

TENDER DRAWINGS

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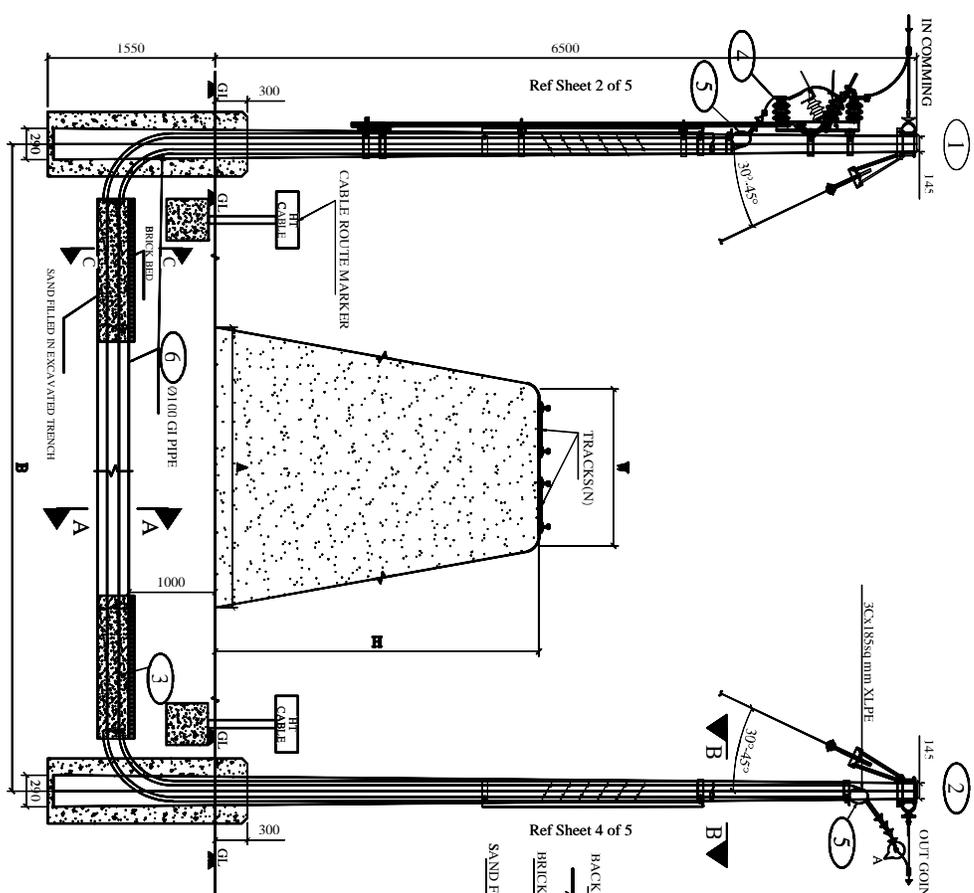
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2	Universal Pole Bracket	REC/RDSS/LT-ACC-ABC/02
3	Anchoring Assembly (Cable Range 25-50 sqmm.)	REC/RDSS/LT-ACC-ABC/03A
4	Anchoring Assembly (Cable Range 70-95 sqmm.)	REC/RDSS/LT-ACC-ABC/03B

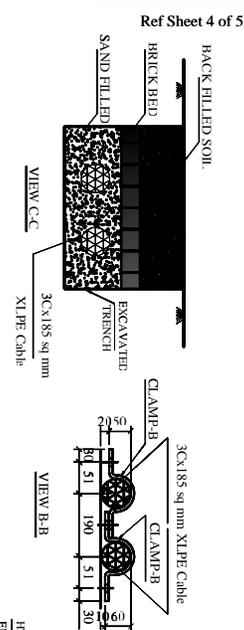
5	Service Clamp	REC/RDSS/LT-ACC-ABC/04
6	Multiport Insulation Piercing Connector Stripping/Piercing	REC/RDSS/LT-ACC-ABC/05A
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3	Ground Floor Counter Aluminium Partition	REC/RDSS/CIVIL/03
4	Ground Floor Toilet Layout	REC/RDSS/CIVIL/04
5	Ground & First Floor Electrical Layout	REC/RDSS/CIVIL/05
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17	Concreting of PSC/PCC Pole for Transformer Mounting	REC/RDSS/CIVIL/17



- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
 - 2) LENGTH OF GI PIPE DEPENDS ON WIDTH OF TRACK.
 - 3) LENGTH OF XLP CABLE DEPENDS ON SPAN BETWEEN TWO ARRANGEMENTS.
 - 4) GI PIPE SHALL BE LAYED UP TO BOTTOM WIDTH OF RAILWAY TRACK AND FROM ABOVE GROUND LEVEL, TO TOP BELTING ANGELS, ON EITHER SIDE OF CROSSING.



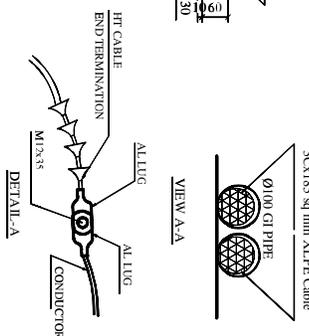
RAILWAY CROSSING DETAILS

NAME OF THE BRANCH LINE	A	B	H	W	N
	LENGTH IN METERS				
ATTABIRA TO SAMBALPUR	8.5	4.5	6	2.5	2
BARGARH TO ATTABIRA	8.5	4.5	6	2.5	2
BARGARH TO BARPAJI	8.5	4.5	6	2.5	1
BARGARH TO BARPAJI	8.5	4.5	6	2.5	2
BARGARH ACC. TO DINGIRI	24	24	5	2.5	1
BARGARH ACC. TO DINGIRI	24	24	5	2.5	1

A- WIDTH OF TRACK BOTTOM
 B- RAILWAY BOUNDARY
 H- HEIGHT OF RAIL TRACK
 W- WIDTH OF RAIL TRACK TOP

BILL OF MATERIAL

S.NO	DESCRIPTION	QTY.	Ref Drawing No.
1	Double Pole with Sectionaliser	1 No	Sheet 2 of 5, 3 of 5
2	Double Pole Structure	1 No	Sheet 4 of 5, 5 of 5
3	11kV XLP Cable(3CX185sqmm)	As Req.	Two Runs
4	All Lugs Termination of Cable	6 Nos.	Cable to Conductor, Cable to AB Switch
5	XLP Termination Kit	4 Set	2 sets per DP
6	100 Dia GI Pipe	As Req.	Two Runs(As Per Track width)



FOR TENDER PURPOSE ONLY

REV NO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

REC **राजकोश** Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

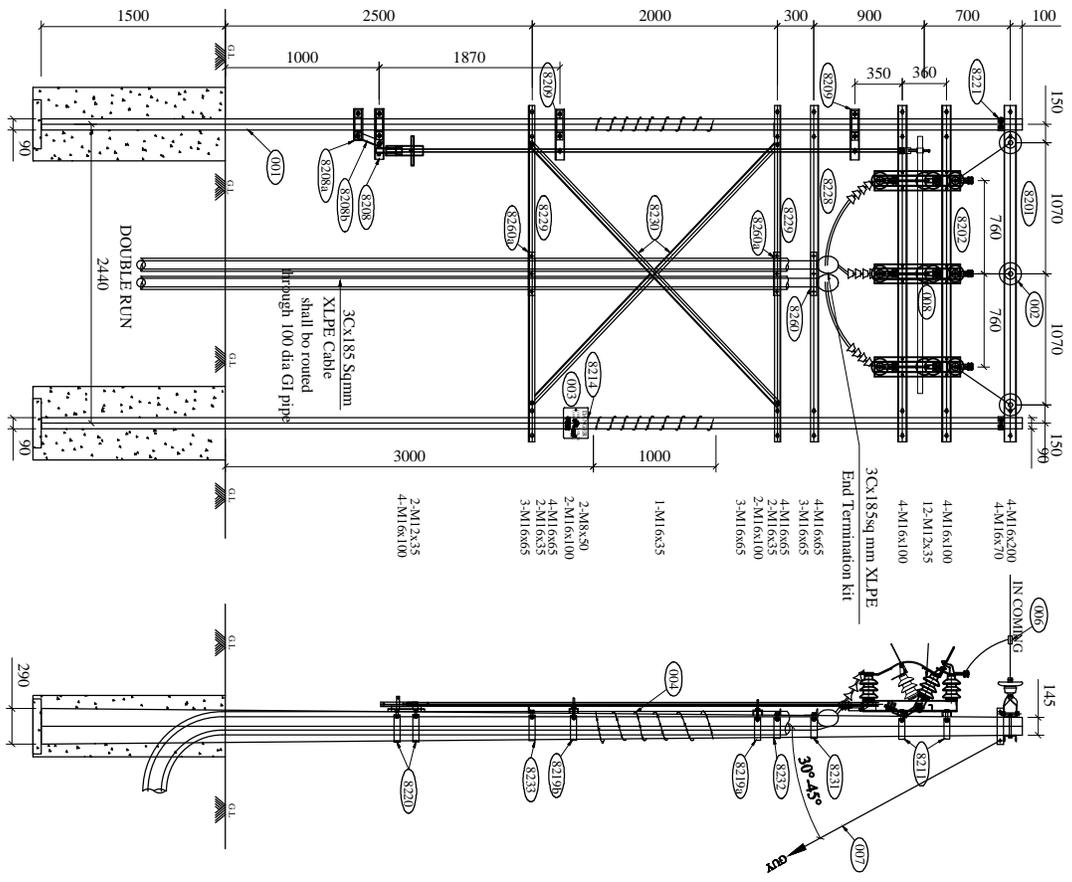
PROJECT: GA OF 11 KV LINE CROSSING OF RAILWAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES

SCALE: NTS SIZE A3

DRG NO: REC/RDSS/11KV/02A

REV NO: R0

SHT NO: 1 OF 1



ERE CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	Wt./Mtr. Kg./Mtr.	Total Wt. (in Kg.)
001	8m/200kg PSC Pole			2		
002	11KV Disc Insulator with Hardware			3		
003	11 KV Dangle Board			1		
004	Barbed wire			As Req		
005	P/G Clamps			3		
006	Stay Set Arrangement			2		
007	AB switch (RAYCHEM)			1 set	7.900	42.502
8201	Top Channel	100x50	2680	2	5.700	30.905
8202	AB Switch Mounting Channel	75x40	2711	2	5.700	2.633
8208	Channel Support for Operating Handle	75x40	482	1	5.700	1.482
8208a	Channel Support for Operating Handle	75x40	260	1	5.700	1.080
8209	Channel Support for Operating Rod	50x30x6	240	1	4.500	4.446
8210	Channel Support for Operating Rod	75x40	340	2	5.700	6.443
8211	Clamp for AB Switch	50x8	513	4	3.140	1.256
8214	Clamp for Dangle Board	30x3	660	21	0.701	1.472
8219a	Clamp for Operating Rod Support	50x8	559	1	3.140	1.925
8219b	Clamp for Operating Rod Support	50x8	613	1	3.140	4.277
8220	Clamp for Operating Handle	50x8	681	2	3.140	4.393
8221	Clamp for Stay Set	50x8	349	4	3.140	36.589
8229	Belling Angle	50x30x9	2711	3	4.500	26.028
8230	Bracing Angle	50x30x6	2882	2	4.500	3.397
8231	Top Clamp for Belling Angle	50x8	541	2	3.140	3.473
8232	Clamp A for Belling Angle	50x8	553	2	3.140	3.925
8233	Clamp B for Belling Angle	50x8	625	2	3.140	4.522
8260a	Clamp A GI Pipe	50x8	360	4	3.140	1.277
8260	Clamp B for XP Cable	50x8	275	2	3.140	1.727
809	Fish Plate	50x8	300	6	3.140	5.652
TOTAL WEIGHT						187.617

FOR TENDER PURPOSE ONLY

- GENERAL NOTES**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - FOR LIFTING REF. TO IS: 8000, IS: 8001, IS: 8002
 - FOR INFORMATION DETAILS REF. TO IS: 8000, IS: 8001, IS: 8002
 - ALL CHANNELS & ANGLES SHALL CONFORM TO IS: 8000 PART 1
 - ALL MS PARTS SHALL CONFORM TO IS: 8002
 - ALL MATERIALS SHALL BE HOT-DIP GALVANIZED AS PER IS: 8002 & IS: 1789

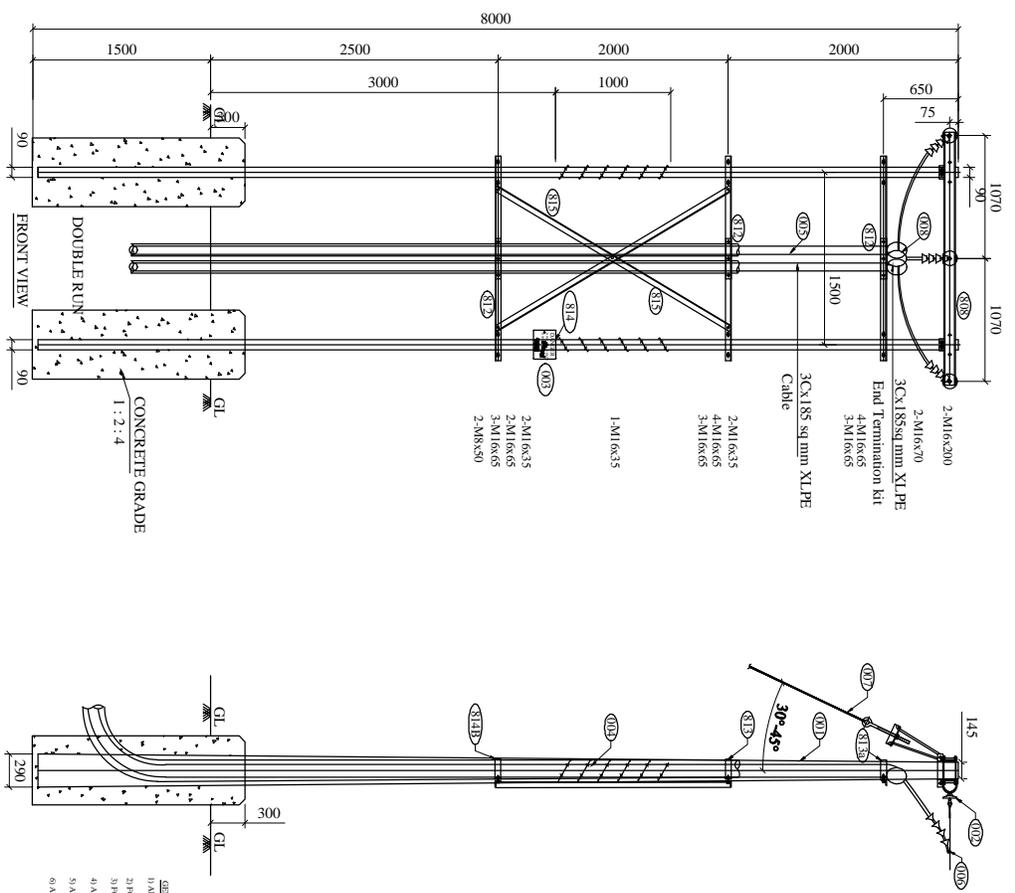


Rural Electrification Corporation Ltd.

