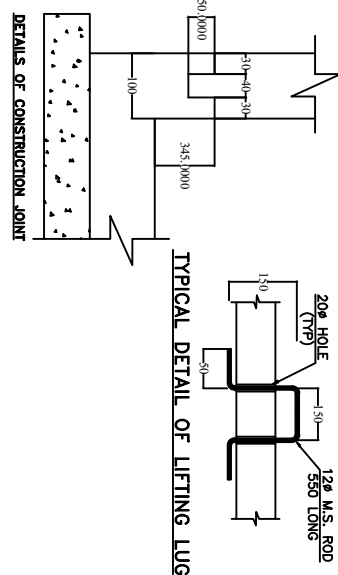
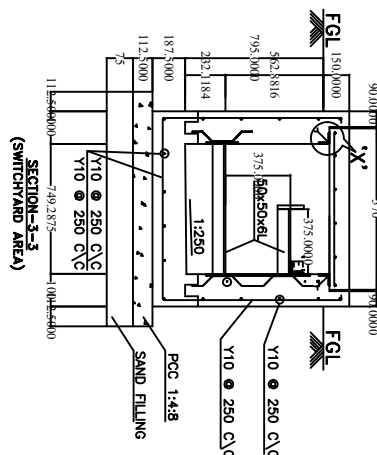
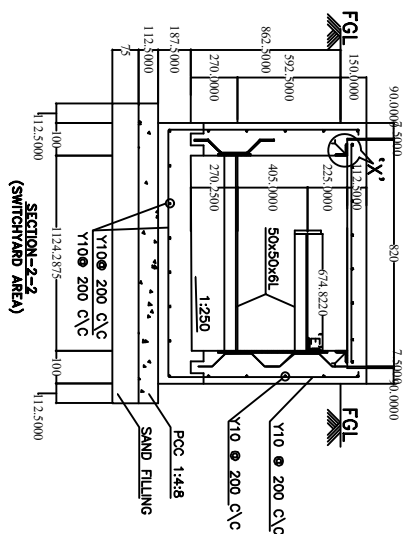
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/CIVIL/15	1 OF 1	0



FOR TENDER PURPOSE ONLY

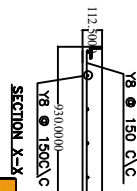
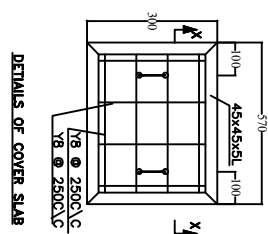
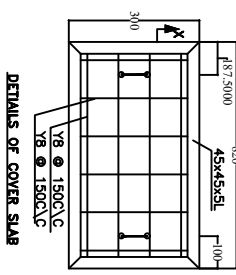


R0					
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL REINFORCEMENT SHALL BE OF GRADE 'Fe415' CONFORMING TO IS1786.
3. CONCRETE MIX SHALL BE M20
4. CLEAR COVER FOR REINFORCEMENT
SIDE WALL = 50mm
BOTTOM SLAB ON EARTH FACE = 50mm
LAP/DEVELOPMENT LENGTH SHALL BE 40 TIMES THE DIA. OF MAIN REINFORCEMENT.



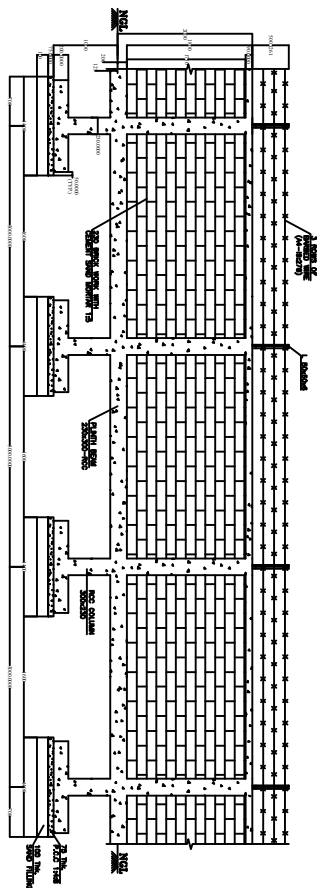
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

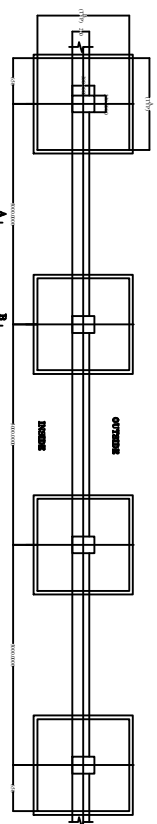
TITLE: DETAILS OF CABLE TRENCHES (SWITCHYARD AREA)

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/33/11kV PSS/19B	1 OF 1	0	



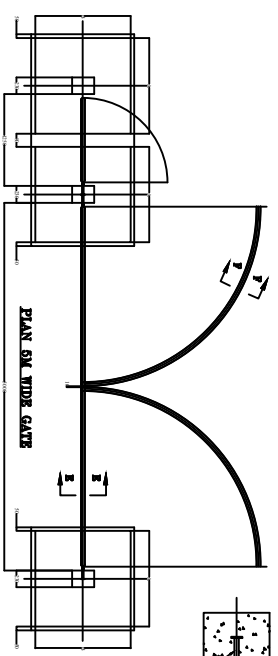
ELEVATION

SECTION B-3



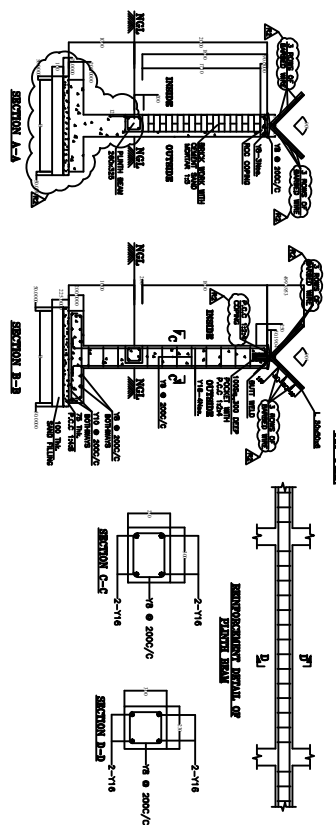
ELEVATION

SECTION B-3



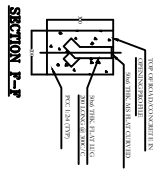
PLAN OF GATE

SECTION F-F



ELEVATION

SECTION B-3



DETAIL AT - B

DETAIL AT - C

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. REINFORCEMENT SHALL BE AS PER IS.
3. REINFORCEMENT STEEL SHALL BE M20 BAR AS PER IS.
4. CLEAR COVER
5. FOR COLUMN - 40mm
6. FOR PLAIN BEAM - 25mm
7. FOR REINFORCED BEAM - 25mm
8. FOR FOUNDATION - 50mm
9. CASTING SHALL BE 120mm THK. INSIDE & 10mm THK. OUTSIDE
10. WITH CEMENT MORTAR 1:6
11. EXPANSION JOINT SHALL BE PROVIDED AT EVERY 15M.
12. THE STEEL SHALL BE PAINTED WITH MINIMUM TWO COATS OF COLOUR WASH OVER A BASE COAT OF WHITE WASH WITH LIME.
13. OF APPROVED MAKE OVER ONE COAT OF PRIMER.
14. THE GATE FRAME SHALL BE MADE OF MEDIUM DUTY M.S. PIPE CONFORMING TO IS: 1161 WITH WELDED JOINTS.
15. THE GATE FRAMES SHALL BE PAINTED WITH ONE COAT OF STEEL PRIMER AND TWO COAT OF SYNTHETIC EMERAL PAINT.
16. ALL WELDED JOINTS SHALL BE CONFORMING TO IS813.



Rural Electrification Corporation Ltd.

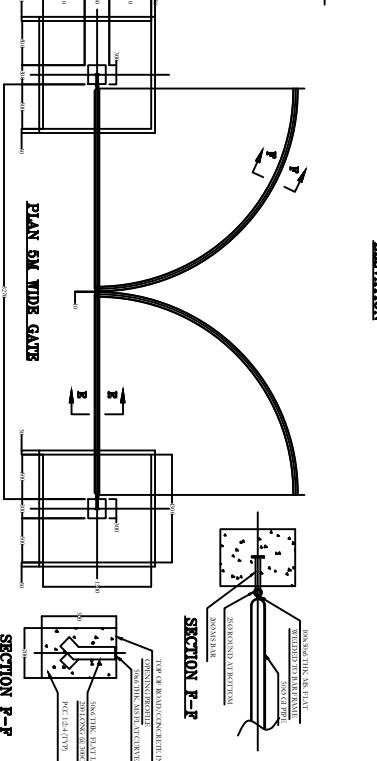
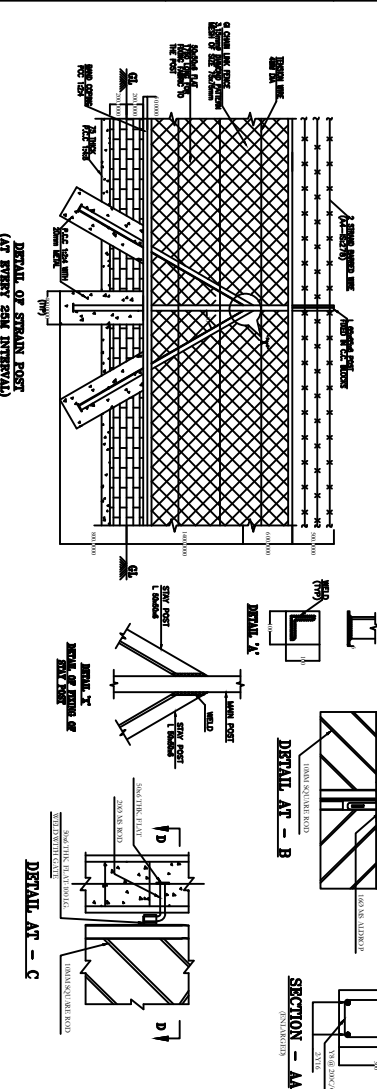
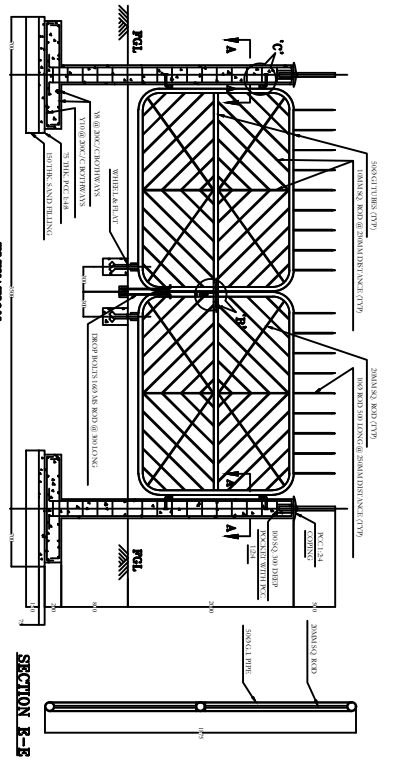
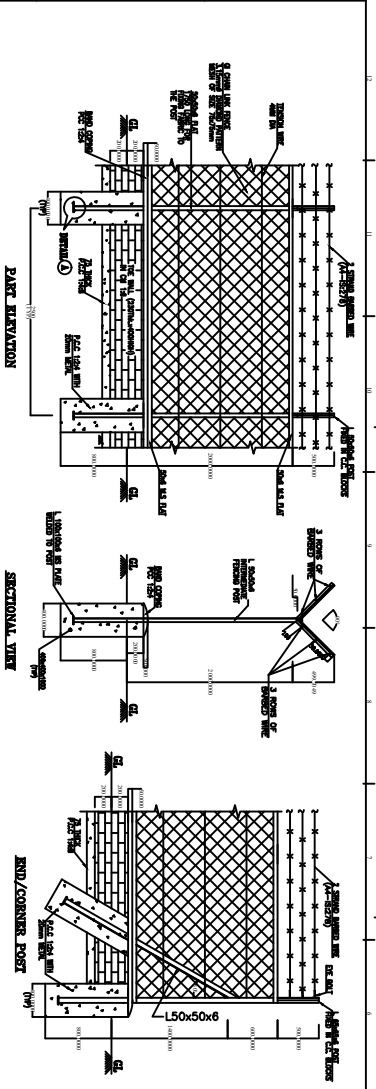
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

DETAIL OF BOUNDARY WALL FOR SWITCHYARD WITH ENTRANCE GATE

REV NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/33/11kV PSS/20A	1 OF 1	0	

FOR TENDER PURPOSE ONLY



NOTES:-

1. ALL STRUCTURAL STEEL SHALL BE CONFORM TO IS2062 AND SHALL BE PAINTED WITH GALVANIZED STEEL PAINT AND TWO COATS OF SYNTHETIC ENAMEL PAINT.
2. CHAIN LINK MESH SHALL BE AS PER IS2723, MESH SIZE 75mm AND NOMINAL WIRE SIZE SHALL BE 3.15mm DIAMETER AND SHALL BE GALVANIZED.
3. BARBED WIRE SHALL BE DESIGNATED AS A-4 IS278 AND SHALL BE GALVANIZED.
4. FABRIC SHALL BE SECURED TO TENSION WIRES (THREE) SPACED AT 50MM WITH THE GALVANIZED STEEL WIRE AND TENSION WIRES SHALL BE SINGLE TWISTED WIRE NOT LESS THAN TWO TWISTS.
5. L 50x50x6 SHALL BE USED FOR INTERMEDIATE AND STAY POSTS. L 65x65x6 SHALL BE USED FOR STRAINING POST.
6. INTERMEDIATE POSTS SHALL BE SPACED 2.5m APART MEASURED PARALLEL TO GROUND SURFACE. STRAINING POSTS SHALL BE INSTALLED AT EQUAL INTERVALS NOT EXCEEDING 25m.
7. BOTTOM AND TOP OF THE FENCE FABRIC SHALL BE FIXED WITH 50x6 M.S FLAT. FENCE FABRIC SHALL BE LAID OUT WITH BARBED EDGE ON TOP, STRETCHED TIGHTLY AND SHALL BE FASTENED TO INTERMEDIATE POST, GATE AND STRAINING POST WITH 50x6 M.S FLAT ALL THROUGH ITS LENGTH.
8. ALL EXPOSED SURFACE OF BRICK TCE WALL SHALL BE PROVIDED WITH 12 TH. 1:6 CM PLASTER AND COATED WITH TWO COATS OF COLOR WASH WITH A BASE COAT OF WHITE WASH WITH LIME.
9. ALL WELDS ARE 4mm THK. CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
10. ALL CORNER POST AND EVERY TENTH POST WILL HAVE TWO STAY POST AND END POST SHALL HAVE ONE TRANSVERSE STAY POST.
11. THE GATE FRAME SHALL BE MADE OF MEDIUM DUTY M.S. PIPE CONFORMING TO IS. 1161 WITH WELDED JOINTS.
12. THE GATE FRAMES SHALL BE PAINTED WITH ONE COAT OF STEEL PRIMER AND TWO COAT OF SYNTHETIC ENAMEL PAINT.
13. ALL WELDED JOINTS SHALL BE CONFORMING TO IS813.

FOR TENDER PURPOSE ONLY



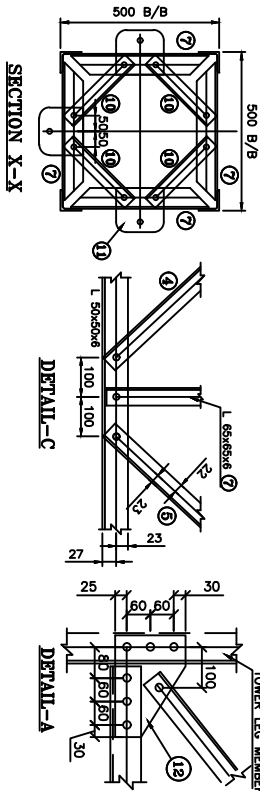
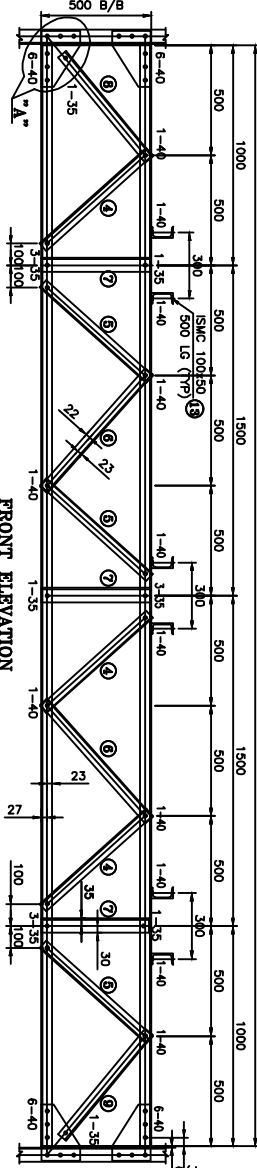
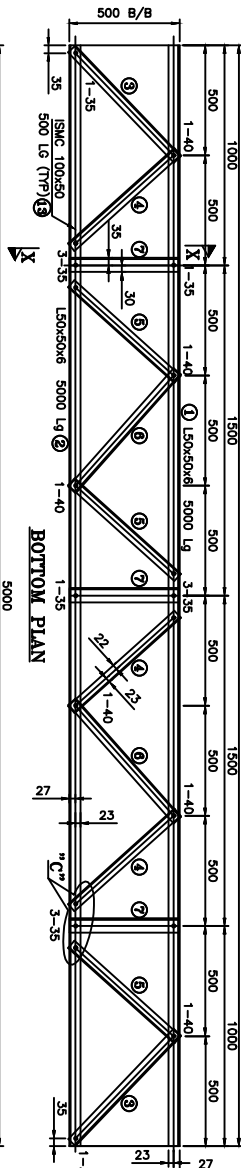
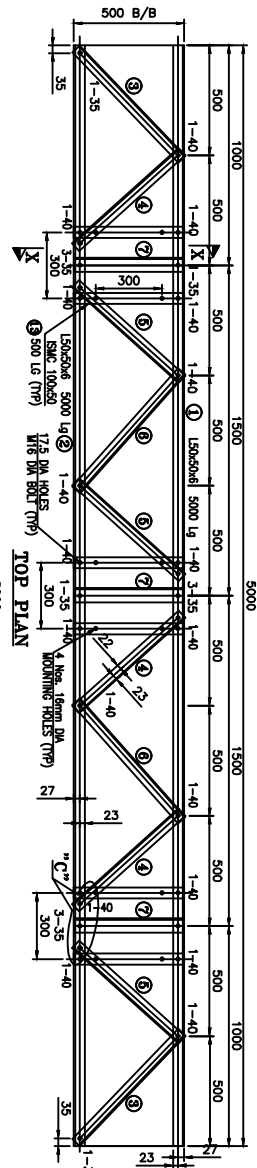
REC

Rural Electrification Corporation Ltd.

Project: Revamped Distribution Sector Scheme (RDSS)

DETAIL OF FENCING FOR SWITCHYARD WITH GATE ARRANGEMENT

REV NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	A3	SCALE	NTS	DRG. NO.	SHT. NO.
				REC/RDSS/33/11kV PSS/20B	1 OF 1
					REV. NO.
					0



BILL OF MATERIAL					
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. kg
1	L 50x50x6THK	2	5000	-	4.50
2	L 50x50x6THK	2	5000	-	4.50
3	L 45x45x5THK	4	694	-	3.40
4	L 45x45x5THK	12	649	-	3.40
5	L 45x45x5THK	12	649	-	3.40
6	L 45x45x5THK	8	720	-	3.40
7	L 65x65x6THK	12	496	-	5.80
8	L 45x45x5THK	2	621	-	3.40
9	L 45x45x5THK	2	621	-	3.40
10	L 45x45x5THK	12	275	-	3.40
11	STRAN PLT. 8 THK	9	140	190	62.80
12	GR.L. 8 THK	8	255	175	62.80
13	ISMC 100x50	6	500	-	9.56
TOTAL WEIGHT					289.14
BOLTS & NUTS					
M16x35G. BOLTS & NUTS	55			0.124	6.82
M16x40G. BOLTS & NUTS	90			0.132	11.88
16x3.5THK SPRING WASHERS	145			0.009	1.31
TOTAL WEIGHT OF BOLTS & NUTS					20.01

WEIGHT OF STRUCTURAL STEEL	: 289.14
WEIGHT OF BOLT/NUTS	: 20.01
TOTAL WEIGHT OF STRUCTURAL STEEL	: 309.15

MARK NO:13 REQUIRED ONLY FOR = 2 NUT

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16# ϕ = 17.5# HOLES
 3. ALL ERECTION MARKS ARE TO BE PREPARED WITH - "G2".
 4. 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 5. ALL CONNECTION BOLTS SHALL BE OF 16mm ϕ CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1367 (PART-6).
 6. MILD STEEL SHALL CONFORM TO GRADE A36(410) OF IS:2062
 7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED DIMENSIONS ARE 16x45x5 WITH 23 BM
 9. UNNOTED DIMENSIONS ARE 6mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063
 11. ALL NUTS SHALL CONFORM TO IS: 12427
 12. GALVANISING SHALL CONFORM TO IS: 2829-1985 & IS:4779-1996
 13. BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY
 14. FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

FOR TENDER PURPOSE ONLY

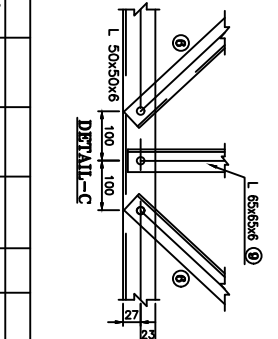
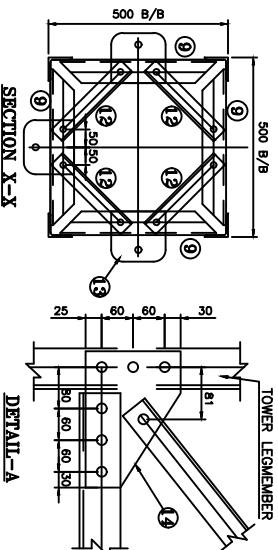
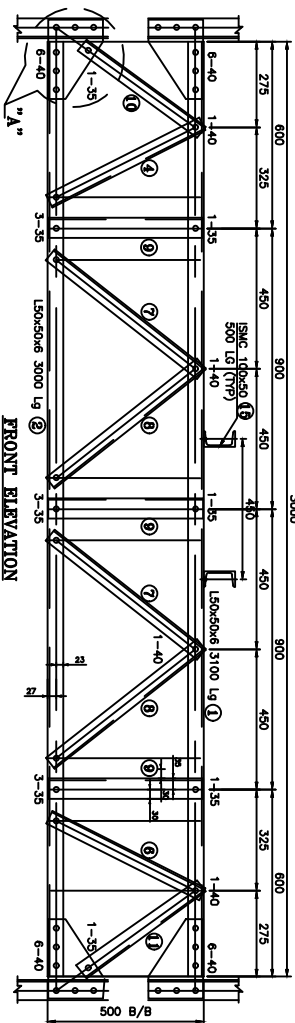
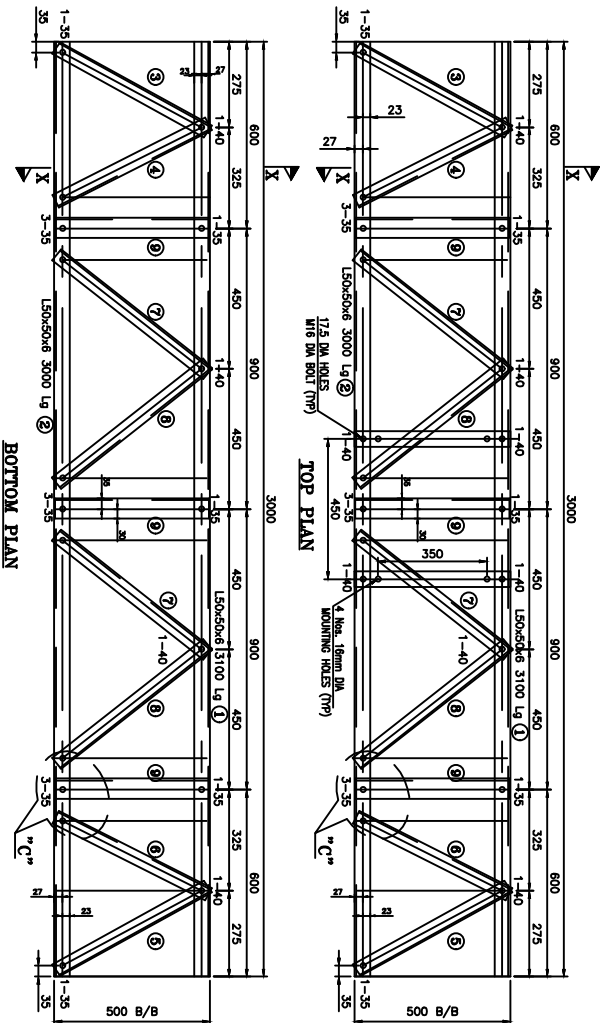


Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
DETAILS OF GIRDER TYPE "G2"

REV. NO	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11KV PSS/21	1 OF 1	0						



BILL OF MATERIAL				
MARK NO	SECTION	QTY.	LENGTH mm	UNIT WT. TOTAL WT. IN kg
1	L 50x50x6THK	2	3000	4.50 27.00
2	L 50x50x6THK	2	3000	4.50 27.00
3	L 45x45x5THK	2	556	3.40 3.78
4	L 45x45x5THK	2	549	3.40 3.78
5	L 45x45x5THK	2	556	3.40 3.78
6	L 45x45x5THK	2	549	3.40 3.78
7	L 45x45x5THK	2	473	3.40 3.22
8	L 45x45x5THK	2	473	3.40 3.22
9	L 45x45x5THK	2	473	3.40 3.22
10	L 45x45x5THK	2	473	3.40 3.22
11	L 45x45x5THK	2	473	3.40 3.22
12	L 45x45x5THK	2	473	3.40 3.22
13	L 45x45x5THK	2	473	3.40 3.22
14	L 45x45x5THK	2	473	3.40 3.22
15	L 45x45x5THK	2	473	3.40 3.22
TOTAL WEIGHT				203.19
BOLTS & NUTS				
M16x35G. BOLTS & NUTS	60			0.124 7.440
M16x40G. BOLTS & NUTS	72			0.132 9.504
M16x35THK SPRING WASHERS	135			0.009 1.215
TOTAL WEIGHT OF BOLTS & NUTS				16.159
WEIGHT OF STRUCTURAL STEEL				206.75
WEIGHT OF BOLT/NUTS				16.159
TOTAL WEIGHT OF STRUCTURAL STEEL				223.909

MAKE NO.15 REQUIRED ONLY FOR = 2 Nos.