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

REV. NO.	DATE	PROJECT	SCALE	DRG. NO.	REV. NO.
R0			NTS		R0
PREPARED BY	CHECKED BY	APPROVED BY	SIZE		SHT. NO.
			A3		1 OF 2



- GENERAL NOTES
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) FOR BELLING REF. BK/LS/NS/SL/RE. CEN. 06
 - 3) FOR BELLING DETAILS REF. DMC. NO. SINC/LE. D/LS/09
 - 4) ALL CHANNELS & ANGLES SHALL CONFORM TO IS 806 PART 1
 - 5) ALL NUT PARTS SHALL CONFORM TO IS 2062
 - 6) ALL NUT PARTS SHALL BE HOT DIP GALVANIZED AS PER IS 2094 & IS 4759

FOR TENDER PURPOSE ONLY

ERE CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	WT./Mtr. (in Kg./Mtr.)	Total Wt. (in Kg.)
001	8mm/200x50 FSC Pole			2		
002	11KV Disc. Insulator with Hardware			3		
003	11 KV Dangle Board			1		
004	Belled wire			As Req		
006	P-6 Clamps			3		
007	Stay Set Arrangement kit			2		
808	Top Channel	1100x50	2200	2	7.9	34.76
812	Belling Angle	50x50x6	1171	3	4.5	23.91
815	Banding Angle	50x50x6	2247	2	4.5	21.12
809	Fish Plate	50x8	300	6	3.14	5.85
813a	Top Clamp for Belling Angle	50x8	504	2	3.14	3.17
813	Clamp A for Belling Angle	50x8	554	2	3.14	3.48
814b	Clamp B for Belling Angle	50x8	626	2	3.14	3.93
810	Clamp for Stay Set	50x8	249	4	3.14	4.38
814	Dangle Board Clamp	30x3	680	1	0.706	0.47
881a	Clamp A for GI Pipe	50x8	380	4	3.14	4.52
880	Clamp B for XLPE Cable	50x8	265	2	3.14	1.86
TOTAL :					107.06	
A	Bolt and Nut	M16	200	4	0.379	1.52
B	Bolt and Nut	M16	70	4	0.172	0.69
C	Bolt and Nut	M16	85	21	0.184	3.44
D	Bolt and Nut	M16	35	5	0.117	0.59
E	Bolt and Nut	M12	35	3	0.056	0.17
F	Bolt and Nut	M8	50	2	0.038	0.08
	Spring Washers	M16		34	0.009	0.31
	Spring Washers	M12		3	0.009	0.03
	Plain Washer	M16		34	0.015	0.510
	Plain Washer	M12		3	0.015	0.045
	Plain Washer	M8		2	0.004	0.008
TOTAL :					7.383	

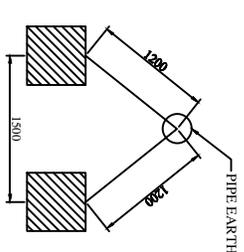
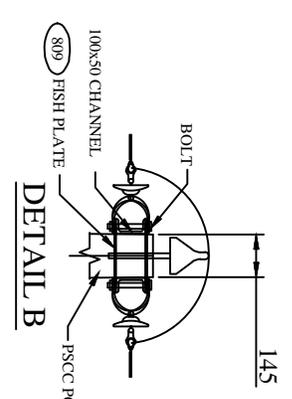
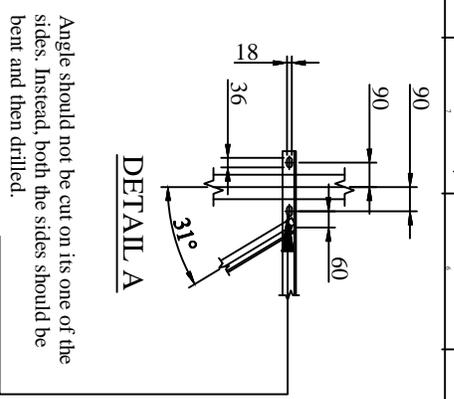
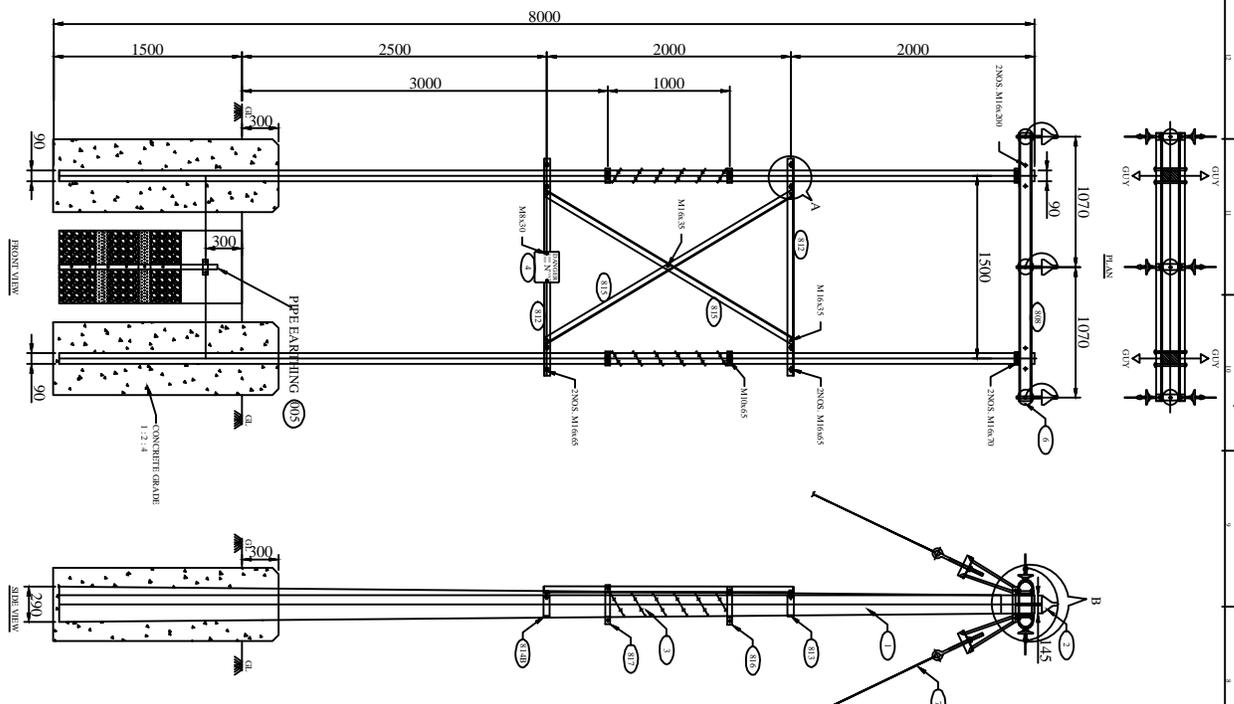
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RO	GRB	AWG			

SCALE	DRG. NO.	REV. NO.
NTS	REC/RDSS/11KV/2D	RO
SIZE A3		1 OF 4

PROJECT: **Revamped Distribution Sector Scheme (RDSS)**

TITLE: **GA OF 11 KV LINE CROSSING OF RAIL WAY USING 3c X185 SQMM XLPE CABLE ON DP STRUCTURE PCC/FSC POLES**





BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	8M/20Mx6 PSC POLE	2 NOS.	REC-XIII P/ma-QEN-001A
2	11KV PIN INSULATOR WITH GI PINS	3 NOS.	
3	7000MM		
4	11KV DANGER BOARD	1 NO.	REC-XIII P/ma-11KV-022
5	PIPE EARTHING	1 SET	REC-XIII P/ma-QEN-006
6	11KV DISK INSULATORS WITH HW	6 NOS.	
7	STAY SET ARRANGEMENT	4SET	REC-XIII P/ma-QEN-007
808	TOP CHANNELS (100x50)	2 NOS.	REC-XIII P/ma-11KV-002
812	BELTING ANGLES (50x50x6)	2 NOS.	REC-XIII P/ma-11KV-002
815	BRAKING ANGLES (50x50x6)	2 NOS.	REC-XIII P/ma-11KV-002
809	FISH PLATE	6 NOS.	REC-XIII P/ma-11KV-002
816	TOP CLAMPS FOR ANTI CLIMBING DEVICE	1 SET	REC-XIII P/ma-11KV-002
817	BOTTOM CLAMPS FOR ANTI CLIMBING DEVICE	1 SET	REC-XIII P/ma-11KV-002
813	CLAMP A FOR BELTING ANGLE	2 NOS.	REC-XIII P/ma-11KV-002
814B	CLAMP B FOR BELTING ANGLE	2 NOS.	REC-XIII P/ma-11KV-002
810	CLAMP FOR STAY SET	4 NOS.	REC-XIII P/ma-11KV-002
	BOLTS AND NUTS	AS REQD.	

- NOTES:-**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
 - 2) MANUFACTURING TOLERANCE
 UPTO 50mm - ± 5%
 51 TO 100mm - ± 4%
 ABOVE 300mm - ± 3%
 1) ALL MS PARTS SHALL CONFIRM TO IS : 2062
 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 2690&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
 ALL CHANNELS SHALL BE ISI C CHANNELS
 8) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONALISING AT AN INTERVAL OF 1.6KM.

FOR TENDER PURPOSE ONLY

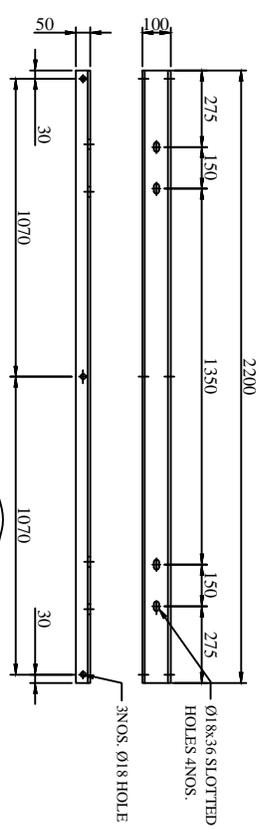


PROJECT:
Rural Electrification Corporation Ltd.
Revamped Distribution Sector Scheme (RDSS)

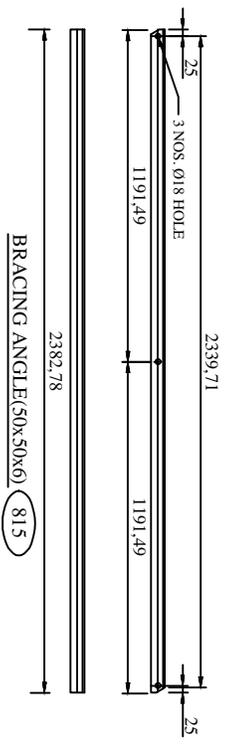
TITLE:
GA OF 11KV LINE FORMATION AT DP ON PSC/PCC POLE WITH COMPONENTS (IN LINE ARRANGEMENT)

SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
AS NTS	REC/RDSS/11KV/04A	1 OF 2	0

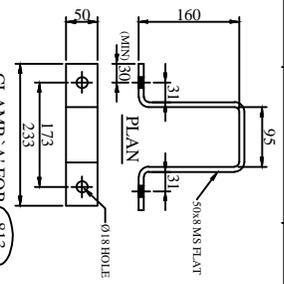
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R01					



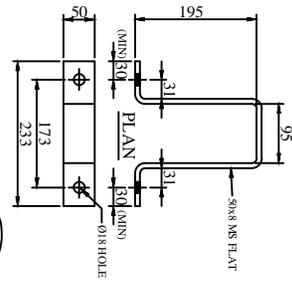
TOP CHANNEL (100X50) 808



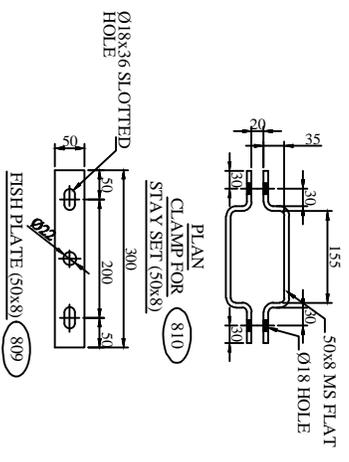
BRACING ANGLE(50X50X6) 815



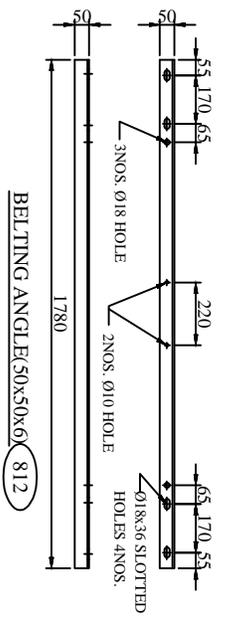
CLAMP 'A' FOR (50X8) 813



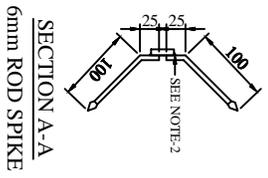
CLAMP 'B' FOR (50X8) 814B



PLAN CLAMP FOR (810) STAY SET (50X8) 810



BELTING ANGLE(50X50X6) 812



SECTION A-A 6mm ROD SPIKE 814A

BILL OF MATERIAL							
EEI CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG/Mtr.	QTY	TOTAL WT. KG.
808	TOP CHANNEL	100X50	M.S.	2200	7.9	2508	3476
812	BELTING ANGLE	50X50X6	M.S.	1780	4.5	2508	1022
815	BRACING ANGLE	50X50X6	M.S.	2383	4.5	2508	2145
809	FISH PLATE	50X8	M.S.	300	3.14	6508	595
816	TOP CLAMP FOR STAY SET	50X8	M.S.	395	1.40	4508	2354
817	BOTTOM CLAMP FOR STAY SET	50X8	M.S.	412	1.40	4508	2360
813	CLAMP 'A' FOR BELTING ANGLE	50X8	M.S.	355	3.14	2508	338
814B	CLAMP 'B' FOR BELTING ANGLE	50X8	M.S.	405	3.14	2508	318
810	CLAMP FOR STAY SET	50X8	M.S.	350	3.14	4508	447
	SPRKE	6mm ROD	M.S.	125	0.22	115508	388
						TOTAL	97774

SR NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG/Mtr.	QTY	TOTAL WT. KG.
10	NUTS & BOLTS	M16		200	0.5786X20	4508	156
11	NUTS & BOLTS	M16		65	0.148X20	12508	158
12	NUTS & BOLTS	M16		35	0.117X20	5508	0.585
13	NUTS & BOLTS	M10		60	0.058X20	8508	0.440
14	NUTS & BOLTS	M8		50	0.038X20	12508	0.189
15	SPRING WASHERS	M16		3.5 THICK	0.038X20	21508	0.025
16	SPRING WASHERS	M8		3.5 THICK	0.038X20	8508	0.008
17	SPRING WASHERS	M16		3 THICK	0.038X20	21508	0.215
18	PLAIN WASHER	M10		3 THICK	0.038X20	8508	0.040
19	PLAIN WASHER	M10		3 THICK	0.038X20	8508	0.040
20	PLAIN WASHER	M8		3 THICK	0.038X20	2508	0.008
						TOTAL	5189

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 MS PARTS SHALL CONFORM 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) ALL CHANNELS SHALL BE ISLC CHANNELS
- 9) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONAL LISTING AT AN INTERVAL OF 1.6KM.