- NOTES:-**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16# O = 17.5# HOLES
 3. ALL ERECTION MARKS ARE TO BE PRINTED WITH "35"
 4. 35mm SPRING WASHERS TO BE SUPPLIED WITH EVERY BOLT
 5. 35mm SPRING WASHERS TO BE SUPPLIED WITH EVERY BOLT
 6. MIN. STEEL SHALL CONFORM TO GRADE A572 (F410) OF IS:2002
 7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED MEMBERS ARE 145x45x5 WITH 23 BM
 9. UNNOTED GUSSETS ARE 8mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.
 11. ALL NUTS SHALL CONFORM TO IS: 12427
 12. GALVANISING SHALL CONFORM TO IS: 2629-1985 & IS:4759-1996.
 13. BRACING ANGLES SHALL BE SITUALLY CHAMFERED WHEREVER NECESSARY.
 14. FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

FOR TENDER PURPOSE ONLY

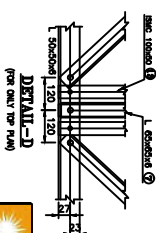
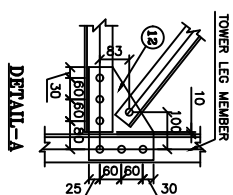
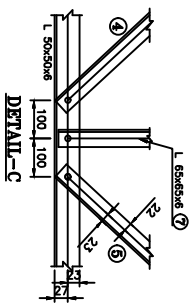
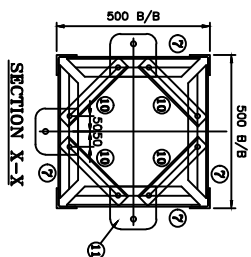
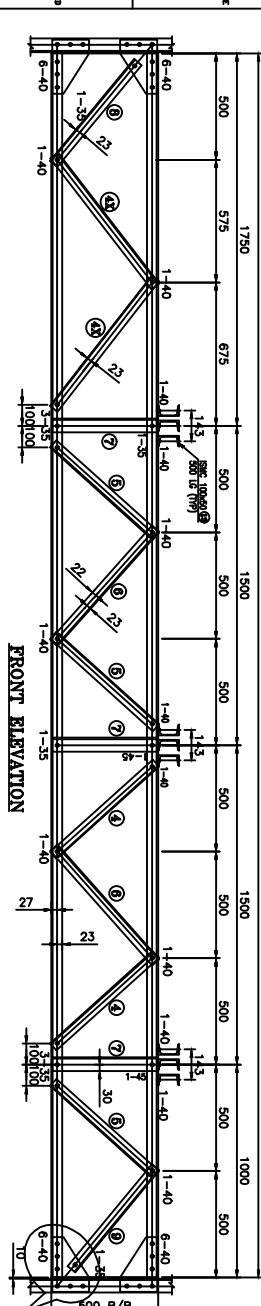
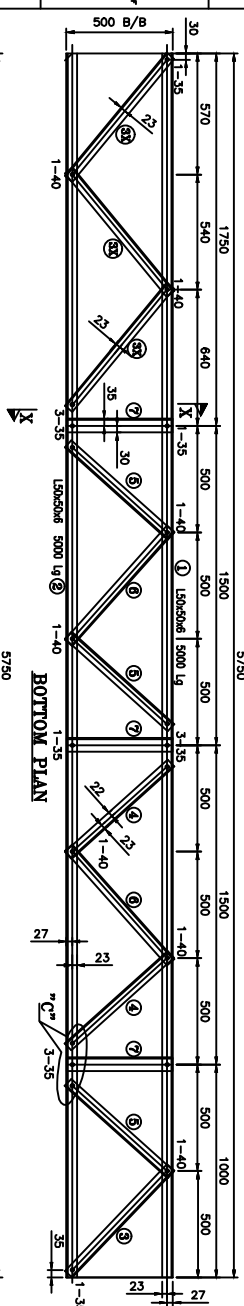
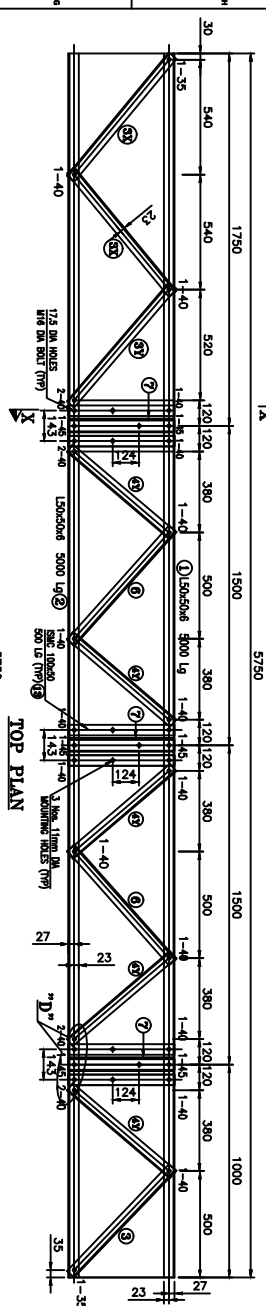
REC Rural Electrification Corporation Ltd.

PROJECT. Revamped Distribution Sector Scheme (RDSS)

TITLE DETAILS OF GIRDER TYPE "G3"

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11KV PSS/24	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



BILL OF MATERIAL					TOTAL Y
MATERIAL NO	SECTION	QTY.	LENGTHS mm	WEIGHT kg	IN KG
1	L 50x50x6THK	2	5750	-	4.50
2	L 50x50x6THK	2	5750	-	4.50
3	L 50x50x6THK	2	694	-	3.40
3X	L 45x45x5THK	5	751	-	4.40
3Y	L 45x45x5THK	1	735	-	3.40
4	L 65x65x6THK	6	649	-	3.40
4X	L 45x45x5THK	4	778	-	3.40
4Y	L 45x45x5THK	5	649	-	3.40
5	L 45x45x5THK	9	649	-	3.40
6	L 45x45x5THK	8	720	-	3.40
7	L 65x65x6THK	12	486	-	5.80
8	L 65x65x6THK	2	621	-	3.40
9	L 45x45x5THK	2	621	-	3.40
10	L 45x45x5THK	12	275	-	4.40
11	STEAM PLT. 8 THK	9	140	150	62.80
12	GFLT. 8 THK	8	255	175	62.80
13	SHK 10x60	9	500	-	9.56
TOTAL WEIGHT					328.00
BOLTS & NUTS					
M16x60x6 BOLS & NUTS	55			0.124	6.82
M16x60x6 BOLS & NUTS	97			0.132	13.80
M16x35 BOLS & NUTS				0.139	1.11
16x35.5THK SPRING WASHERS	160			0.009	1.44
TOTAL WEIGHT OF BOLTS & NUTS					22.18

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. BOLT SYMBOLS 16# 0 = 175# HOLES
3. ALL ERECTION MARKS ARE TO BE PREPARED WITH - 10"
4. 15mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
5. ALL CONNECTION BOLTS SHALL BE OF 16mm Φ CONFORMING TO IS 12427 OF PROPERTY CLASS 5.8 CONFORMING TO IS 1587 (PART-6).
6. MILD STEEL SHALL CONFORM TO GRADE A OF IS2002
7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
8. ALL UNNOTED MEMBERS ARE 45x45x5 WITH 23 BM
9. UNNOTED GUSSETS ARE 6mm THICK
10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.
11. ALL NUTS SHALL CONFORM TO IS: 12427
12. GALVANISING SHALL CONFORM TO IS: 2629-1985 & IS4739-1986.
13. BRACING ANGLES SHALL BE SQUARE CHAMFERED WHENEVER NECESSARY.
14. FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LIVING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

DETAILS OF GIRDER TYPE "G1"

SIZE	SCALE	DRG. NO.
------	-------	----------

REC/ RDSS /33/11kV PSS/25

SHT. NO.	REV. NO.
----------	----------

1 DF :

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					


R0					
REV.	MD	PREPARED	CHECKED	APPROVED	DATE
					PROJECT

STRAP: -

YEAR AND MONTH OF
MANUFACTURING

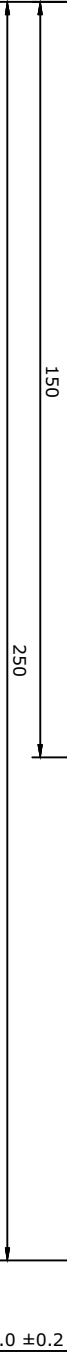
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XX.XX

052--250

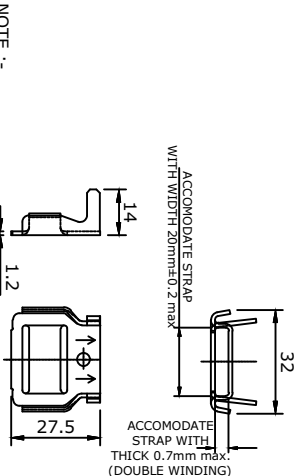
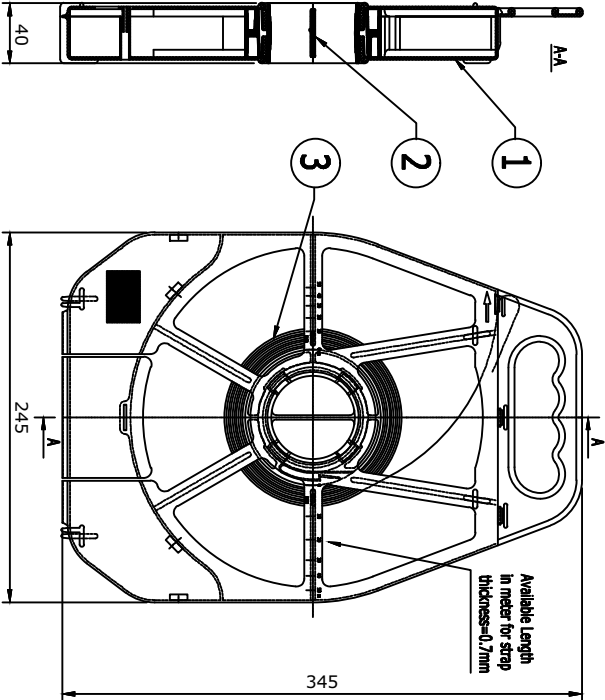
* RERACTUNAW

NOTE :-
THICKNESS = 0.7 \pm 0.05
TENSILE STRENGTH = 7.5KN Minimum
ELONGATION = 30%Min; FINISH = 2B
MATERIAL = SS 202
WEIGHT PER METER = 0.110 Kg (Min)
RAW MATERIAL (COMPOSITION) TOLERANCE = AS PER ASTM "A 480"



STANDARD CASING:-

BUCKLE:-



NOTE :-
MATERIAL = SS 304; WEIGHT PER PIECE=8 Grams.
RAW MATERIAL TOLERANCE = AS PER ASTM "A 480"
QUANTITY PER STANDARD BOX = 100 nos.

1	S.S STRAP CASING	1	Polypropylene
2	S.S STRAP BOBIN	1	Polypropylene
3	S.S STRAP	50 M	SS 202
SI.No	Description	Qty	Material

NOTE :-
GROSS WEIGHT PER CASING = 5.7 Kg (Approx.)
QUANTITY PER STANDARD CARTON BOX = 5 nos.

FOR TENDER PURPOSE ONLY



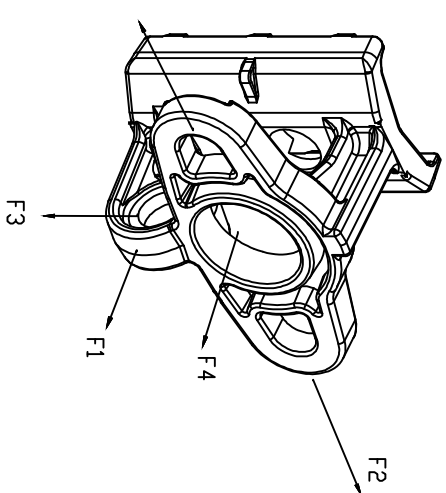
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

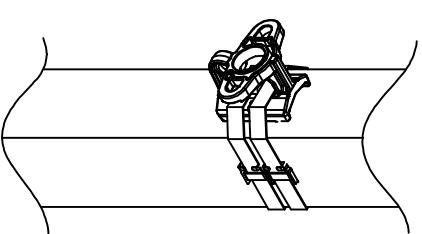
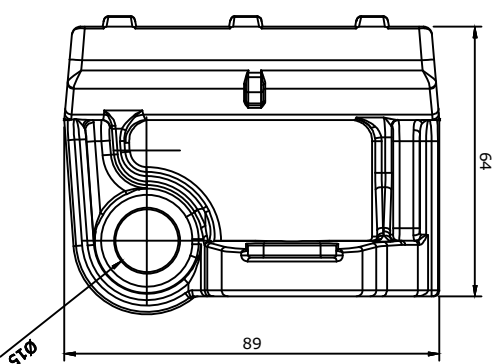
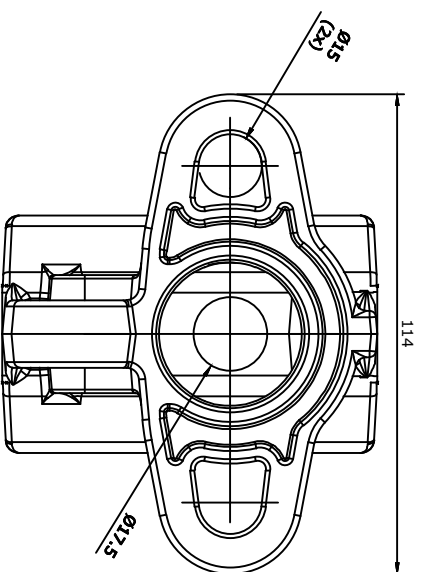
TITLE:
STAINLESS STEEL STRAP (20 x 0.7) & BUCKLES

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/01	1 OF 1	0



MIN BREAKING LOAD	APPLICATION
F1: 17KN	SINGLE ANCHOR
F2: 25KN	DOUBLE ANCHOR
F3: 24KN	STAY SYSTEM WITH 33°ANGLE
F4: 17KN	INDICATIVE



NOTE:-

MATERIAL : ALUMINIUM ALLOY

WEIGHT : 'w' gms(Approx.)

STANDARD REFERENCE: SIMILAR TO NFC 33-041

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

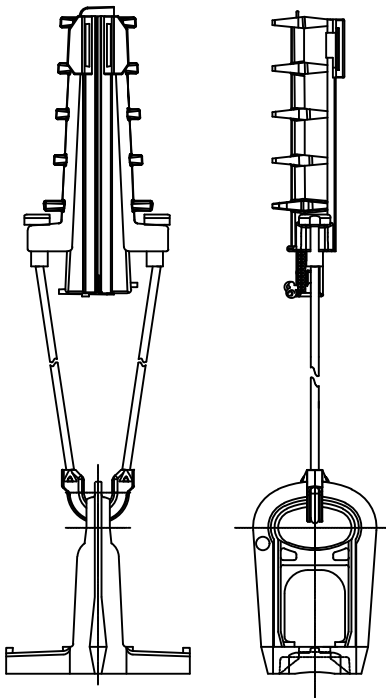
Revamped Distribution Sector Scheme (RDSS)

TITLE:

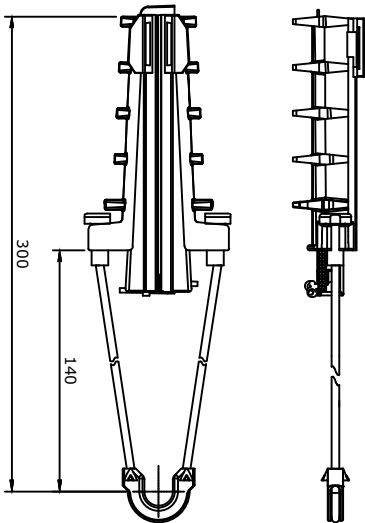
UNIVERSAL POLE BRACKET

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/LT-ACC-ABC/02	1 OF 1	0

ANCHORING ASSEMBLY :-

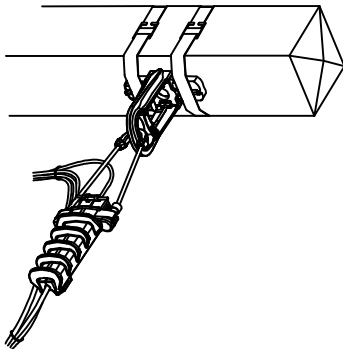


ANCHORING (DEAD-END) CLAMP :-



SPECIFICATION :- AS PER NF C33-041

Messenger Type	Cable Range (mm) ¹⁾	Minimum Breaking Load (kN)
INSULATED/BARE	Min 25 Max 50	10



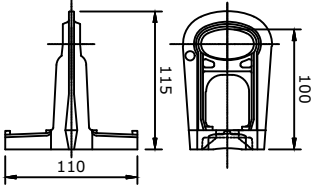
BRACKET :-

NOTE :-

MATERIAL: ALUMINIUM ALLOY

SPECIFICATION :- AS PER NF C33-041

Minimum Breaking Load (kN)
15



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

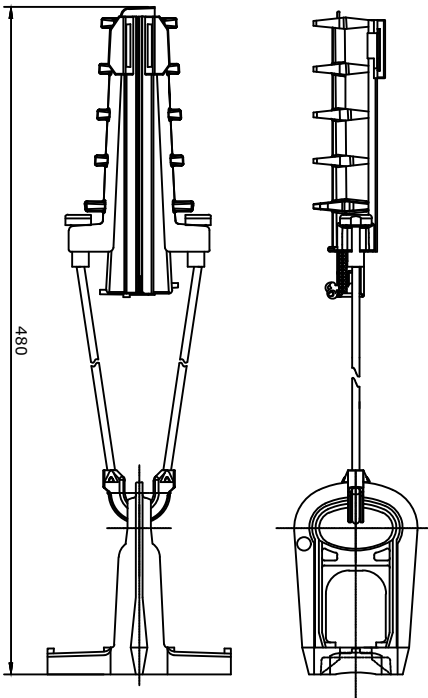
TITLE:

ANCHORING ASSEMBLY (Cable Range-25-50 sq. mm)

REV. NO.	R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/03A	1 OF 1	0

ANCHORING ASSEMBLY :-



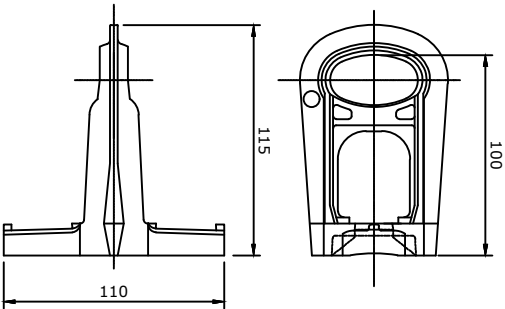
BRACKET :-

NOTE :-

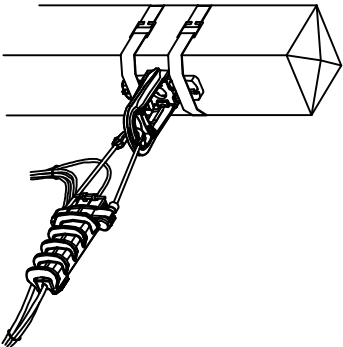
MATERIAL: ALUMINIUM ALLOY

SPECIFICATION :- AS PER NF C33-041

Minimum Breaking Load (kN)
20

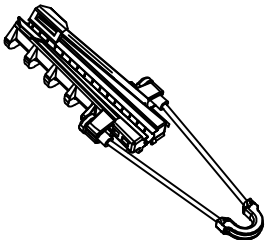


ANCHORING (DEAD-END) CLAMP :-



SPECIFICATION :- AS PER NF C33-041

Messenger Type	Cable Range (mm ²) Min	Max	Minimum Breaking Load (kN)
INSULATED/BARE	70	95	20



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

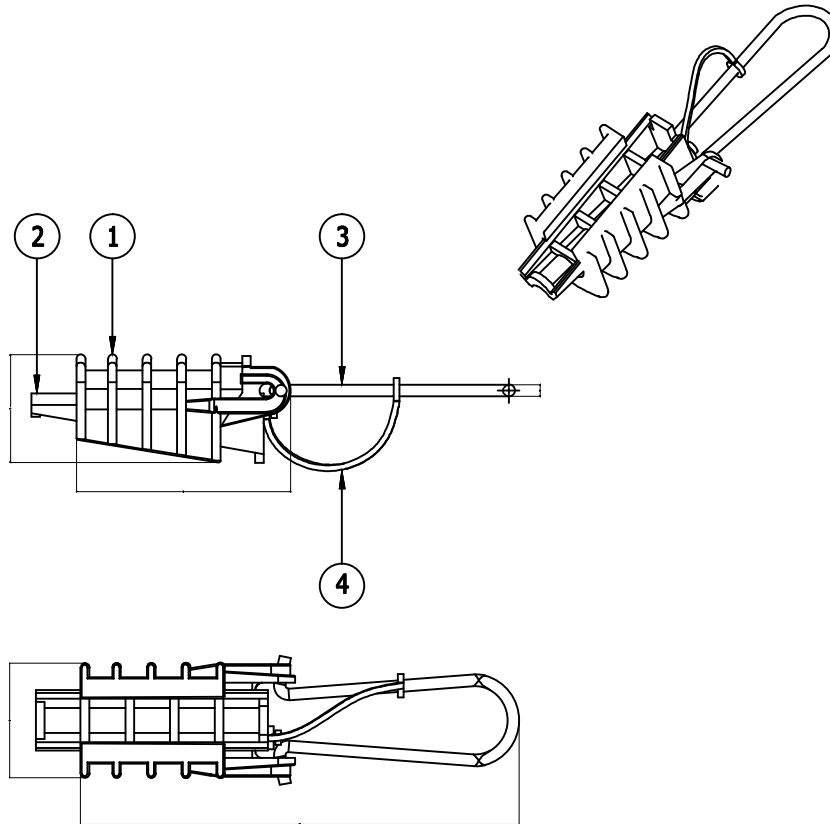
Revamped Distribution Sector Scheme (RDSS)

TITLE:

ANCHORING ASSEMBLY (Cable Range-70-95 sq. mm)

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/03B	1 OF 1	0



4	1	Wedge tie	T.P Elastomer
3	1	Bail	Stainless steel
2	1	Wedge	Thermoplastic
1	1	Body	Thermoplastic
Rep	Qty	Description	Material

FOR TENDER PURPOSE ONLY

Note:- Cable range: Suitable for Ø 3mm - Ø9mm



Rural Electrification Corporation Ltd.

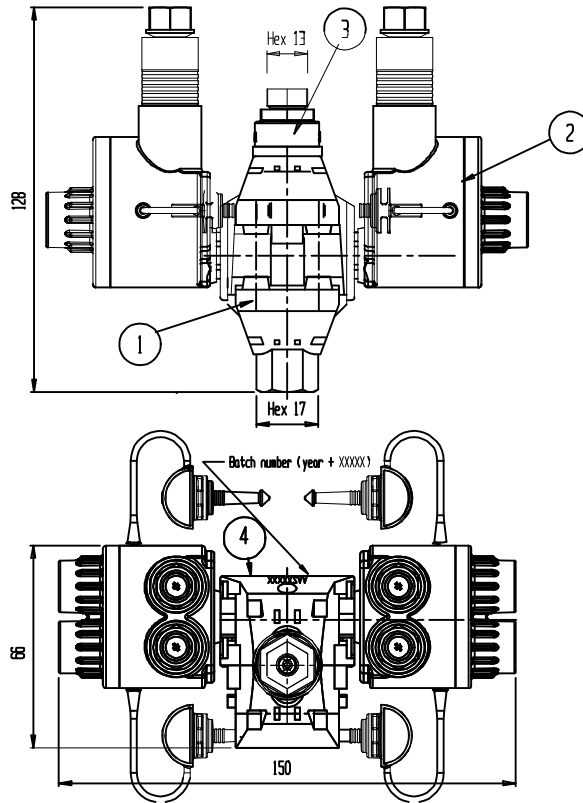
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

SERVICE CLAMP

						SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/LT-ACC-ABC/04	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT					



Rep	Qty.	Description	Material
1	1	Central part	Assembly Drawing
2	1	Plug	Assembly Drawing
3	1	Shearhead	Ploycarbonate GF- natural
4	1	Making	Colour White

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

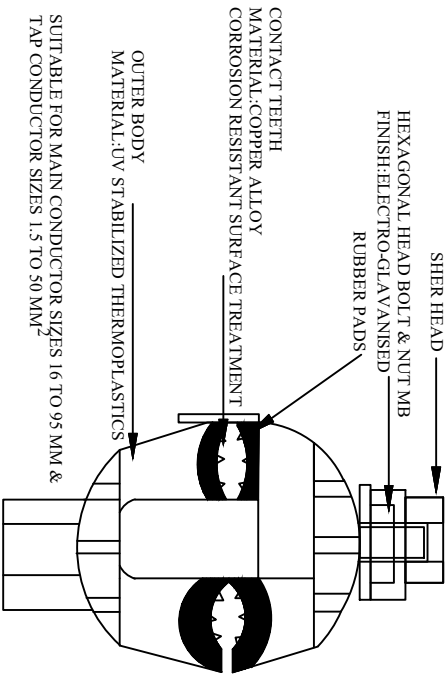
Revamped Distribution Sector Scheme (RDSS)