FOR TENDER PURPOSE ONLY

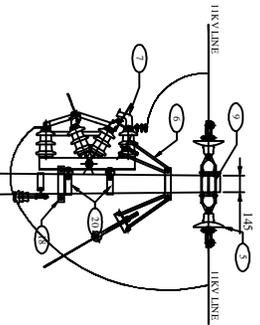
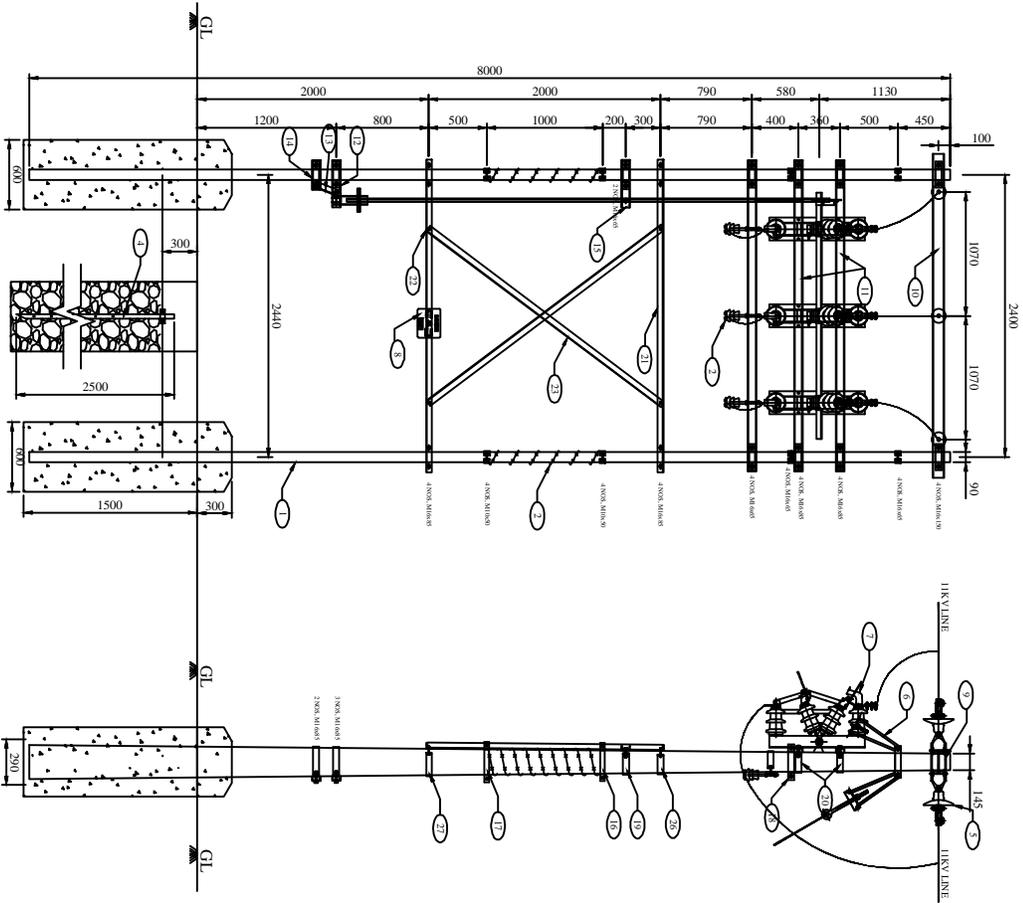


Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

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

REV. NO.	RO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
SIZE/SCALE	AS	NTS	DRG. NO.	REC/RDSS/11KV/04B	SHT. NO.	REV. NO.
					2 OF 2	0



BILL OF MATERIALS			
SER. NO.	DESCRIPTION	SECTION	QTY.
1	50x300x 800 PCG POLE	2 NOS	2 NOS
2	11KV INSULATORS WITH GL PINS	3 SER	3 SER
3	11KV AIR BRK SW	1 NOS	1 NOS
4	11KV AIR BRK SW	1 NOS	1 NOS
5	11KV AIR BRK SW	1 NOS	1 NOS
6	11KV AIR BRK SW	1 NOS	1 NOS
7	11KV AIR BRK SW	1 NOS	1 NOS
8	11KV AIR BRK SW	1 NOS	1 NOS
9	11KV AIR BRK SW	1 NOS	1 NOS
10	11KV AIR BRK SW	1 NOS	1 NOS
11	11KV AIR BRK SW	1 NOS	1 NOS
12	11KV AIR BRK SW	1 NOS	1 NOS
13	11KV AIR BRK SW	1 NOS	1 NOS
14	11KV AIR BRK SW	1 NOS	1 NOS
15	11KV AIR BRK SW	1 NOS	1 NOS
16	11KV AIR BRK SW	1 NOS	1 NOS
17	11KV AIR BRK SW	1 NOS	1 NOS
18	11KV AIR BRK SW	1 NOS	1 NOS
19	11KV AIR BRK SW	1 NOS	1 NOS
20	11KV AIR BRK SW	1 NOS	1 NOS
21	11KV AIR BRK SW	1 NOS	1 NOS
22	11KV AIR BRK SW	1 NOS	1 NOS
23	11KV AIR BRK SW	1 NOS	1 NOS
24	11KV AIR BRK SW	1 NOS	1 NOS
25	11KV AIR BRK SW	1 NOS	1 NOS
26	11KV AIR BRK SW	1 NOS	1 NOS
27	11KV AIR BRK SW	1 NOS	1 NOS
28	11KV AIR BRK SW	1 NOS	1 NOS
29	11KV AIR BRK SW	1 NOS	1 NOS

- 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: SPM PART-1
- ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

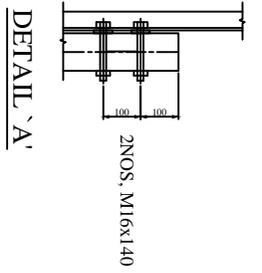
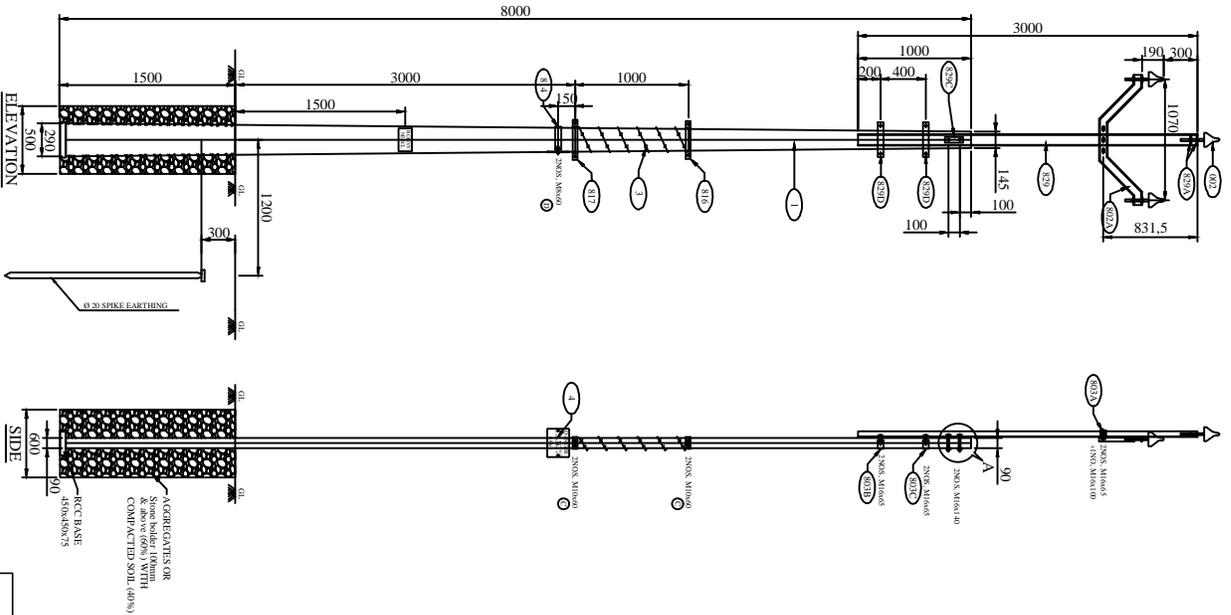
PROJECT: GA OF 11KV LINE SECTIONALIZER ON PSC/PSC POLE

DATE	02.06.09
SCALE	DRG. NO.
NTS	REC/RDSS/11KV/05A
SIZE	A3

REV. NO.	R0
SHT. NO.	1 OF 2

DATE	02.06.09
SCALE	DRG. NO.
NTS	REC/RDSS/11KV/05A
SIZE	A3

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



BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	8m/200kg PSC POLE	1 NO.	REC-XII Plan-GEN-001A
002	11 KV PIN INSULATOR	3 NOS.	
003	BARBED WIRE	3500 MM	
004	11 KV DANGER BOARD	1 NO.	REC-XII Plan-11KV-022
005	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
802A	V- CROSS ARM	1 NO.	REC-XII Plan-11KV-010
829	V- CROSS ARM SUPPORTING CHANNEL (3MEXTN)	1 NO.	REC-XII Plan-11KV-010
829A	WELDED PLATE	1 NO.	REC-XII Plan-11KV-010
829C	WELDED WASHER PLATE	1 NO.	REC-XII Plan-11KV-010
803A	BACK CLAMP FOR V-CROSS ARM	1 NO.	REC-XII Plan-11KV-010
814	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-11KV-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-11KV-001
817	BOTTOM CLAMP TOP ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-11KV-001
803B	BACK CLAMP FOR V CROSS ARM SUPPORTING CHANNEL	1 NO.	REC-XII Plan-GEN-010
803C	BACK CLAMP FOR V CROSS ARM SUPPORTING CHANNEL	1 NO.	REC-XII Plan-GEN-010
	NUTS & BOLTS	AS REQD.	REC-XII Plan-GEN-010

- 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 CHANNELS AND ANGLES SHALL CONFORM TO IS SP6 PART-1.
- ALL CHANNELS SHALL BE ISLC CHANNELS

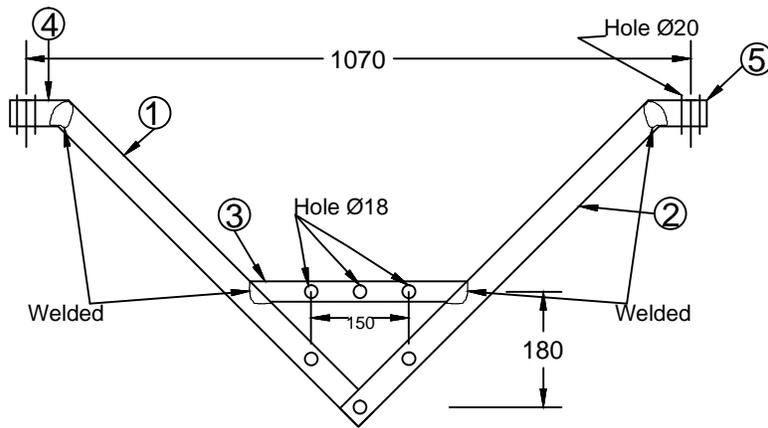
FOR TENDER PURPOSE ONLY

REC
 Rural Electrification Corporation Ltd.

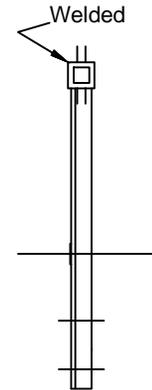
PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

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

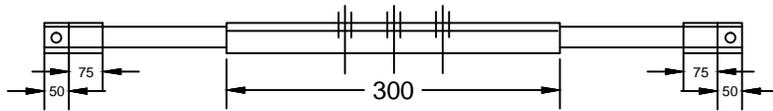
SIZE SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/11KV/6A	1 OF 2	0



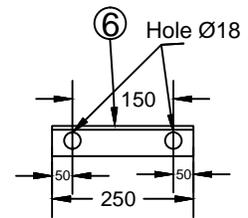
ELEVATION



END VIEW



PLAN



BACK CLEAT

11KV 'V' Cross-Arm

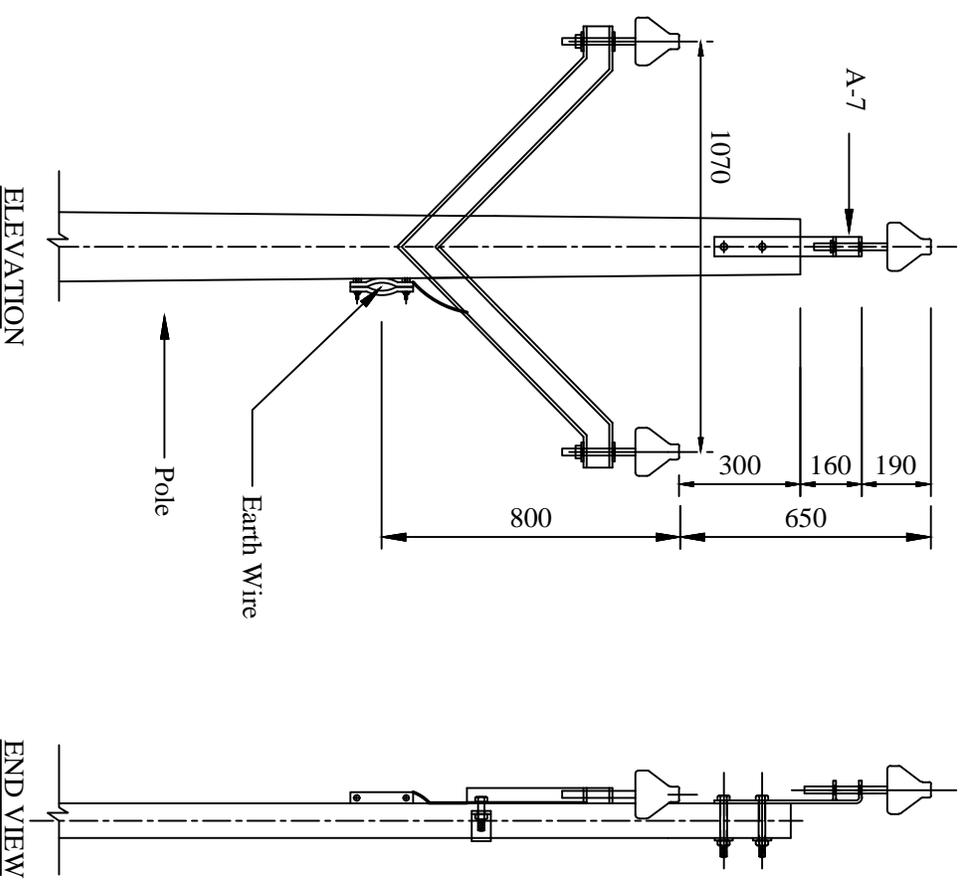
BILL OF MATERIAL

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.	
PROJEC		Revamped Distribution Sector Scheme (RDSS)	
TITLE		11KV Bridling 'V' CROSS-ARM	
SIZE	SCALE	DRG. NO.	SHT. NO.
A3	NTS	REC/ RDSS /11KV/07	1 OF 1
REV. NO.	PREPARED	CHECKED	APPROVED
DATE	PROJECT	REV. NO.	0



All Dimensions are in mm.

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

MAXIMUM SPAN-107 METERS

TANGENT LOCATION

FOR TENDER PURPOSE ONLY

ALL DIMENSIONS ARE IN MM.



Rural Electrification Corporation Ltd.

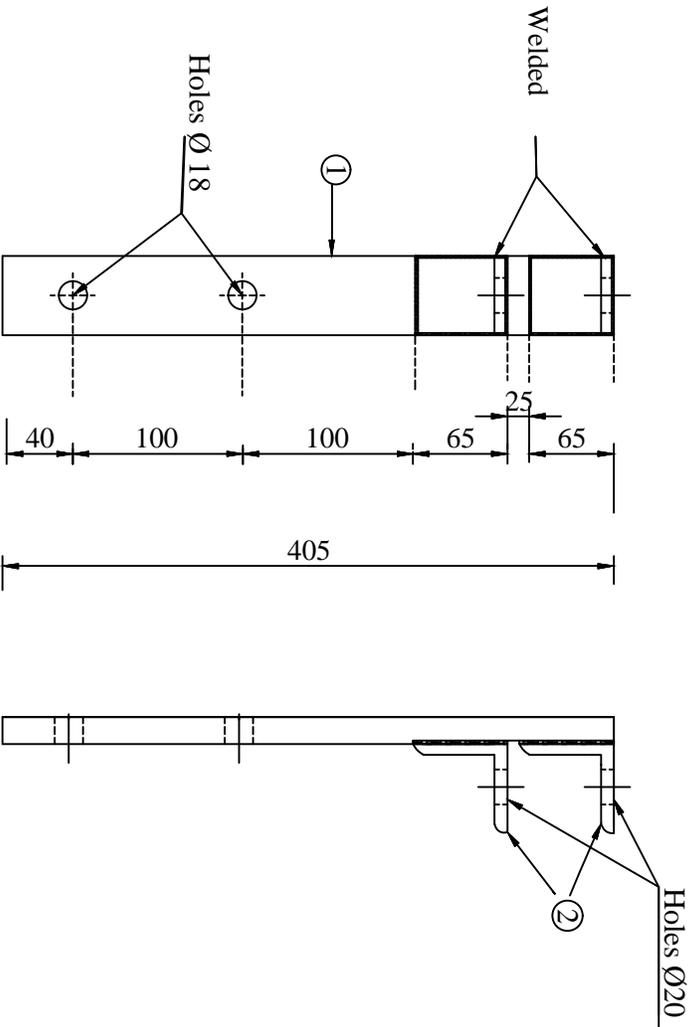
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11 KV LINES CONDUCTOR FORMATION AND CLEARANCE WITH EARTH WIRE

SIZE SCALE: A3 MTS
 DRG. NO.: REC/RDSS/11KV/09

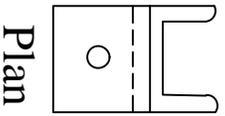
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

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



ELEVATION

END VIEW



Plan

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

FOR TENDER PURPOSE ONLY

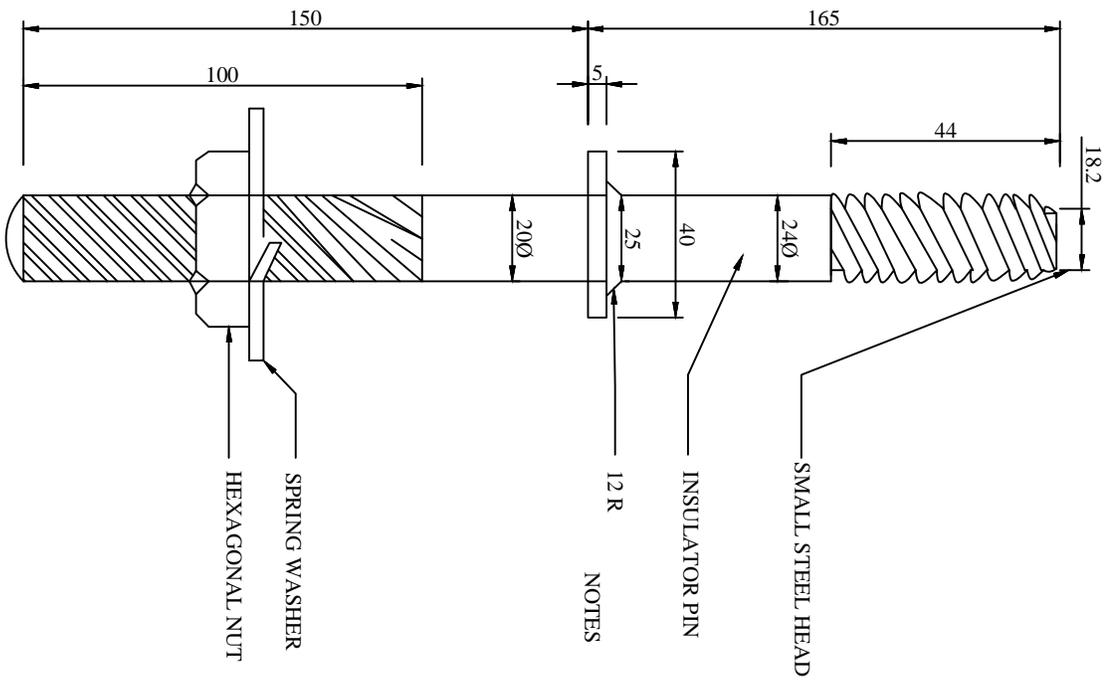
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RO					
SIZE SCALE: A3 MTS					
PRG. NO.		REC/RDSS11KV/10		SHT. NO. REV. NO.	
				1 OF 1 0	



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11 KV LINE POLE TOP BRACKET



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)

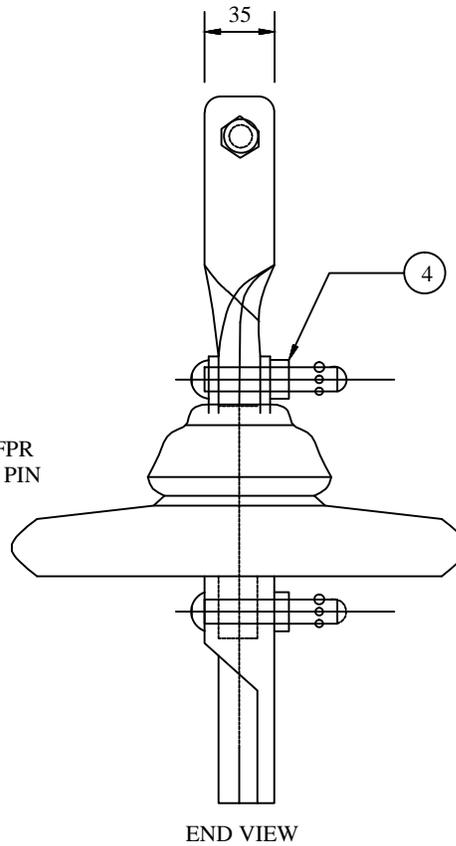
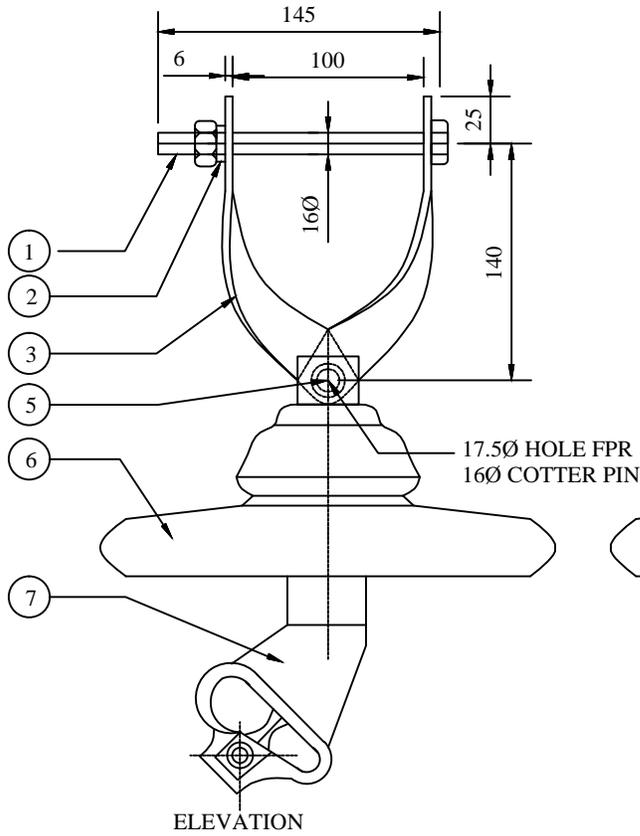
TITLE: **GI PIN**

TYPE S 165
IS:2488 (PART-1)

PIN INSULATOR

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

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



S.No.	BILL OF MATERIAL	QTY.
1	BOLT - NUT - 10ØX145	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

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

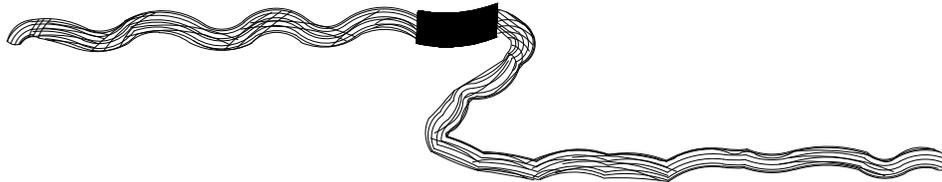
Revamped Distribution Sector Scheme (RDSS)

TITLE

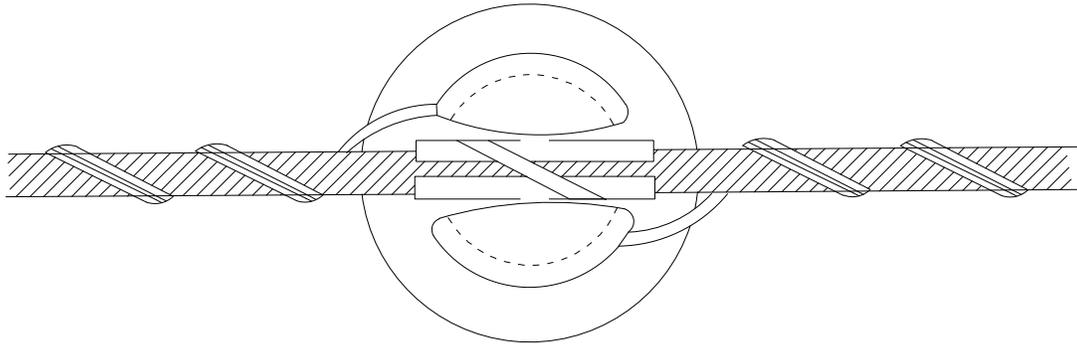
Clevis & Tongue Type Strain Insulator Set

RD 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:

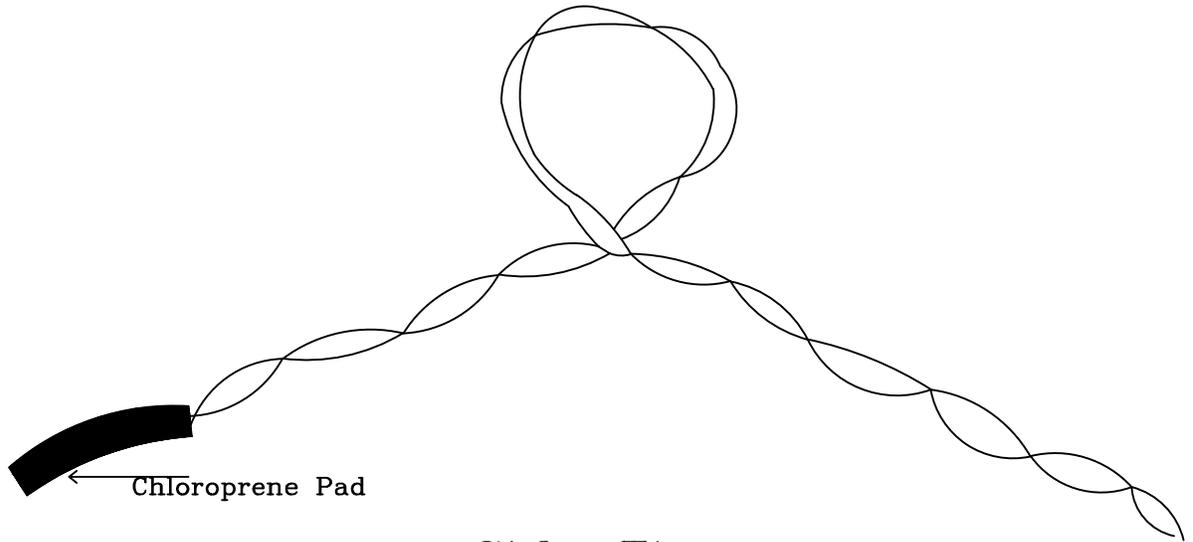
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

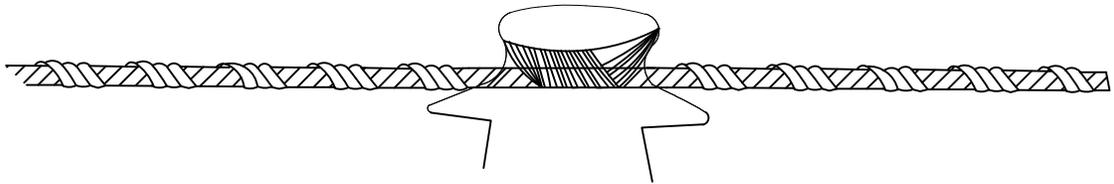
RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



Chloroprene Pad

Side Tie



Side Tie In Position On 11 KV Pin Insulator

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

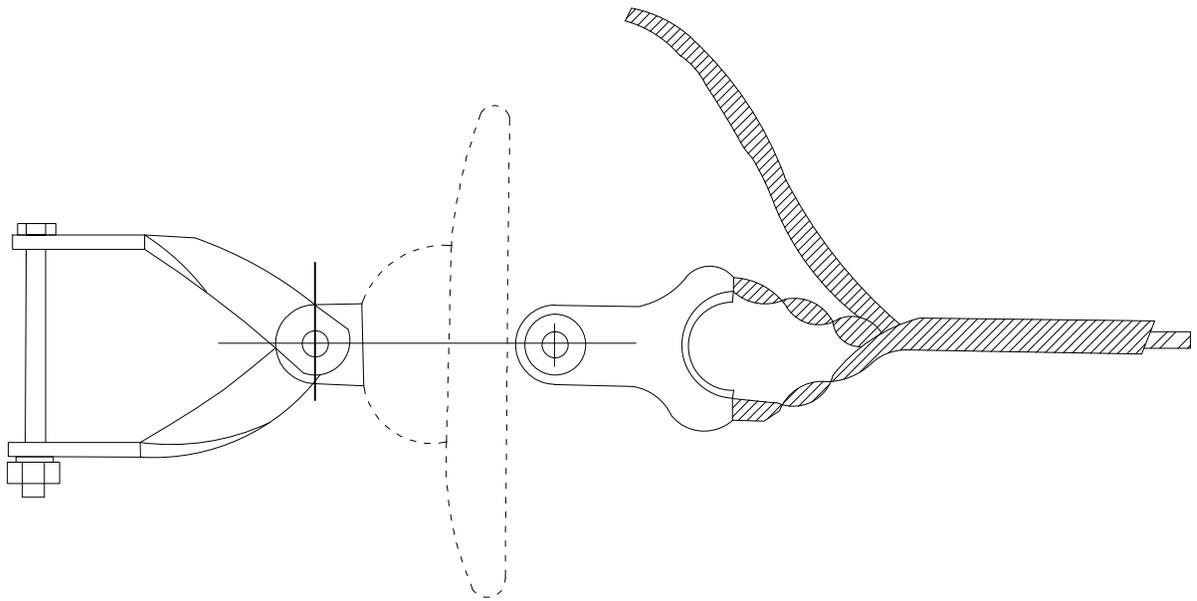
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

RD					
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:

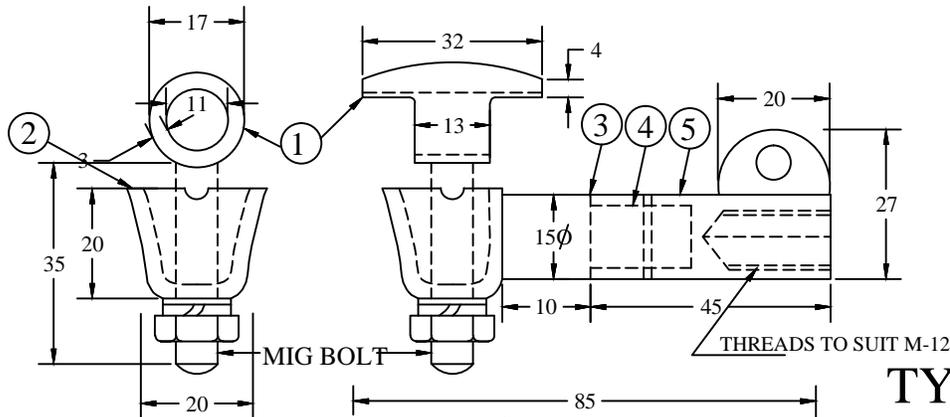
Revamped Distribution Sector Scheme (RDSS)

TITLE

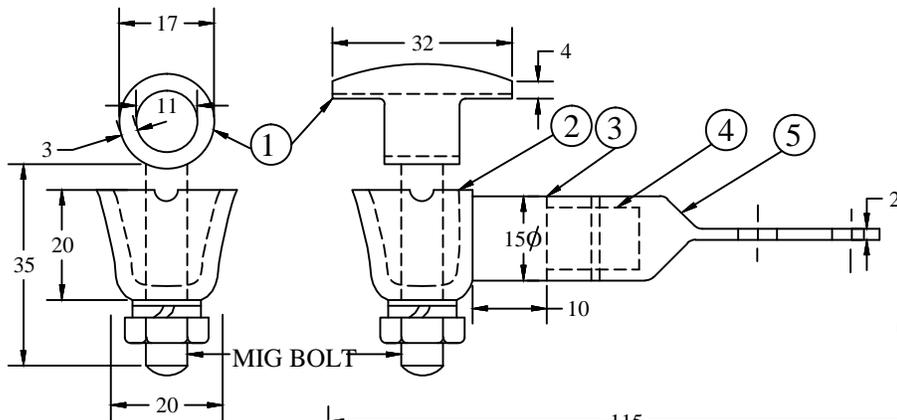
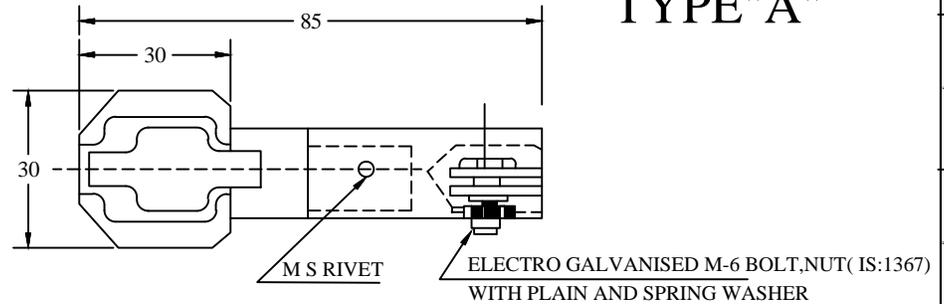
11KV Conductor Dead-End Arrangement
(Using Helically Formed Fitting)

RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

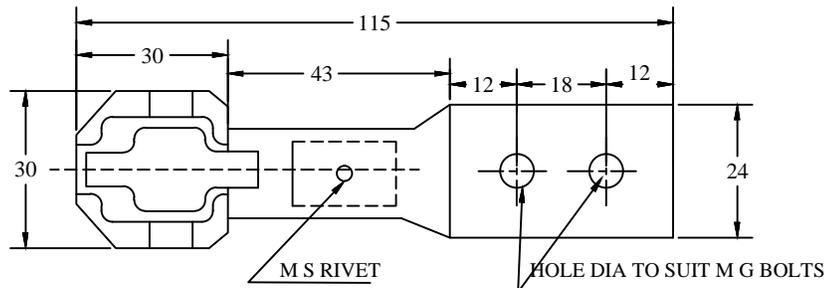
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /11KV/19	1 OF 1	0



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:

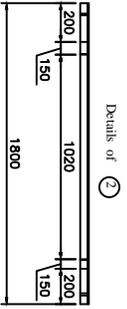
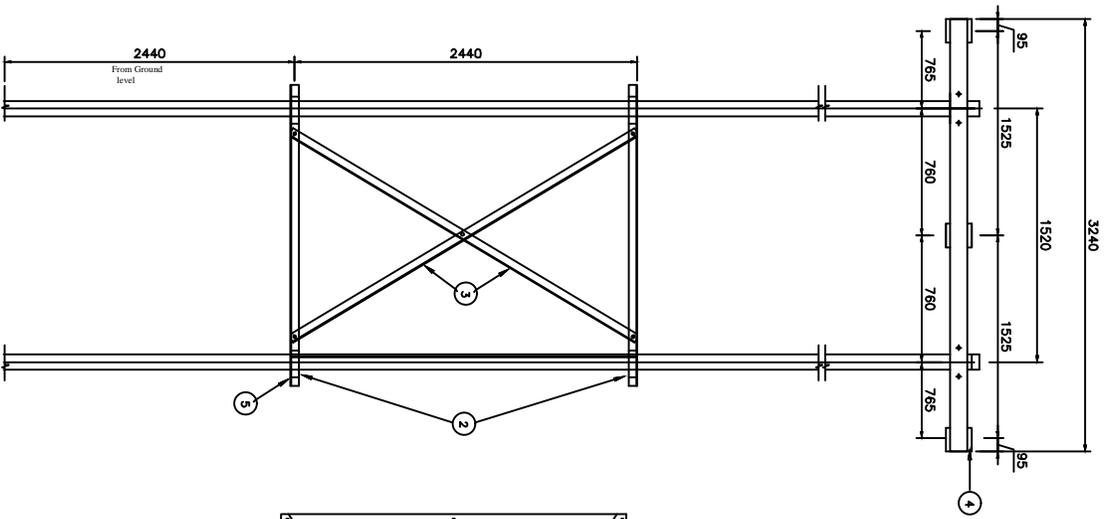
Revamped Distribution Sector Scheme (RDSS)

TITLE

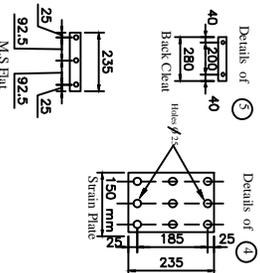
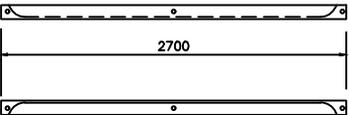
Bimetallic Connector (H. T.) for
11kV Distribution Transformer

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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 FLANGES 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 100X50X6 = 3240 Long	2 Nos
2.	M.S Angle 65X65X6 = 1800 Long	2 Nos
3.	M.S Angle 50X50x6 = 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

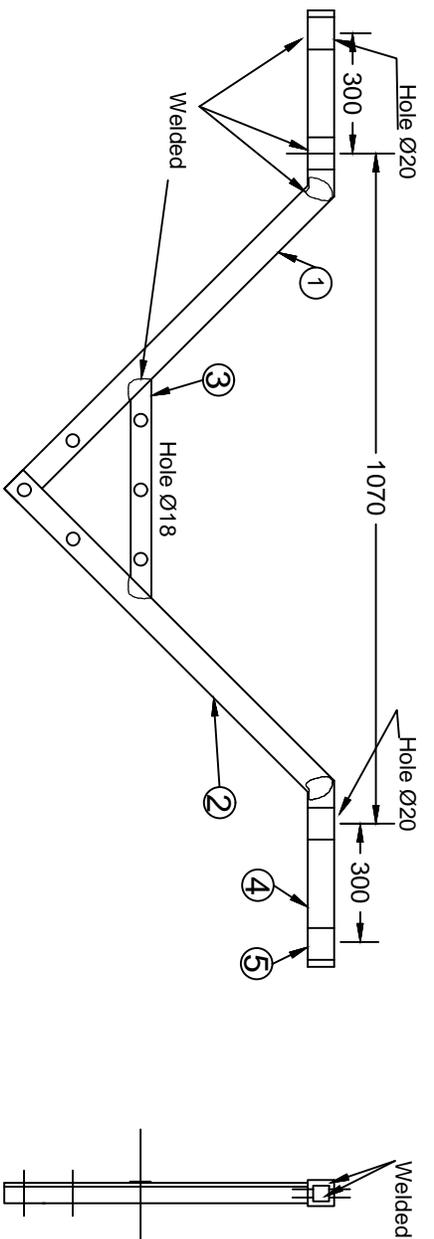


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)
TITLE: General Arrangement of DC Cross-Arm and Bracing With Back Cleat for PSC/PCC Poles

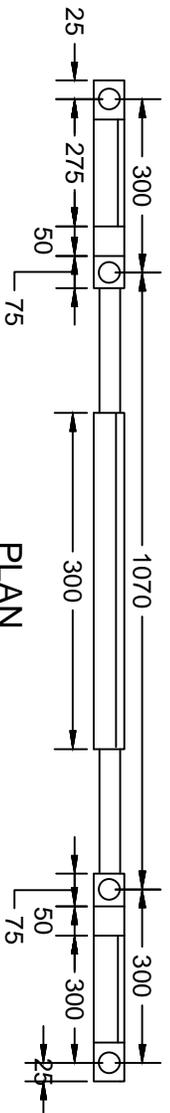
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/11KV/21	1 OF 1	0

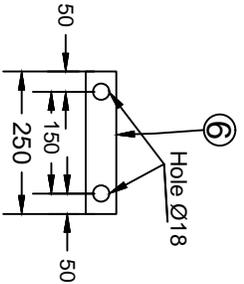


ELEVATION

END VIEW



PLAN



BACK CLEAT

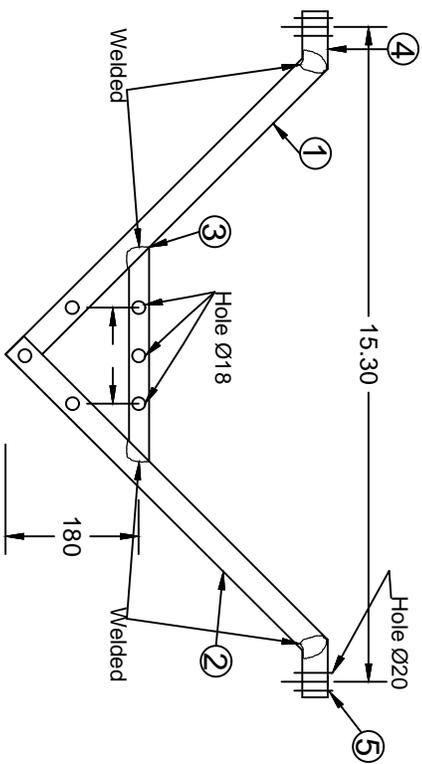
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

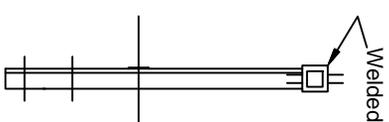
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: **11KV Bridling 'V' Cross-Arm**

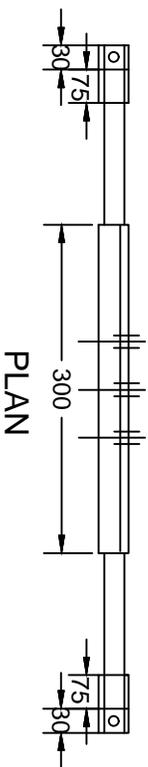
RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS /11KV/22	1 OF 1	0	



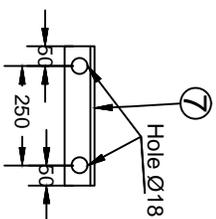
ELEVATION



END VIEW



PLAN



BACK CLEAT

FOR TENDER PURPOSE ONLY

11KV 'V' Cross-Arm



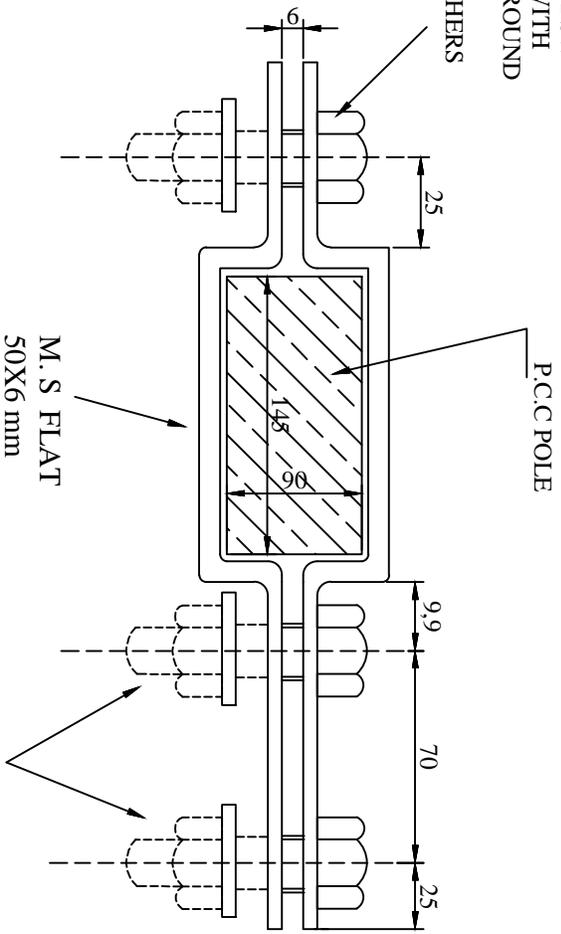
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV 'V' Cross-Arm

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

M 16 OR 5/8" BSW
M.S BOLTS WITH
NUTS, FLAT ROUND
&
SPRING WASHERS



M 16 OR 5/8" BSW
M.S BOLTS WITH
NUTS, FLAT ROUND
&
SPRING WASHERS

FRONT VIEW

FOR TENDER PURPOSE ONLY



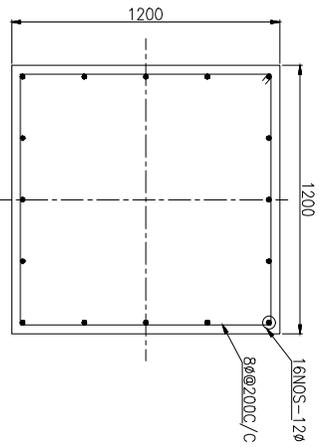
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 33 kv Line Pole Bracket

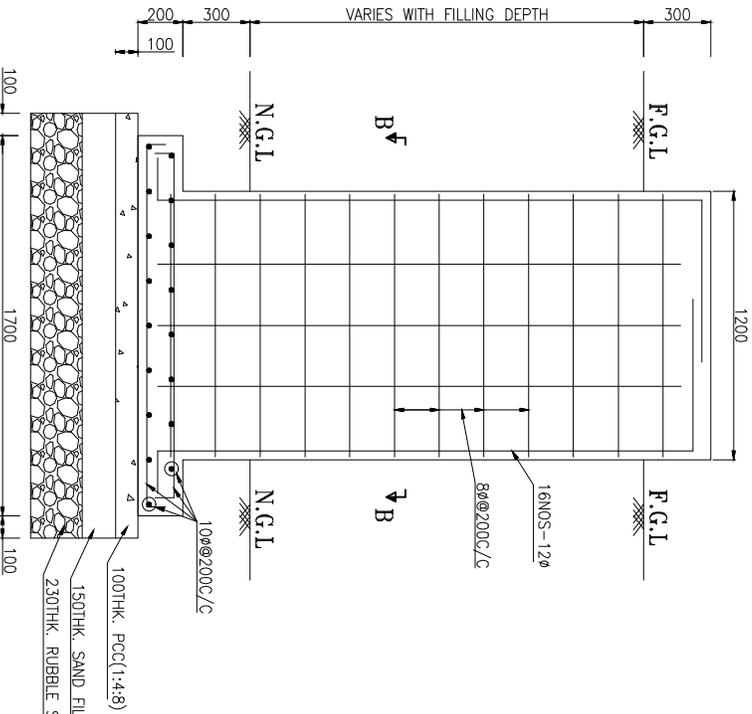
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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

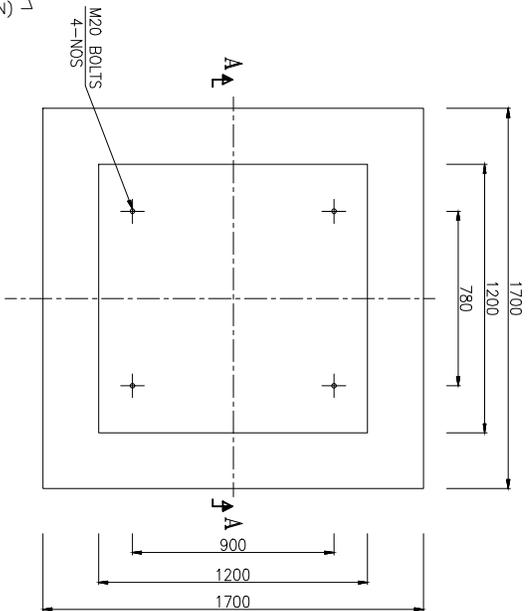
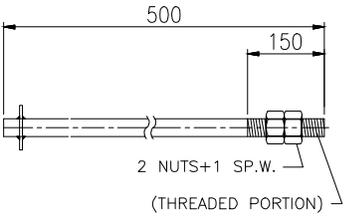
SECTION - BB



SECTION - AA



DETAIL OF ANCHOR BOLT (20Ø)



- NOTES:-
1. ALL DIMENSIONS ARE IN MM.
 2. GRADE OF CONCRETE SHALL BE M20
 3. GRADE OF STEEL SHALL BE Fe-415 CONFORMING TO IS 1786
 4. CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE 50MM.
 5. PROVIDE LAP/DEVELOPMENT LENGTH EQUAL TO 50xD, WHERE 'd' IS DIA OF REINFORCEMENT
 6. SBC OF FOUNDING STRATA SHALL NOT BE LESS THAN 6.65 TON/M²