TITLE

**MUTIPOINT INSULATION PIERCING CONNECTOR
STRIPPING / PIERCING**

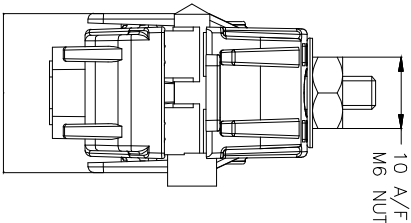
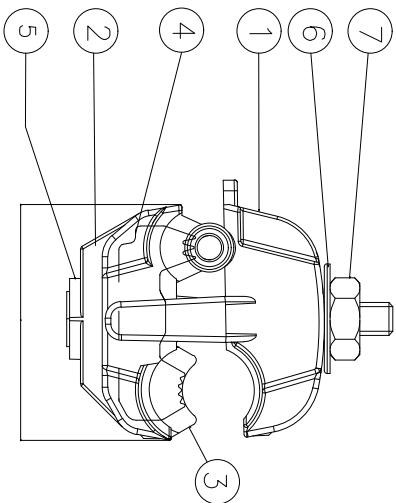
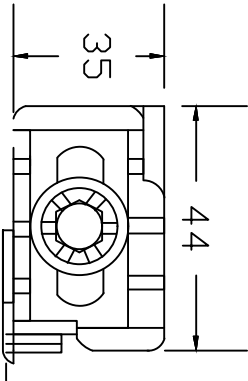
R0	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/05A	1 OF 1	0



SUITABLE FOR MAIN CONDUCTOR SIZES 16 TO 95 MM & TAP CONDUCTOR SIZES 1.5 TO 50 MM²

TOLERANCE : ± 5% FOR ALL DIMENSIONS



CABLE RANGE:

SUITABLE FOR 10 TO 95 SQ.MM MAIN (Bare/Insulated) & 1.5 TO 10 SQ.MM TAP(Bare/Insulated)

WEIGHT: "W" Grams (Approx)

RATED TIGHTENING TORQUE: "X" Nm

7	1	NUT M6	STEEL
6	1	WASHER	STEEL
5	1	SCREW	STEEL
4	2	BLADE	AL ALLOY
3	1	SEAL	T.P. ELASTOMER
2	1	LOWER BODY	THERMO PLASTIC - BLACK
1	1	UPPER BODY	THERMO PLASTIC - BLACK
REP	QTY	DESCRIPTION MATERIAL	

All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

INSULATION PIERCING CONNECTOR

SIZE/SCALE

DRG. NO.

As MTS

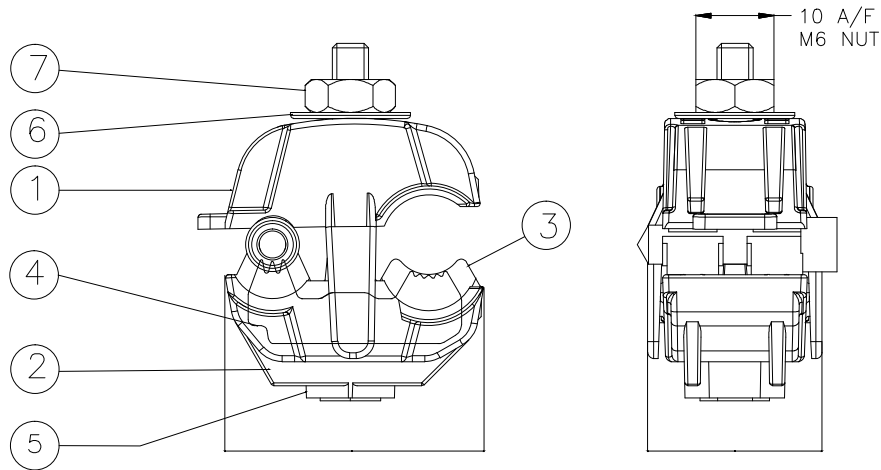
REC/RDSS/LT-ACC-ABC/05B

SHT. NO. REV. NO.

1 OF 1

0

R0					
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



CABLE RANGE:

SUITABLE FOR 10 TO 95 SQ.MM MAIN (Bare/Insulated) & 1.5 TO 10 SQ.MM TAP(Bare/Insulated)

WEIGHT: "W" Grams (Approx)

RATED TIGHTENING TORQUE: "X" Nm

7	1	NUT M6	STEEL
6	1	WASHER	STEEL
5	1	SCREW	STEEL
4	2	BLADE	AL ALLOY
3	1	SEAL	T.P.ELASTOMER
2	1	LOWER BODY	THERMO PLASTIC - BLACK
1	1	UPPER BODY	THERMO PLASTIC - BLACK
REP	QTY	DESCRIPTION	MATERIAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

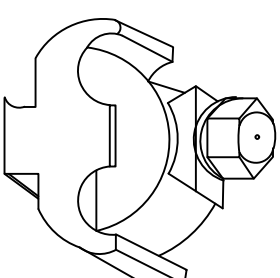
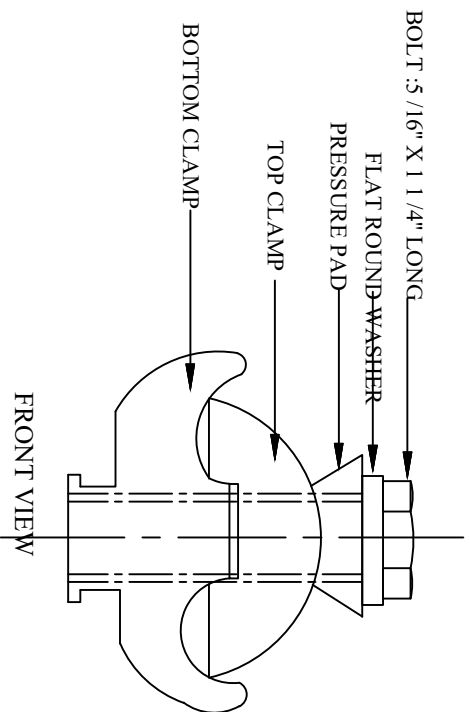
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

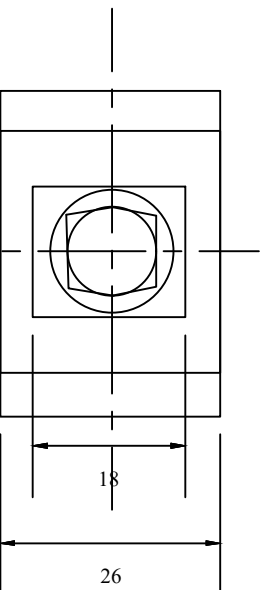
TITLE

EARTHING CONNECTOR

R0						SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	A4	1:100	REC/RDSS/LT-ACC-ABC/06A	1 OF 1	0



ISOMETRIC VIEW



TOP VIEW

SUITABLE FOR 2.5 mm² TO 50 mm² CONDUCTOR

material of clamp body : extruded aluminium alloy
finish:natural & degreased
material of bolt & washer : Mild steel
finish: electro-zinc plated
tolerance : $\pm 5\%$ for all dimensions.

All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

EARTHING CONNECTOR

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

As MTS

REC/RDSS/LT-ACC-ABC/06B

1 OF 1

0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

REP	QTY	DESCRIPTION	MATERIAL	COLOUR
4	1	MOUNTING BRACKET CS14	HEAT TREATED ALUMINIUM ALLOY	NA
3	2	MOVABLE LINK LM54 / LM 1500	THERMO PLASTIC	BLACK
2	1	LEVER PS 6-14	THERMO PLASTIC	BLACK
1	1	BODY/PS 54 / PS 1500	THERMO PLASTIC	BLACK

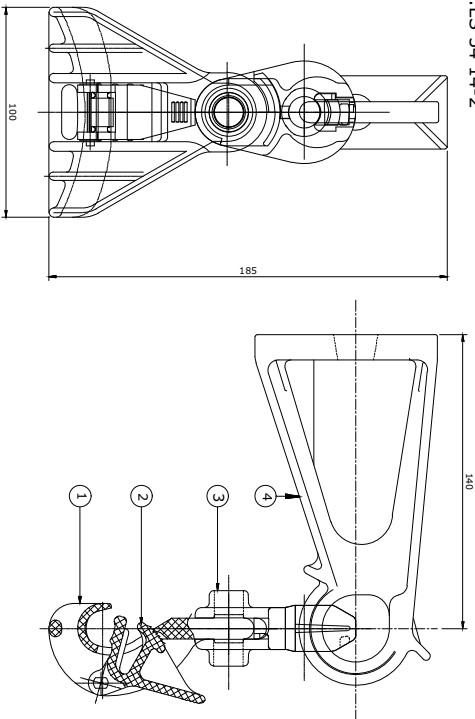
SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL: SEE TABLE

WEIGHT: 380 GRAMS (Approx)

MARKING: ES 54 14-2



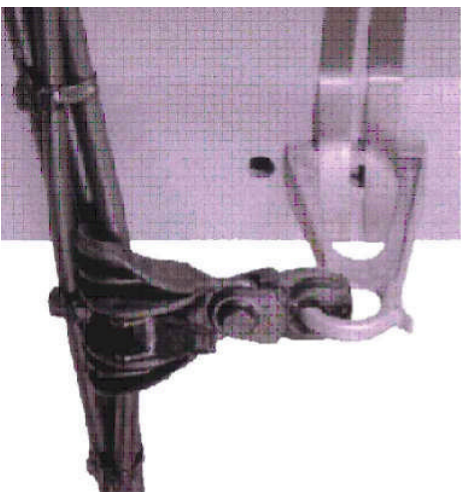
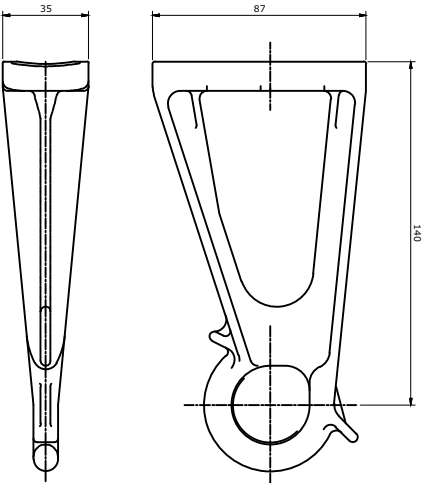
BRACKET :- CS 14

NOTE :-

MATERIAL: HEAT TREATED ALUMINIUM ALLOY

MARKING: CS 14

SPECIFICATION :- AS PER NFC33040



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

Product Reference	Messenger Type	Cable Range (mm ²) Min	Cable Range (mm ²) Max	Dia (mm) Min	Dia (mm) Max
ES 54 14-2	INSULATED	25	70	6	14

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

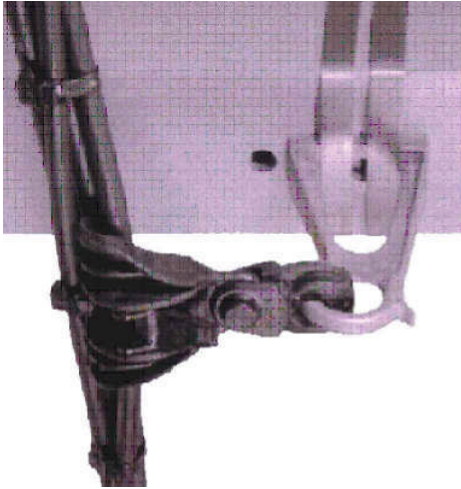
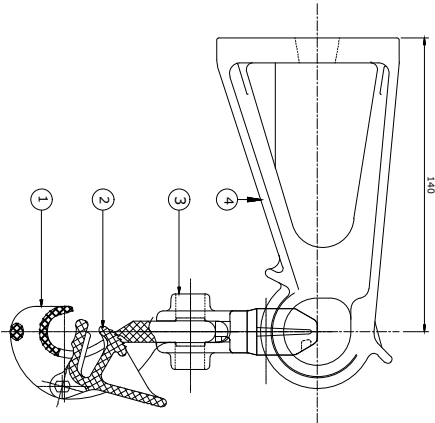
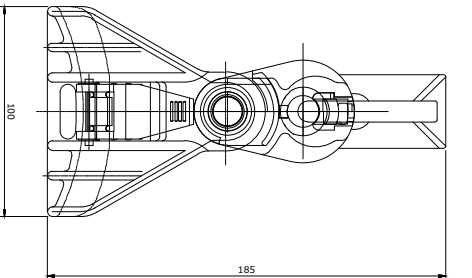
SUSPENSION ASSEMBLY
(Cable Range 25-70 sq. mm)

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/LT-ACC-ABC/07A	1 OF 1	0

SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL: SEE TABLE



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

Messenger Type	Cable Range (mm ²)		Load KN
	Min	Max	
INSULATED/BARE	25	50	12

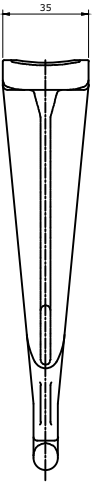
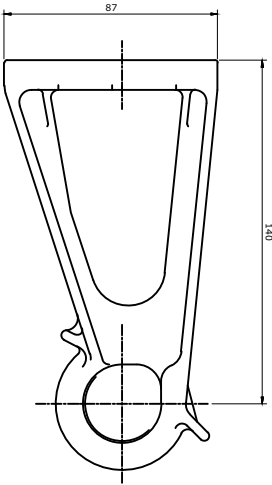
REP	QTY	DESCRIPTION	MATERIAL	COLOUR
4	1	MOUNTING BRACKET	HEAT TREATED ALUMINIUM ALLOY	NA
3	2	MOVABLE LINK	THERMO PLASTIC	BLACK
2	1	LEVER	THERMO PLASTIC	BLACK
1	1	BODY	THERMO PLASTIC	BLACK

BRACKET :-

NOTE :-

MATERIAL: HEAT TREATED ALUMINIUM ALLOY

SPECIFICATION :- AS PER NFC33040



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

SUSPENSION ASSEMBLY
(Cable Range 25-50 sq. mm)

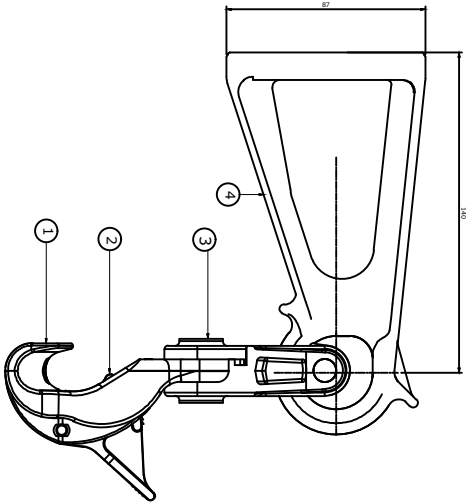
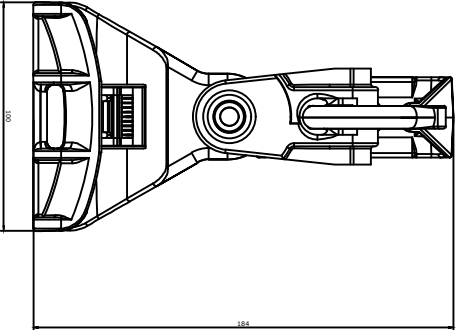
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/L-T-ACC-ABC/07B	1 OF 1	0

SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL : SEE TABLE

4	1	MOUNTING BRACKET	HEAT TREATED ALUMINIUM ALLOY	NA
3	2	MOVABLE LINK	THERMO PLASTIC	BLACK
2	1	LEVER PS	THERMO PLASTIC	BLACK
1	1	BODY	THERMO PLASTIC	BLACK
REP	QTY	DESCRIPTION	MATERIAL	COLOUR

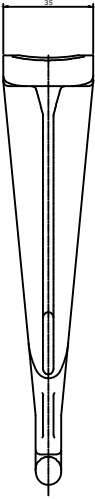
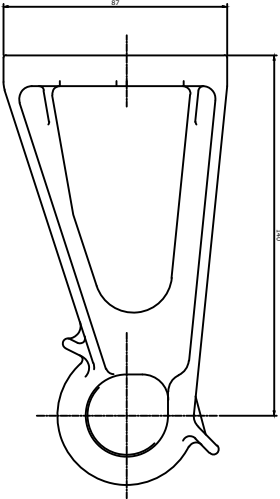


BRACKET :-

NOTE :-

MATERIAL : HEAT TREATED ALUMINIUM ALLOY

SPECIFICATION :- AS PER NFC33040

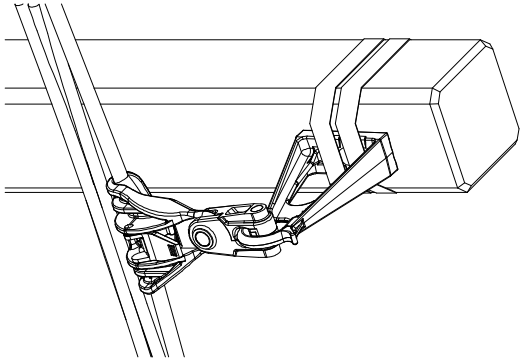


GENERAL TOLERANCE ON DIMENSIONS: ± 5%

SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

Messenger Type	Cable Range (mm)		Load KN
	Min	Max	
INSULATED/BARE	70	95	15



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

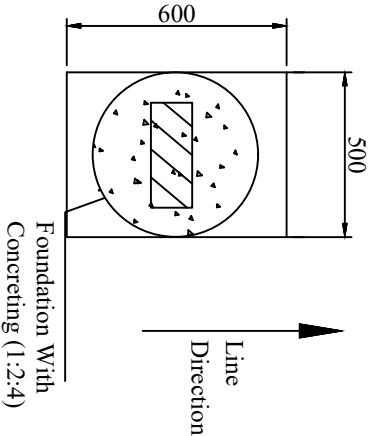
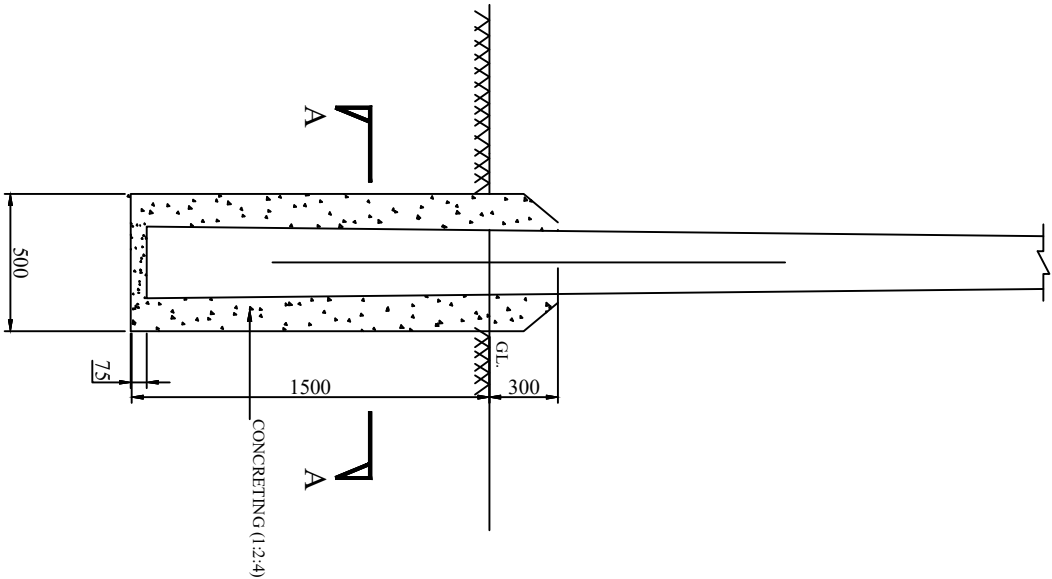
TITLE:

SUSPENSION ASSEMBLY
(Cable Range 70-95 sq. mm)

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/07C	1 OF 1	0

S.NO.	Description	Vol. in m ³
1	Excavation (0.5Ø x0.6x1.5M)	0.45
2	Concreting (Ø0.5x0.05x 1/6th length in mm) +0.014 Cut for muffing	

All Dimensions are in mm unless otherwise mentioned



- NOTES:-**
- 1.UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM.
 - 2.THIS ARRANGEMENT SHALL BE USED FOR ALL TAPPING POLES ,DEAD END POLES , DTC ANGULAR POLES, CROSSING, 2/4 POLE STRUCTURES AND FOR ALL 33 KV POLES.

FOR TENDER PURPOSE ONLY

Concrete Foundation For PSC Poles

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/GEN/01	1 OF 1	0		

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

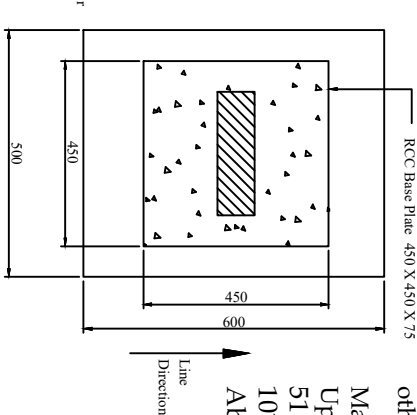
TITLE: CONCRETE (PCC) FOUNDATION DETAILS FOR PSC POLES

S.No.	Description	Vol. in m ³
1	Excavation (0.5x0.6x1.5M)	0.45
2	RCC Base Plate Size (0.45X0.45X0.075 M)	0.015

All Dimensions are in mm unless
otherwise mentioned

Manufacturing Tolerance as Follows

Upto 50mm	: ± 5%
51 to 100mm	: ± 4%
101 to 300mm	: ± 3%
Above 300mm	: ± 2%



NOTES:-

1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM.
2. AGGREGATES OF SIZE <80 MM (LARGE SIZE AS PER TABLE-3 OF IS 383).

FOR TENDER PURPOSE ONLY

 Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)	

TITLE: FOUNDATION DETAILS OF PSC/PCC Pole

FILLING WITH EXCAVATED SOIL, BRICKBATTING & COMPACTION)

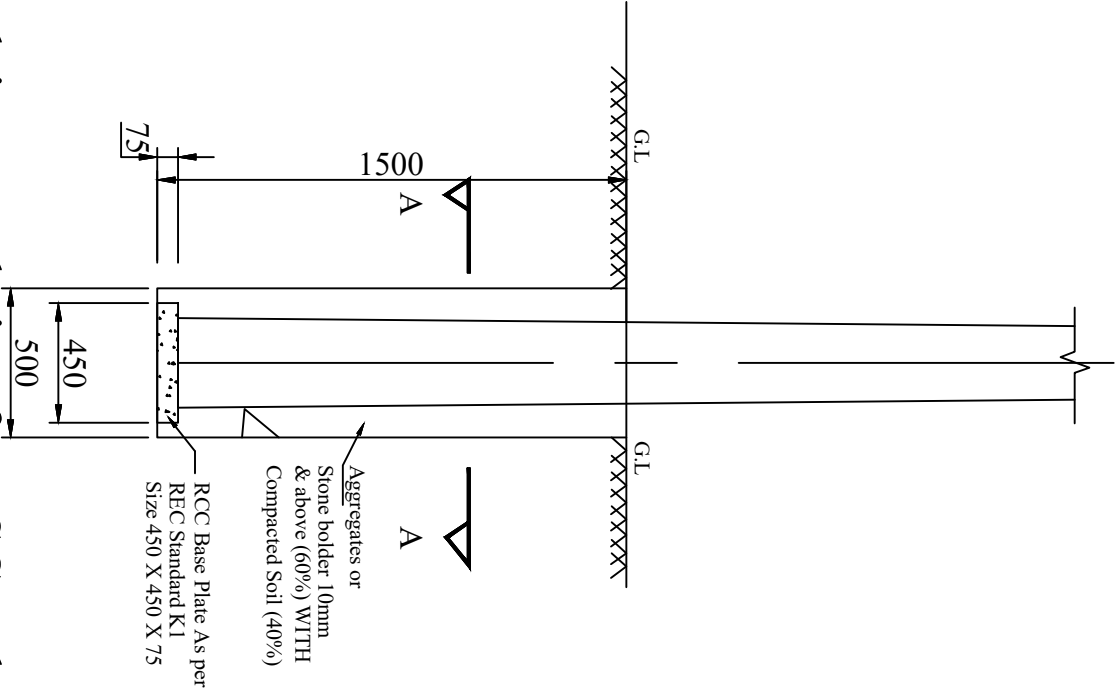
SIZE/SCALE: DRG. NO.

As MTS REC/RDSS/GEN/02

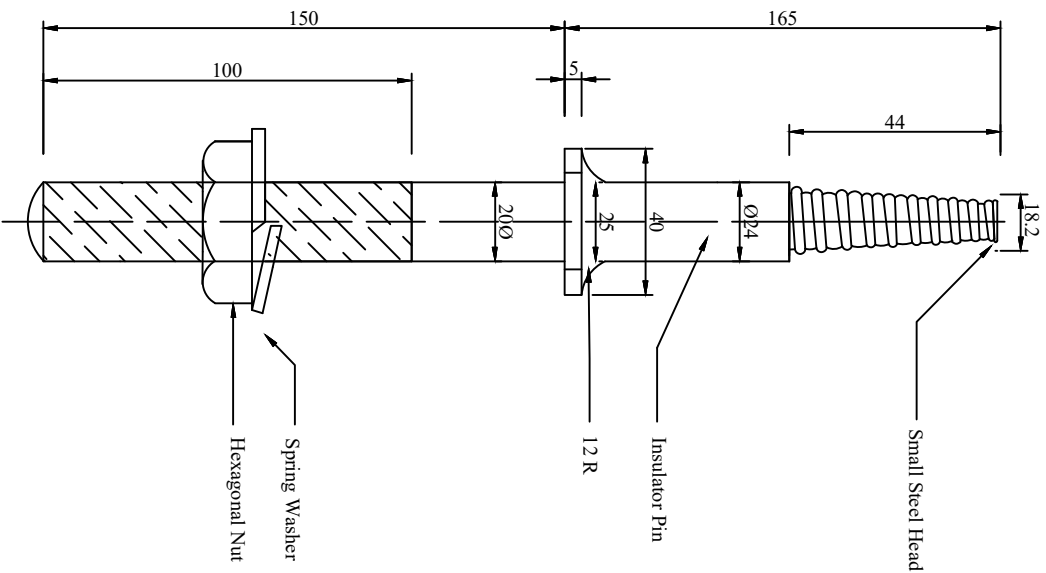
SHT. NO. REV. NO.