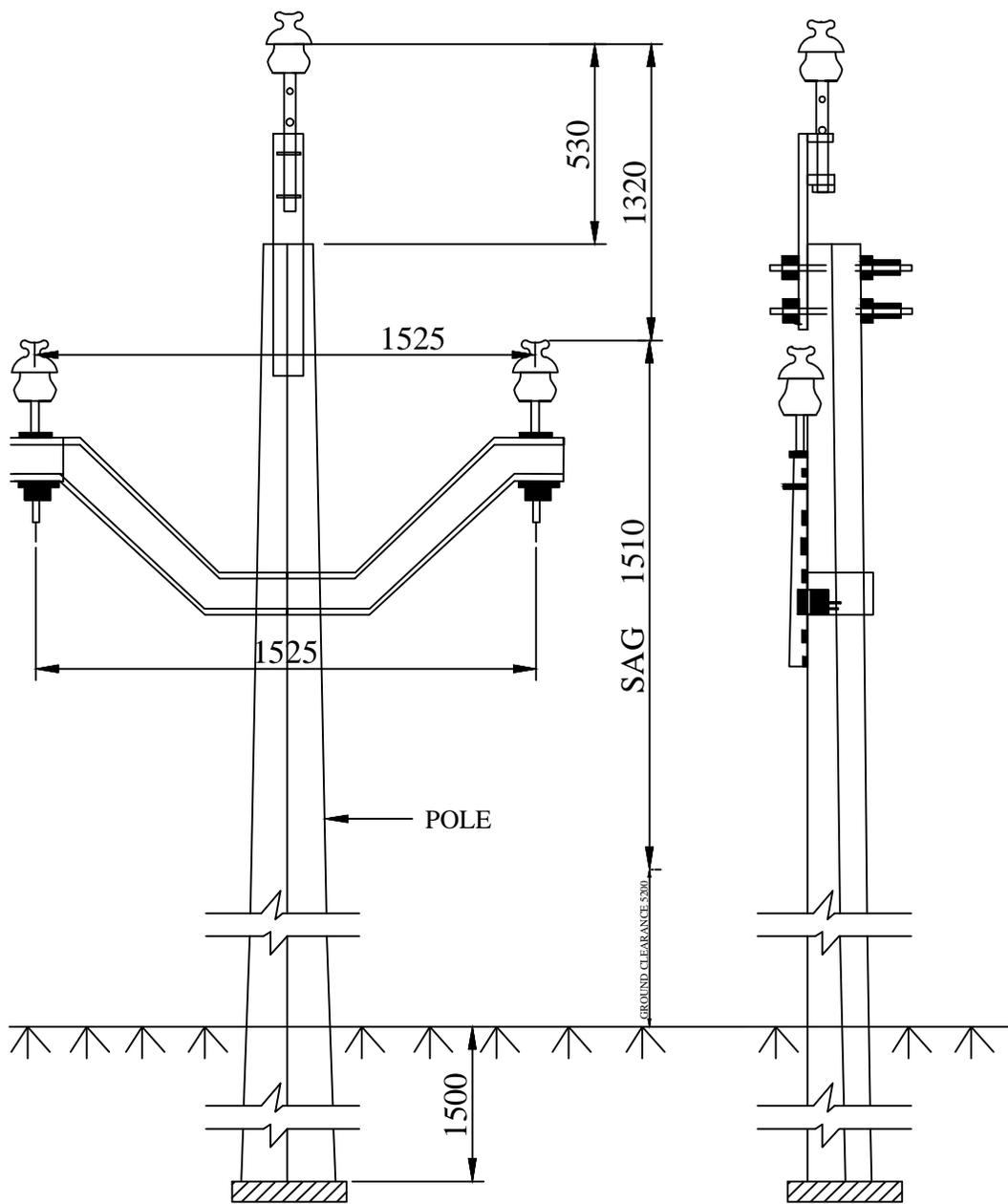
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

DETAILS OF 33kV VCB FOUNDATION

REV. NO.	R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
SIZE	A4	SCALE	1:100	DRG. NO.	REC/RDSS/33kV/02	SHT. NO. 1 OF 1
REV. NO.	0	SHT. NO.	1 OF 1	REV. NO.	0	



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

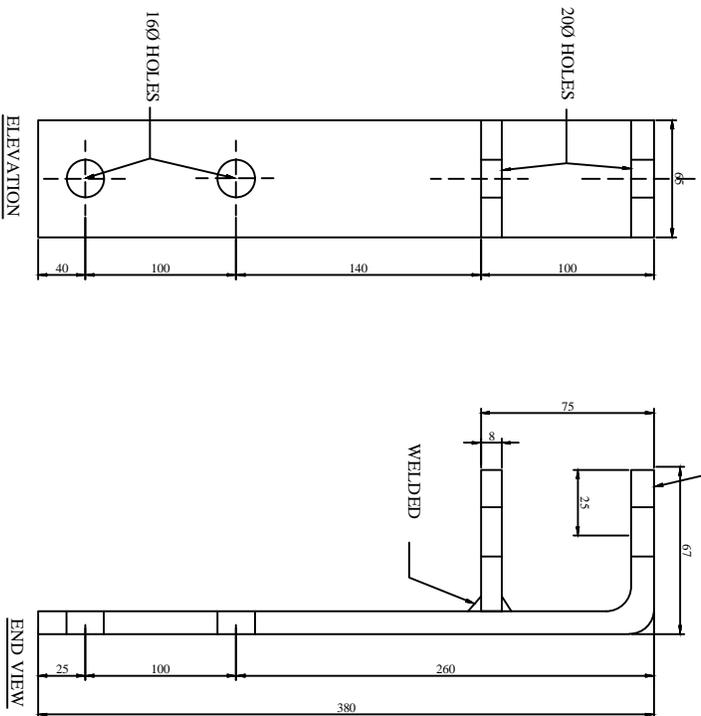
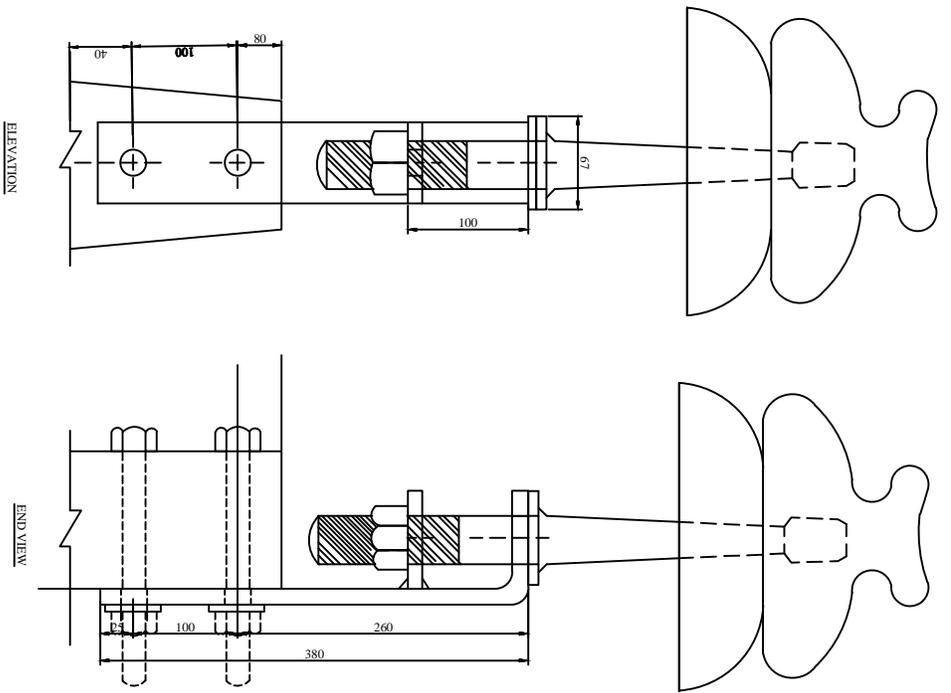
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 33kV Line Conductor Formation & Clearances

ALL DIMENSION ARE IN mm.

RD					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



M. S. CHANNEL
100x50x6.4 - 65
LONG WELDED
WITH ANGLE

WELDED

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

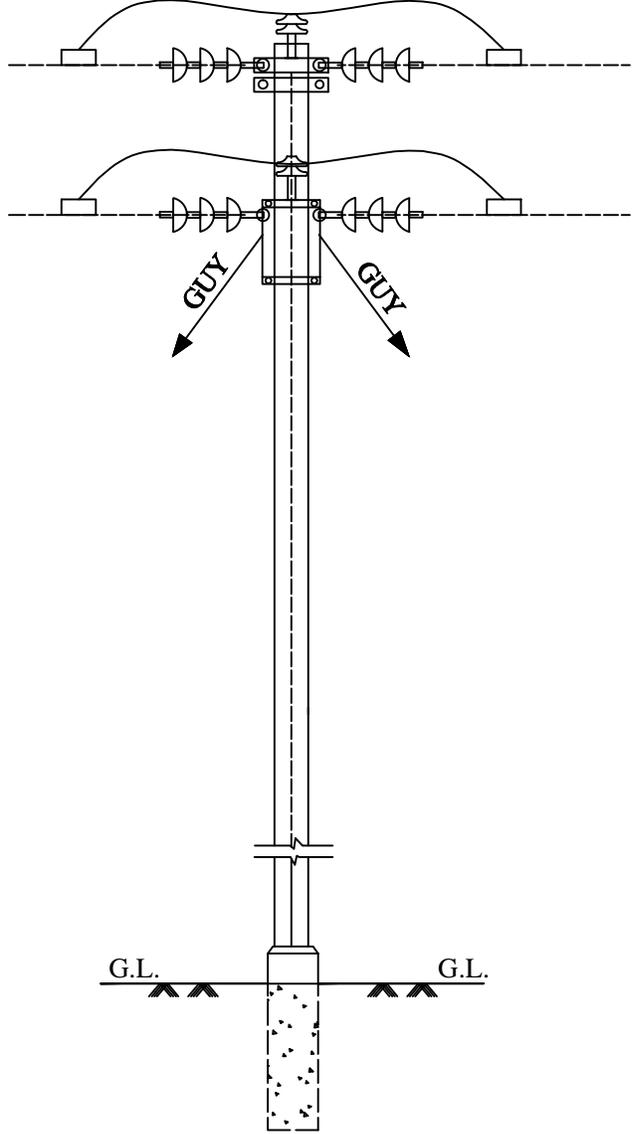
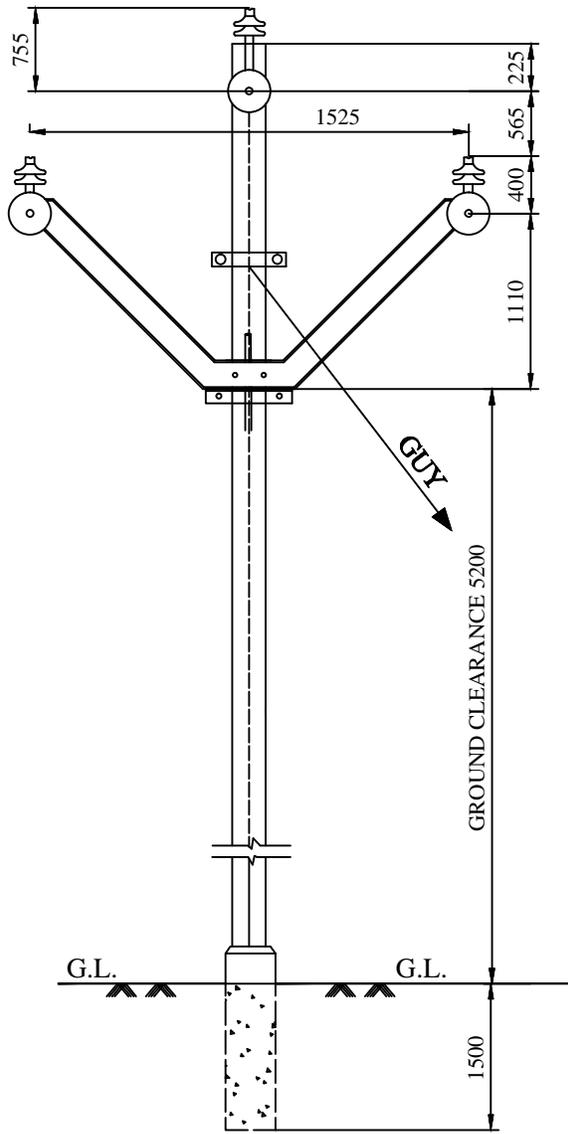


PROJECT: Revamped Distribution Sector Scheme (RDSS)

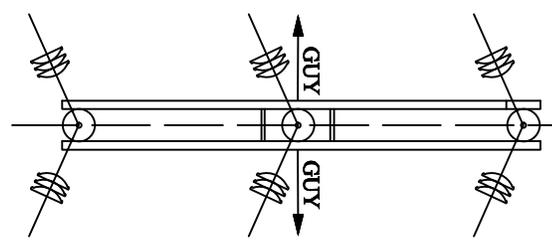
TITLE: 33kV Line Pole Top Bracket

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /33kV/04	1 OF 1	0



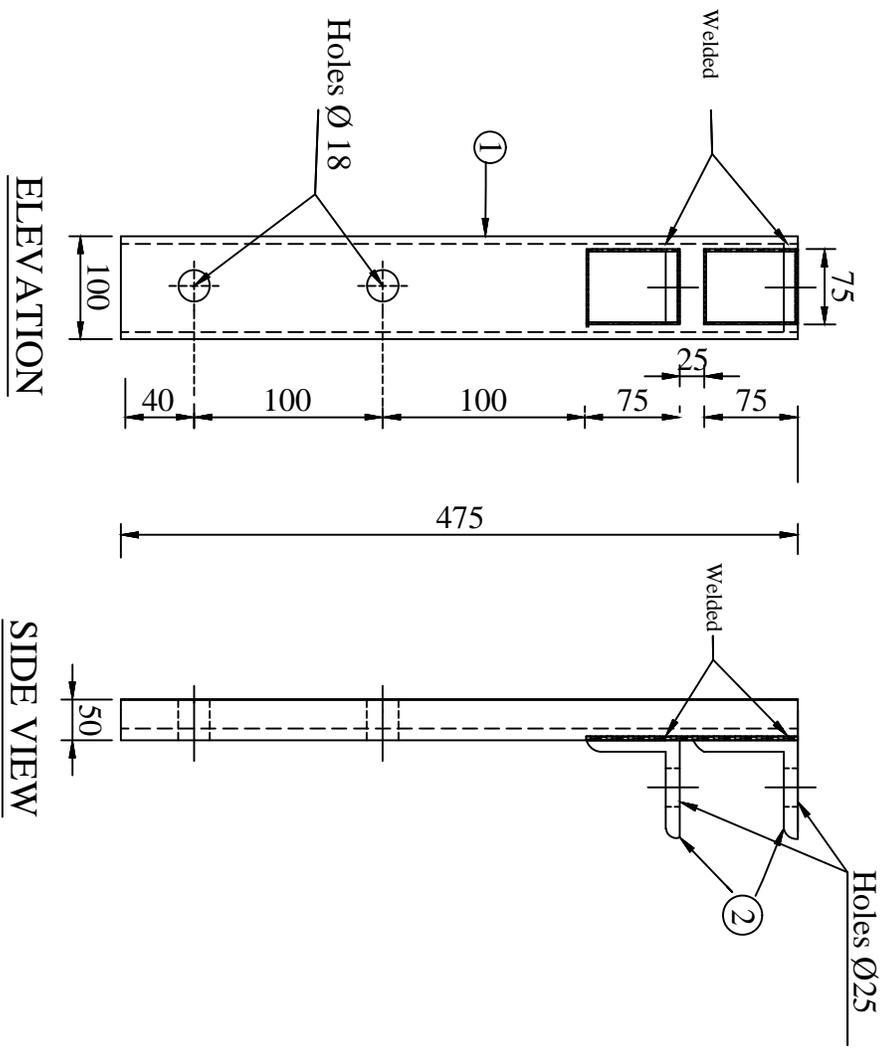
SIDE VIEW



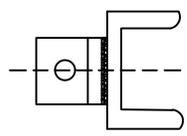
FOR TENDER PURPOSE ONLY

		Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)			
TITLE: 33KV Lines Arrangement of Conductors at Single Pole Support (0° to 10° Deviation)			
SIZE A3	SCALE NTS	DRG. NO. REC/ RDSS /33kV/05	SHT. NO. 1 OF 1
REV. NO. PREPARED CHECKED APPROVED DATE PROJECT		REV. NO. 0	

RD					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



Plan



BILL OF MATERIAL		
Part No.	DESCRIPTION	QTY.
1	Channel 100x50x6=415 Long	1 NOS.
2	Angle 75x75x6= 75 Long	2 NOS.

All Dimensions in mm

FOR TENDER PURPOSE ONLY

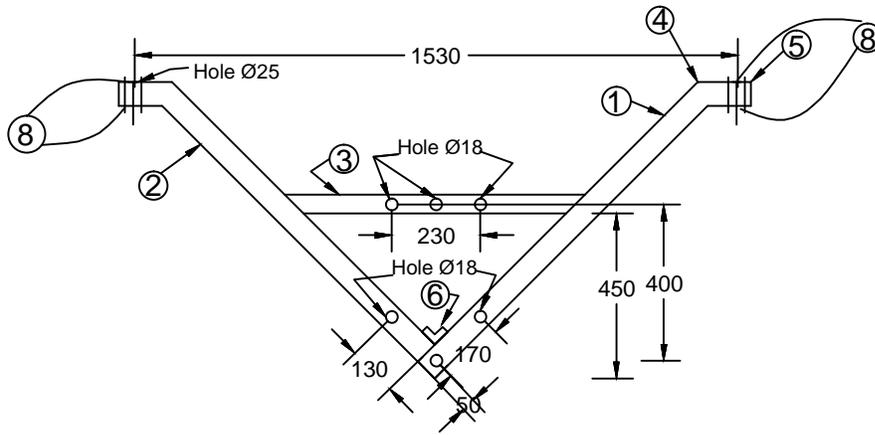


Rural Electrification Corporation Ltd.