1 OF 1 0

Plain Foundation for PSC Pole



REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



NOTES:-

- 1) PIN AS SHOWN SUITABLE FOR METAL CROSS ARM.
- 2) FOR WOOD CROSS ARM INSTEAD OF SPRING WASHER, USE TWO SQUARE WASHERS 50X50X5 MM. ONE ON TOP AND THE OTHER AT BOTTOM.
- 3) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 4) MANUFACTURING TOLERANCE AS FOLLOWS

UP TO 50mm	: ±5%
51 TO 100mm	: ±4%
101 TO 300mm	: ±3%
ABOVE 300mm	: ±2%

FOR TENDER PURPOSE ONLY

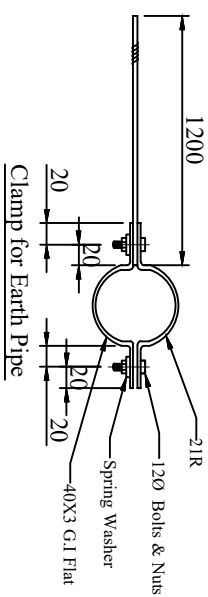


PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: PIN INSULATOR

						SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/RDSS/GEN/03	1 OF 1	0
R0										
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT					

BILL OF MATERIAL							
S.NO.	DESCRIPTION	ERECTION MARK	SECTION	LENGTH in MM	Wt/Mtr Kg/M	QTY	TOTAL Wt. Kg
1	Clamp for Earth Pipe		G1 Flat 40x3	146	0.942	2 Nos	0.275
2	Bolts & Nuts		M12	30	0.057	2 Nos	0.114
3	Spring Washer		M12	3.5mm Thk.	0.006	2 Nos	0.012
						TOTAL WT.	0.401



1. ALL DIMENSIONS ARE IN MM.
2. EARTH TERMINAL OF G.I STRIP 40x3 WITH 2 NOS. 120 STUDS.
3. MANUFACTURING TOLERANCE.
UP TO 50mm \pm 5%
51 TO 100mm \pm 4%
101 TO 300mm \pm 3%
ABOVE 300mm \pm 2%
4. MS PARTS SHALL CONFIRM TO IS:2062
5. ALL MS PARTS TO BE HOT DIP GALVANISED AS PER IS 2629 & 4759.

6. WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE ONLY.

Rural Electrification Corporation Ltd.

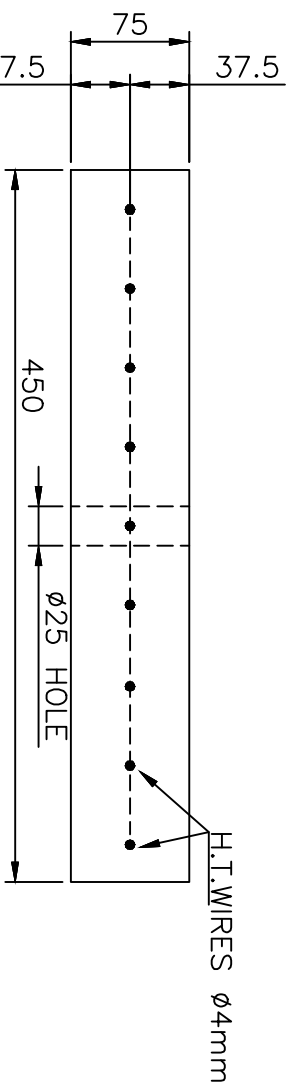
Revamped Distribution Sector Scheme (RDSS)

PIPE TYPE EARTHING

REC/RDSS/GEN/04

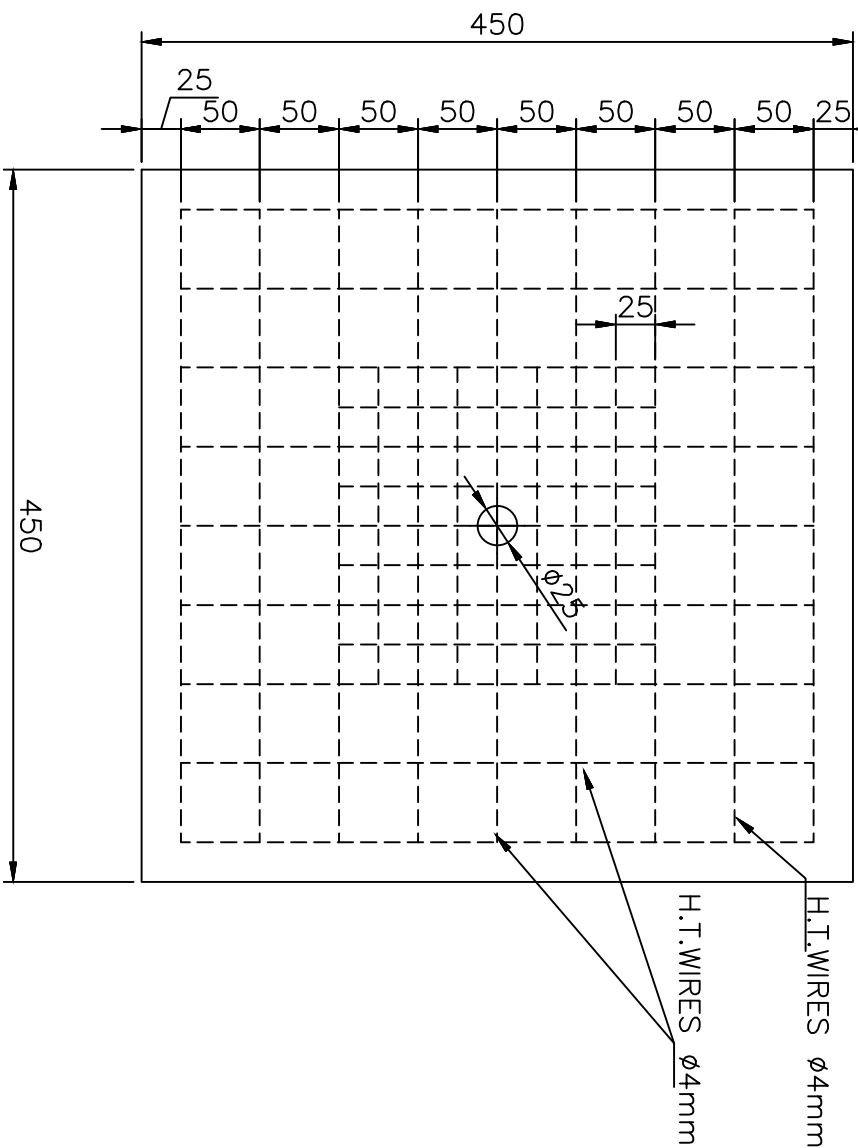
SHT. NO.	REV. NO.
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1 OF 1	0
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NOTES:-

- 1) THE CONCRETE MIX SHALL BE OF M15 GRADE
- 2) BASE PLATE IS NOT NECESSARY FOR CONCRETE LOCATIONS
- 3) EQUIVALENT SIZE OF STONE PAD CAN BE USED AS BASE PLATE WHEREVER AVAILABLE ECONOMICALLY.
- 4) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

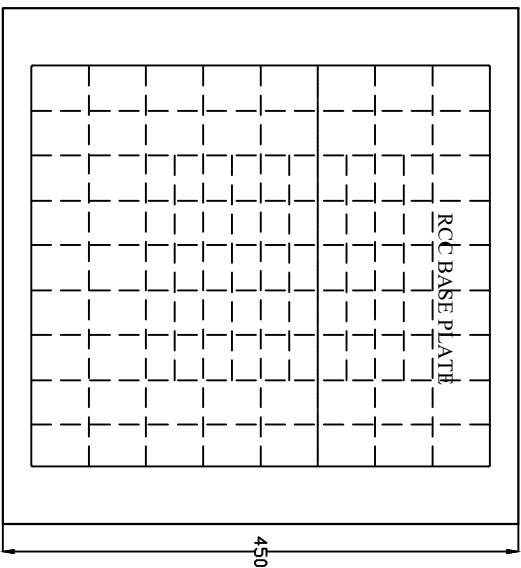
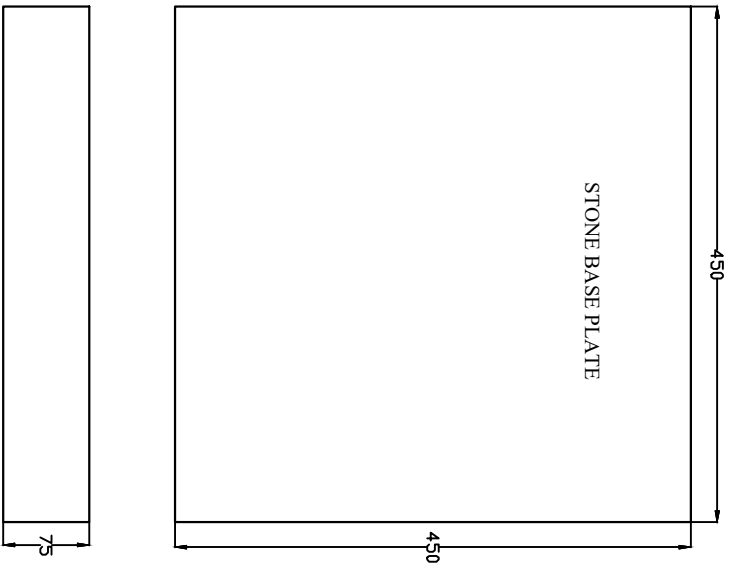
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE


RCC BASE PAD FOR PCC POLE

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	COMMON FOR ALL PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/GEN/05A	1 OF 1	0	



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



REC
Rural Electrification Corporation Ltd.

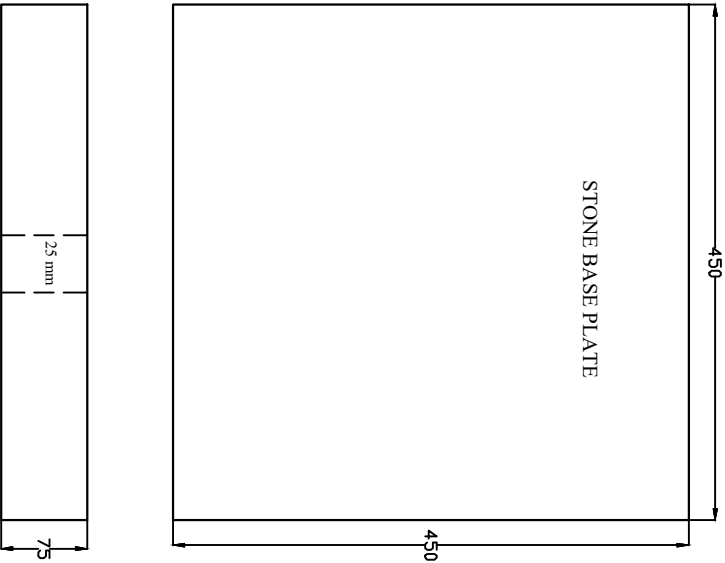
PROJECT

Revamped Distribution Sector Scheme (RDSS)

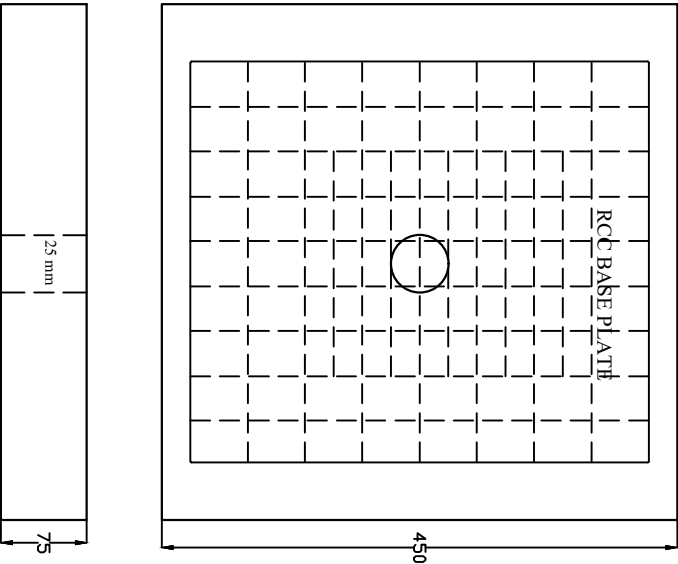
TITLE
DRAWING FOR STONE/RCC BASE PLATE
FOR STAY SET

SIZE/SCALE	PRG. NO.	SFT. NO.	REV. NO.
AS NOTED	REC/RDSS/GEN/05B	1 OF 1	0

RD	DESIGNED	CHECKED	APPROVED	DATE	PROJECT
REC/NO.	REC/NO.	REC/NO.	REC/NO.	REC/NO.	REC/NO.



50
250
25 mm
HT Wire 4 mm



FOR TENDER PURPOSE ONLY

All dimensions are in mm.