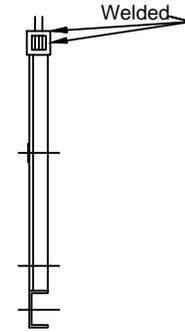
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 33 kV LINE POLE TOP BRACKET

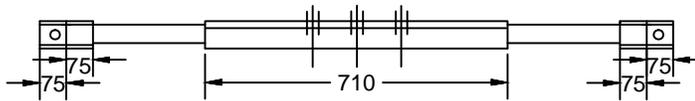
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE SCALE: A3 MTS		PRG. NO.: REC/RDSS/33kV/06		SHT. NO.: 1 OF 1	
				REV. NO.: 0	



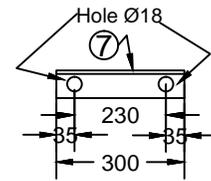
ELEVATION



END VIEW



PLAN



BACK CLEAT (2 Nos.)

33KV 'V' Cross-Arm

BILL OF MATERIAL

PART NO.	DESCRIPTION	QTY.
1	M. S. CHANNEL 100x50x6 = 1040 LONG	1 No.
2	M. S. CHANNEL 100x50x6 = 940 LONG	1 No.
3	M. S. ANGLE 65x65x6 = 710 LONG	1 No.
4	M. S. ANGLE 65x65x6 = 150 LONG	2 Nos.
5	M. S. ANGLE 65x65x6 = 75 LONG	2 Nos.
6	M. S. ANGLE 50x50x6 = 50 LONG	1 No.
7	M. S. CHANNEL 75x40x6 = 300 LONG	2 Nos.
8	M. S. PLATE 50x50x6	2 Nos.(Welded)

NOTE:- (1) a & b shown area for P.C.C. Poles

All Dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT-

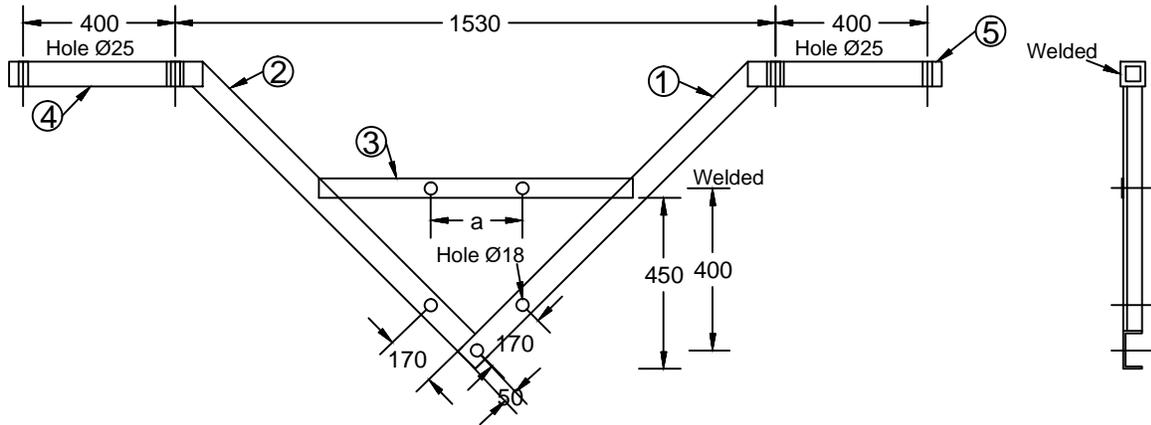
Revamped Distribution Sector Scheme (RDSS)

TITLE

33KV 'V' CROSS-ARM

RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

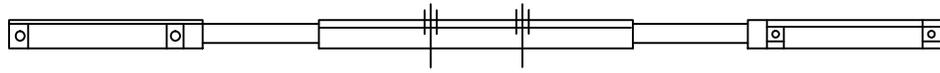
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33kV/07	1 OF 1	0



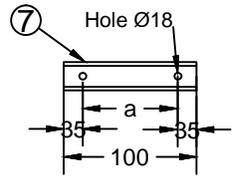
ELEVATION



END VIEW



PLAN



BACK CLEAT

33KV Bridling 'V' Cross Arm (Road Crossing)

BILL OF MATERIAL			
PART NO.	DESCRIPTION	QTY.	STORE CODE NO.
1	M. S. CHANNEL 100x50x6 = 1040 LONG	1 No.	F-002308
2	M. S. CHANNEL 100x50x6 = 940 LONG	1 No.	F-002308
3	M. S. ANGLE 65x65x6 = 710 LONG	1 No.	F-000324
4	M. S. ANGLE 65x65x6 = 510 LONG	2 Nos.	F-000324
5	M. S. ANGLE 65x65x6 = 75 LONG	4 Nos.	F-000324
6	M. S. ANGLE 50x60x6 = 50 LONG	1 No.	F-000263
7	M. S. CHANNEL 50x50x6 = 300 LONG	2 Nos.	F-002308

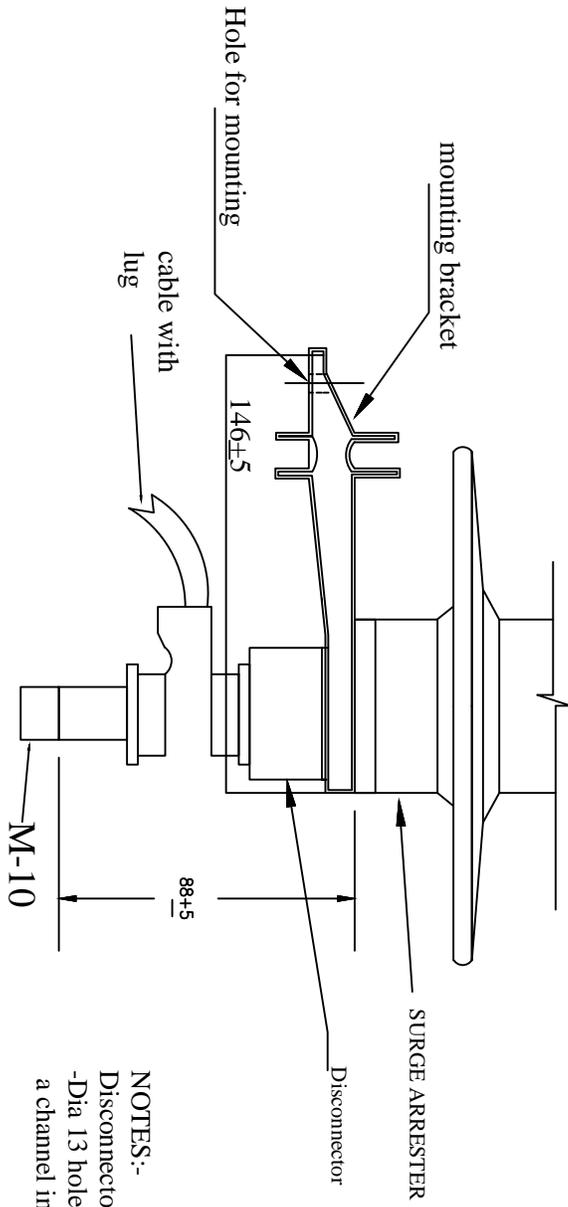
FOR TENDER PURPOSE ONLY

Note: For P. C. C. Plot a = 230mm
b = 230mm

All Dimensions are in mm.

		Rural Electrification Corporation Ltd.	
PROJE Revamped Distribution Sector Scheme (RDSS)			
TITLE 33kV Bridling V-Cross Arm (Road Crossing)			
SIZE	SCALE	DRG. NO.	SHT. NO. REV. NO.
A3	NTS	REC/RDSS /33kV/08	1 OF 1 0

RD					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



NOTES:-
 Disconnector integrated into bracket
 -Dia 13 hole in bracket for mounting onto
 a channel in the field.mm

MV SURGE ARRESTER
 TYPE:NDA
 Mounting Bracket and Disconnector

FOR TENDER PURPOSE ONLY



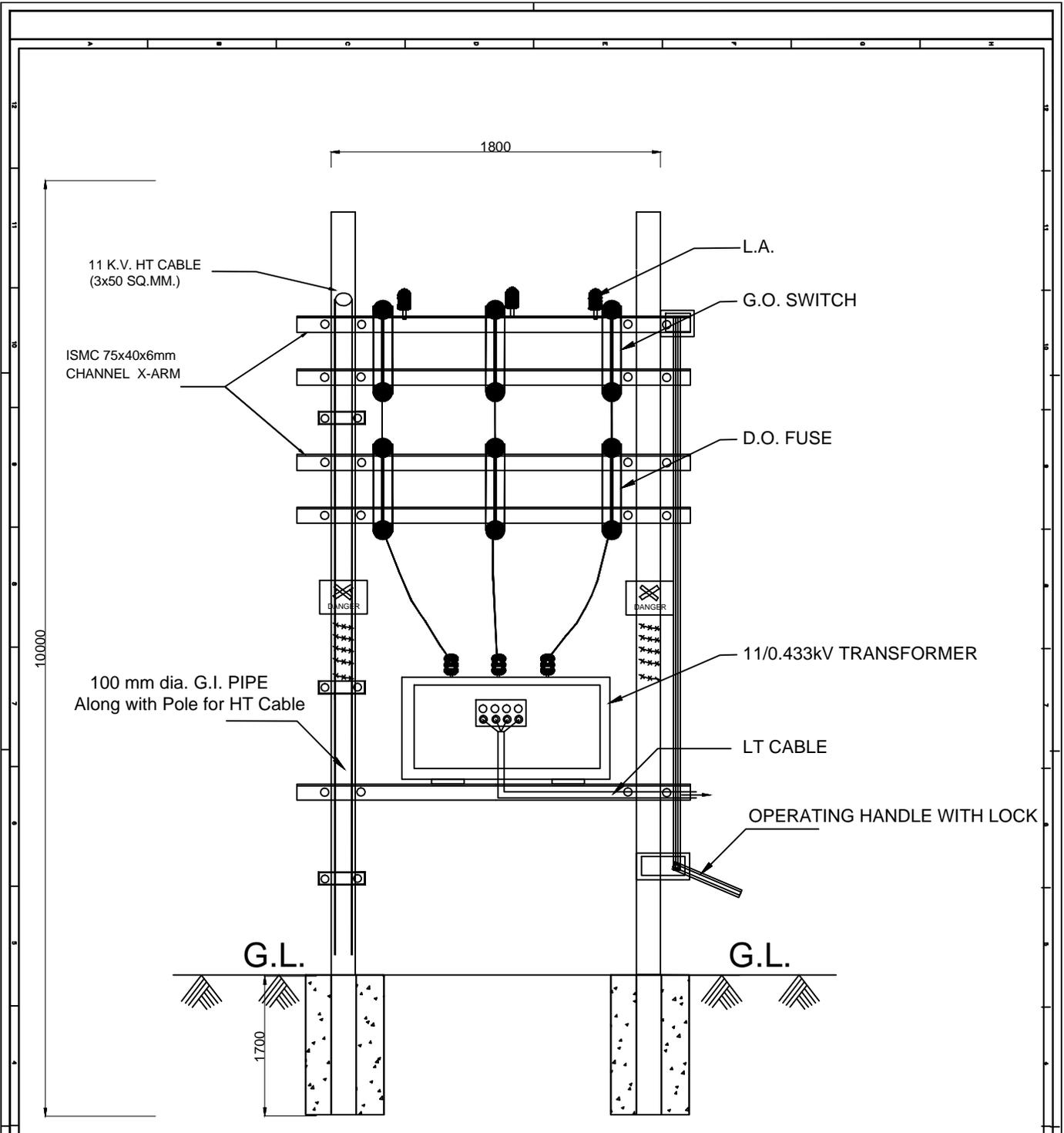
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

All dimensions are in mm.

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

SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/DTR-SS/01	1 OF 1	0

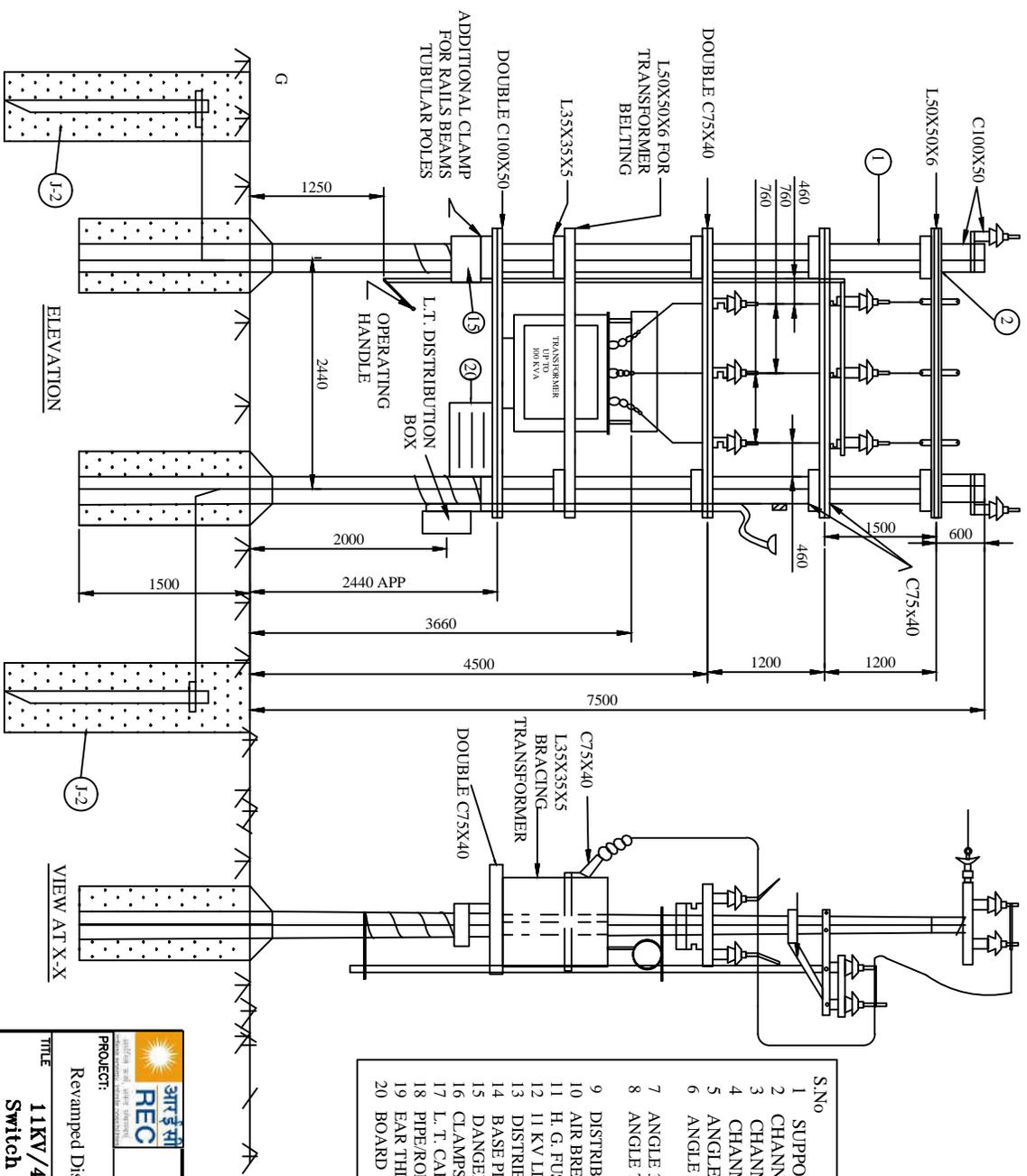


POLE MOUNTED SUB-STATION

FOR TENDER PURPOSE ONLY

 आर ई सी REC <small>ग्रामीण ज्योती, जनक विकास</small> <small>ग्रामिण ज्योती, जनक विकास</small>		Rural Electrification Corporation Ltd.		
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
TITLE: 11KV/433-250V Distribution Sub-Station with Drop out Fuses				
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR-SS/02	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



BILL OF MATERIAL

S.No	Description	Quantity	Remarks
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 75X40 - X. ARM FOR SUPPORTING	2	
9	DISTRIBUTION TRANSFORMER	4	
10	AIR BREAK SWITCH (HORIZONTAL TYPE)	1	1 SET
11	H. G. FUSE UNIT - 3 PHASE	1	1 SET
12	11 KV LIGHTING ARREST'S	3	
13	DISTRIBUTION BOX	1	
14	BASE PLATE (REFER K-1)	1	
15	ANGER BOARD	1	
16	CLAMPS, NUTS, BOLTS, BARBED WIRE ETC	1	AS REQD
17	L. T. CABLE	2	AS REQD
18	PIPE/ROD EAR THING (REFER J-2)	2	AS REQD
19	EAR THING SET	1	
20	BOARD	1	