PROJECT: Revamped Distribution Sector Scheme (RDSS)

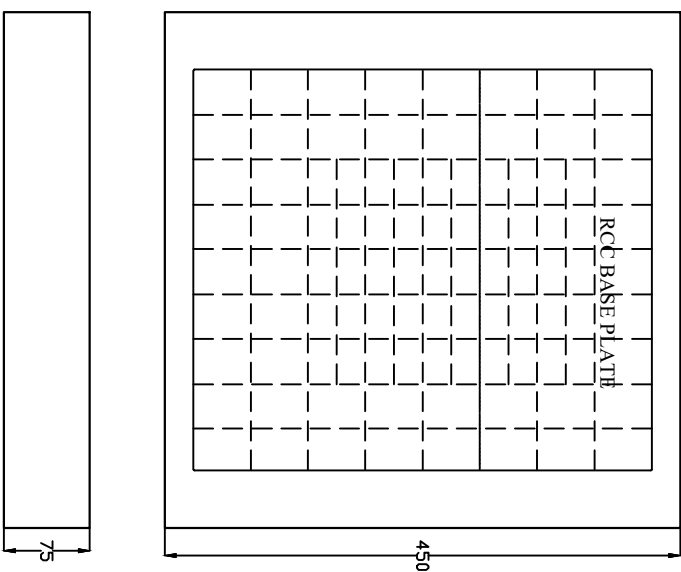
TITLE: DRAWING FOR STONE/RCC BASE PLATE
FOR STAY SET

SIZE/SCALE: DRG. NO.

NO. OF SETS: REC/RDSS/GEN/SC

RD	DESIGNED	CHECKED	APPROVED	SCALE	PROJECT
REV. NO.	1	2	3	4	5

SFT. NO.	REV. NO.
1 OF 1	0



All dimensions are in mm.

		DRG. NO.	SHT. NO.	REV. NO.
	SIZE/SCALE	REC/RDSS/GEN/5D	1 OF 1	0
	AS NTS			
RO				
DATE/ADDED	PRODUCT			
DATE/ADDED	NAME			
DATE/ADDED				
DATE/ADDED				

Type	Connected Load	Size
Twin Core Thermoplastic Insulated W.P. Cables As PER IS 3035 (Part-I) IS 3035 (Part-III)	Upto 2 KW Above 2 KW to 4 KW	2.5 mm ² 4.0 mm ²

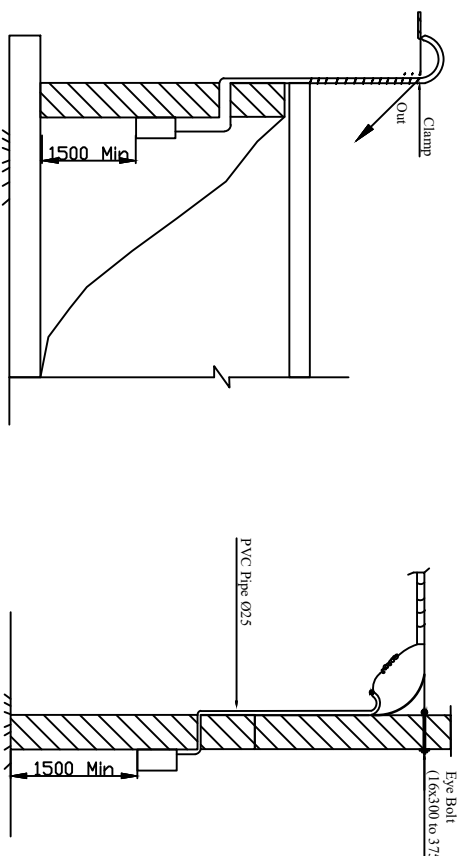
Dimension	Across the Road	Along the Road	Else Where
A	5800	5500	4000

Tiled Roofing or Other Gabled Roofing

Diagram illustrating the cross-section of a Tiled Roofing or Other Gabled Roofing system, showing the roof structure and components.

Key components and labels:

- ROAD**: Indicated on the left side of the diagram.
- 1500 (Min.)**: Dimension indicating the minimum distance from the road to the roof edge.
- Meter Board**: A board used for measuring the roof slope.
- Guy (G.I. Wire 3.15 mm)**: A wire used for structural support.
- Service Support/ 200 G.I. Pipe or L 35x 35x5 with 25 Ø PVC Pipe**: A pipe used for service support.
- Thermoplastic Insulated Weather Proof Cable**: A cable used for weatherproofing.
- G.I. Wire 3.15mm**: A wire used for structural support.
- Wooden Batten**: A batten used for structural support.



Multi Storey or Single Storey Building with High Roofing

					SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0							1 OF 1	0
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT			

1. The Maximum Span to be limited to 35 Meters.
2. Before wire 3, 15mm size (10SWG) will be of Hard Quality as per IS: 280-1962
- 3(a). G.I. Pipe 200 will be of Medium Class as per IS: 1161-1968.
- (b) Alternatively L 35x3 5x5 with 250 PVC Pipe as per IS: 2509-1963 may be used.
4. Clamps to be made from 40x3 M.S. Flat

आर.ए.सी.
REC
संवर्धन एवं ग्रामीण बिजली
विभाग, राजस्थान
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

TITLE
LT Service Connection Single Phase

SIZE	SCALE	DRG. NO.
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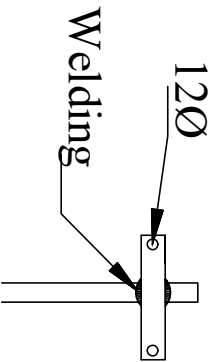
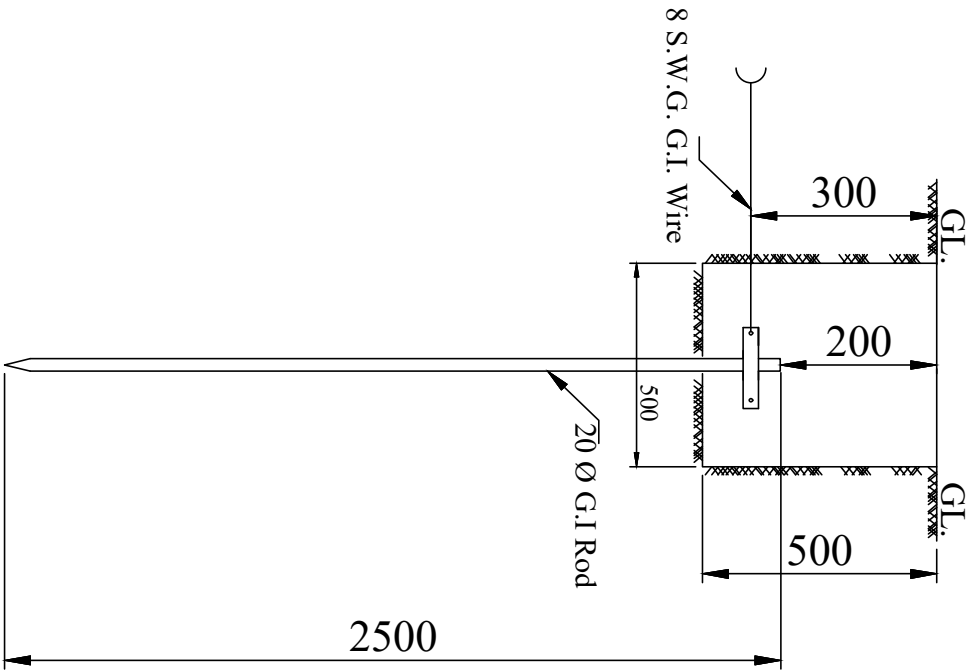
A3	NTS
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REC/RDSS/GEN/06

SHT. NO.	REV. NO.
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IOFI	0
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BILL OF MATERIALS						
ERE. CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	Wt./Mtr. Kg./Mtr.	Total Wt. (in Kg.)
1	Earth Spike Rod	Dia.20	2500	1	2.500	6.250
2	Clamp for Earth Spike	40x3	190	1	0.900	0.171
3	Bolt & Nuts	M12	30	1	0.058	0.058
4	Spring Washers (3.5 THK.)	M12		1	0.004	0.004
TOTAL						6.483



NOTES:-

1. ALL DIMENSIONS ARE IN MM.
2. EARTH TERMINAL SHOULD BE MADE OF G.I STRIP 40x3 WITH INO. 120 STUD.
3. MANUFACTURING TOLERANCE.
UPTO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
4. CLAMP IS TO BE WELDED TO SPIKE.
5. THE WHOLE ASSEMBLY IS TO BE HOT DIP GALVANISED(S:2629&4759)
6. ALL MS PARTS SHALL CONFIRM TO IS :2062
7. WEIGHT MENTIONED IS FOR PACKING AND FORWARDING PURPOSE ONLY.

FOR TENDER PURPOSE ONLY

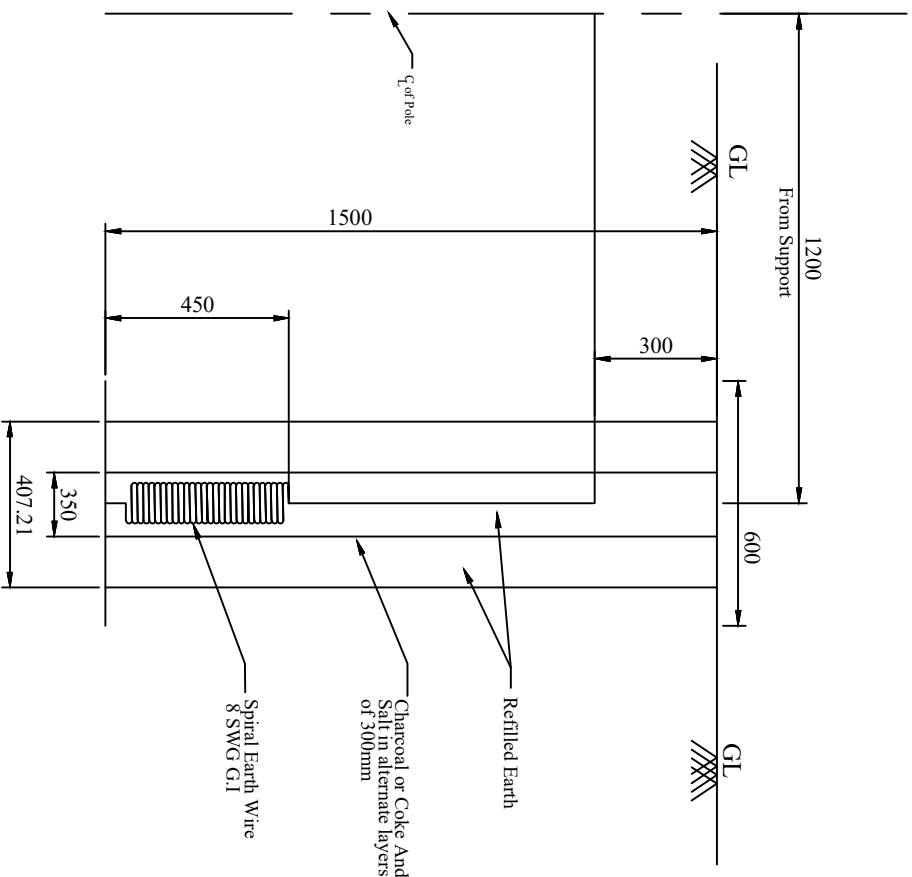
	अरु ई सी REC Rural Electrification Corporation Ltd.
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PROJECT: Revamped Distribution Sector Scheme (RDSS)

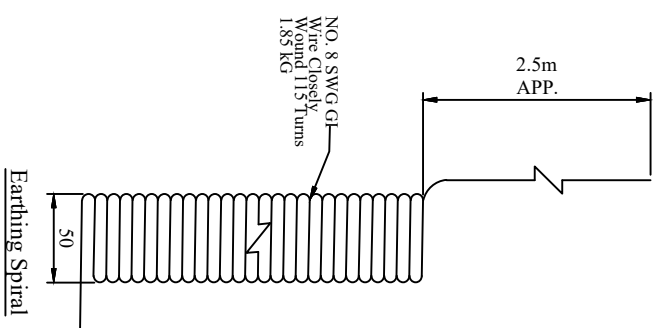
TITLE: SPIKE TYPE EARTHING FOR NORMAL SOIL

SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/GEN/07	1 OF 1	0

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



Coil Earthing Details



NOTES:-

- 1) All dimensions are in mm unless otherwise mentioned.
- 2) Manufacturing Tolerance.
- a) Dia of GI wire : $\pm 2.5\%$
- b) All other dimensions as given below
- 3) MS wire shall conform to IS 280
- 4) All MS parts shall be hot dip galvanised as per IS 2629 and IS 4759.
- 5) In rocky areas where digging upto 1500 mm is not possible, earthing arrangement in horizontal configuration buried at a depth not less than 800 mm shall be used.
- 6) Weight mentioned is for packing and forwarding purpose only.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
SPIRAL EARTHING DETAILS

R0					COMMON FOR ALL				
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT				
						SIZE	SCALE	DRG. NO.	SHT. NO.
						A3	NTS	REC/RDSS/GEN/08	1 OF 1
									REV. NO.
									0