FOR TENDER PURPOSE ONLY

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

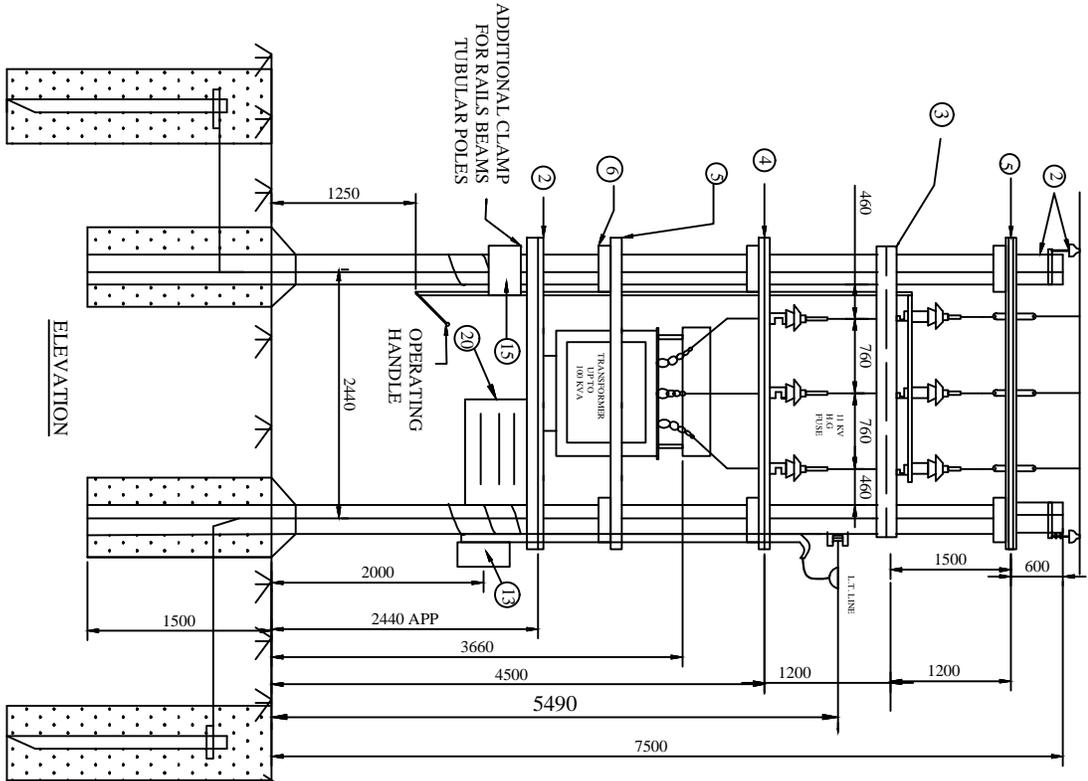


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

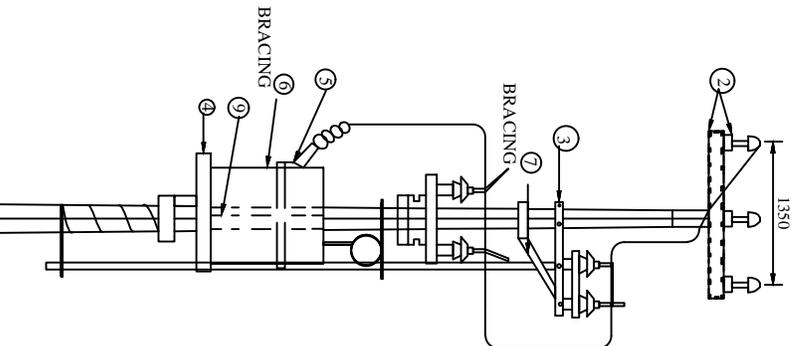
11KV/433-250V Distribution Sub-Station with AB Switch & Horn Gap Fuses

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



ELEVATION

VIEW AT X-X



BILL OF MATERIAL

S.No	Description	Quantity
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	A - B SWITCH - 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 EAR THING (REFER J-2)	AS REQD
19	EAR THING SET	AS REQD
20	BOARD	1

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

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

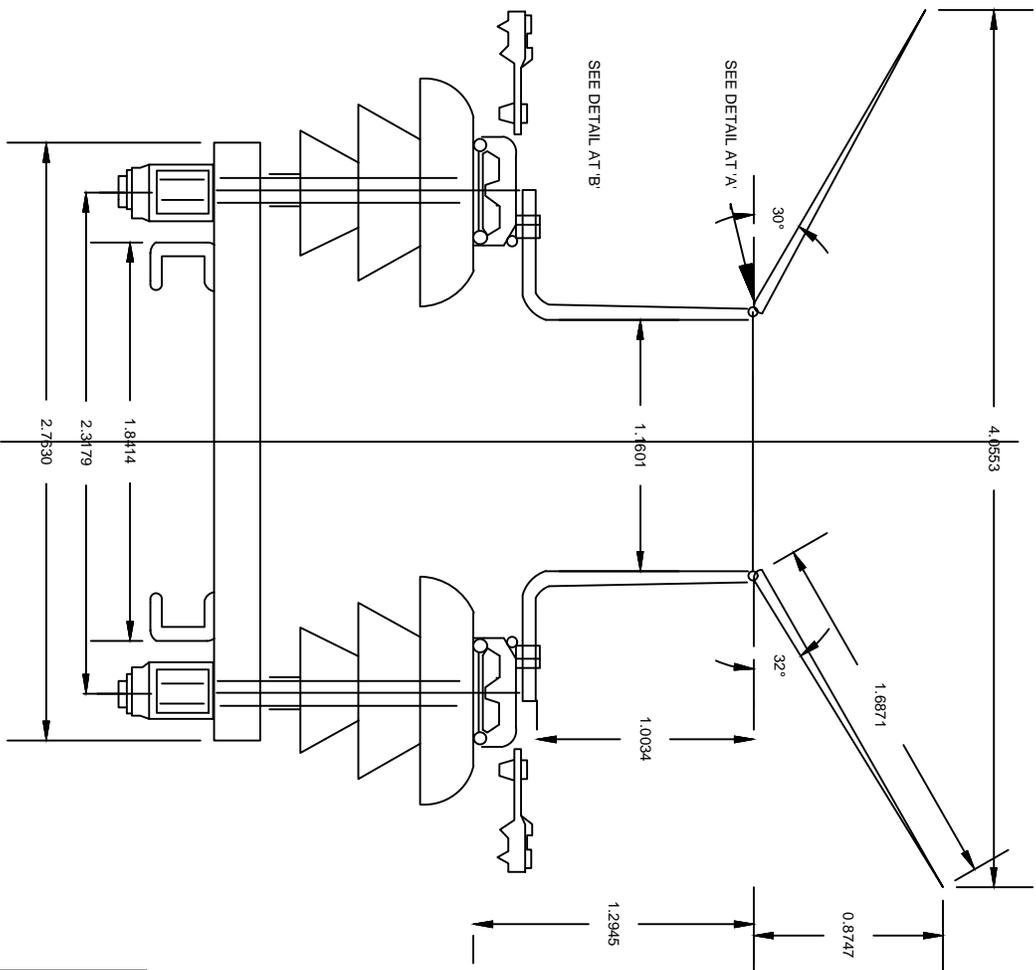


PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RD					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /DTR-SS/04	1 OF 1	0



FOR TENDER PURPOSE ONLY

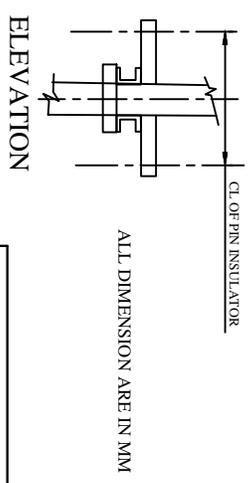
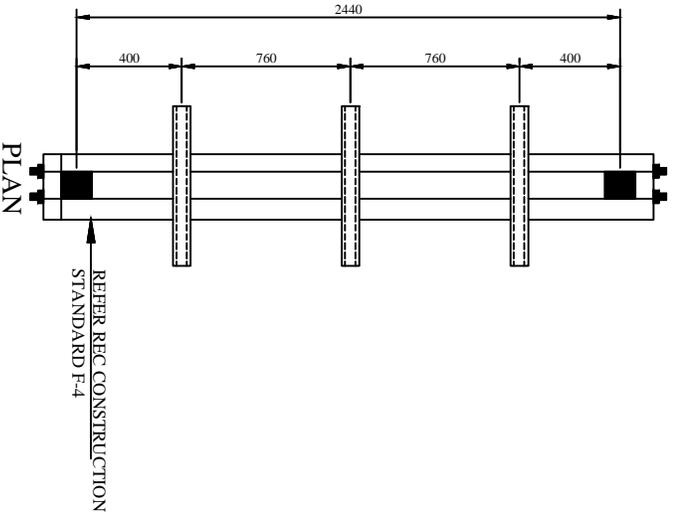
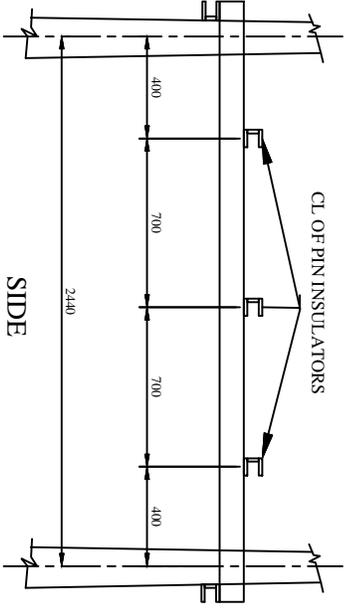
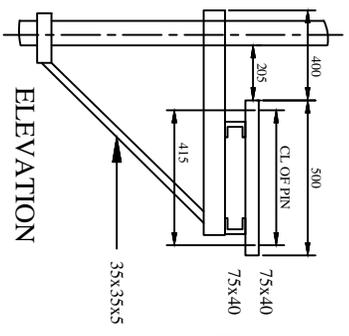
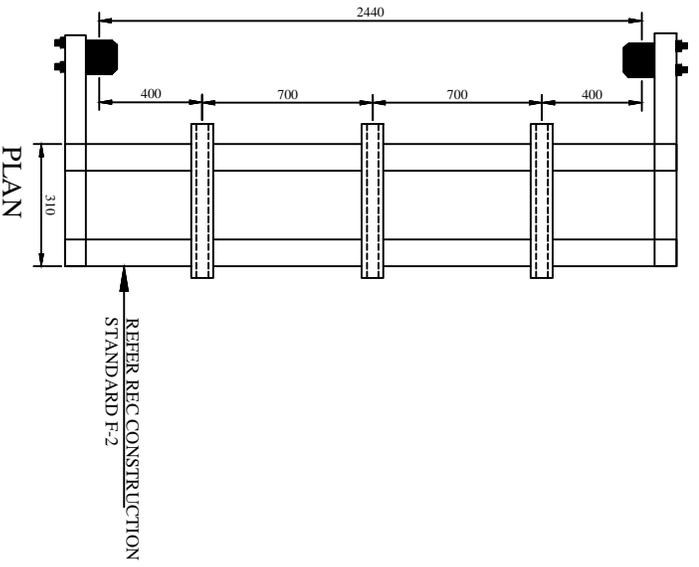
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: **11KV Horn Gap Fuses**

NO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DWG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /DTR-SS/05	1 OF 1	0



FOR TENDER PURPOSE ONLY

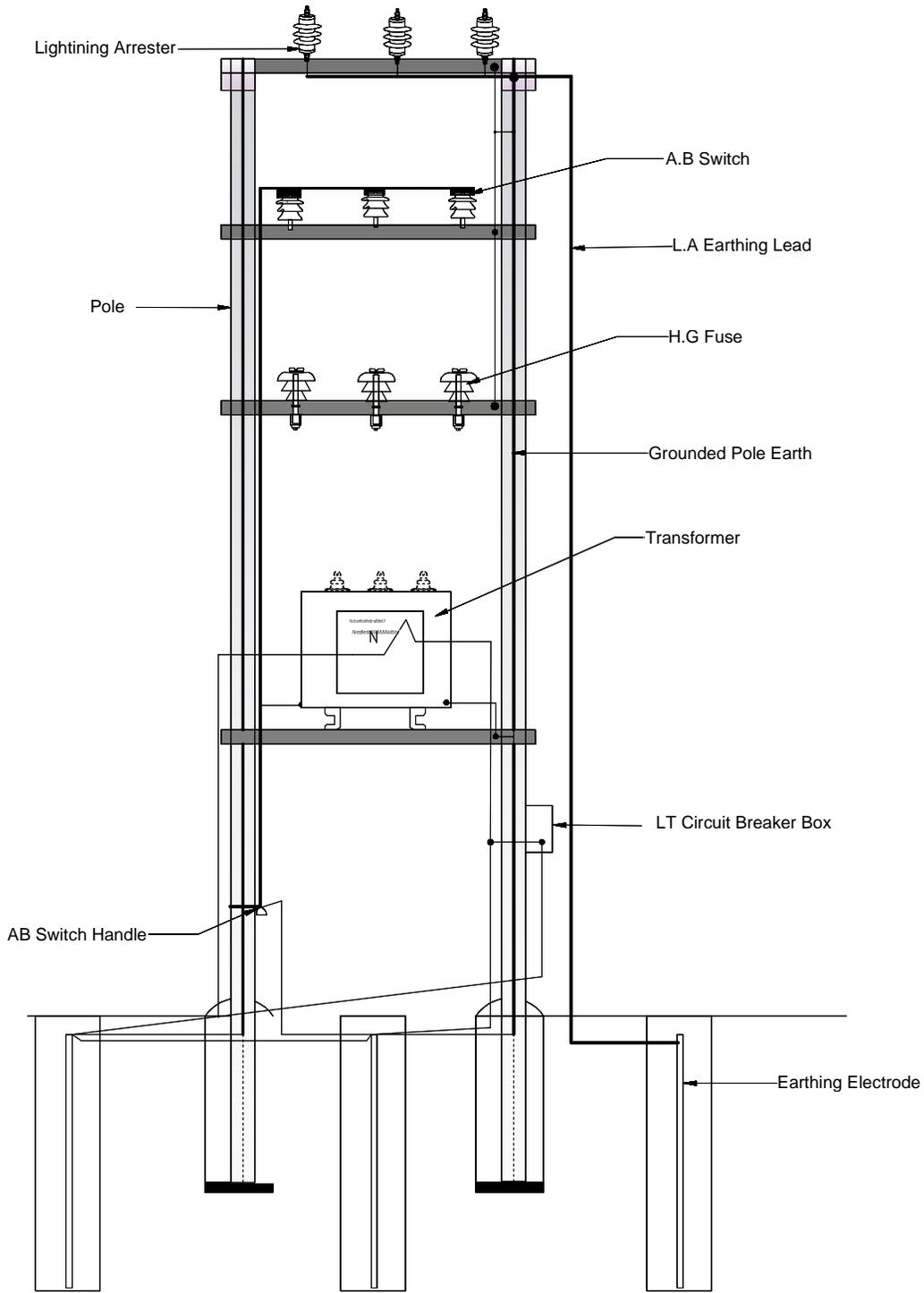
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: **11KV Horn Gap Fuses Mounting Details**

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RD					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /DTR-SS/06	1 OF 1	0



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

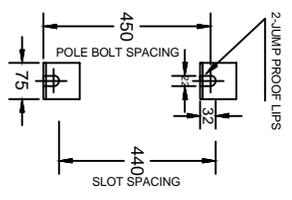
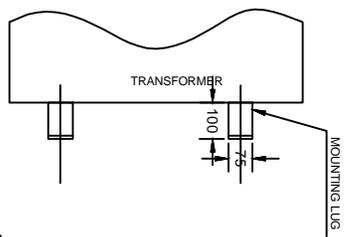
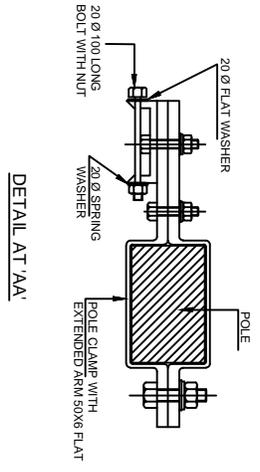
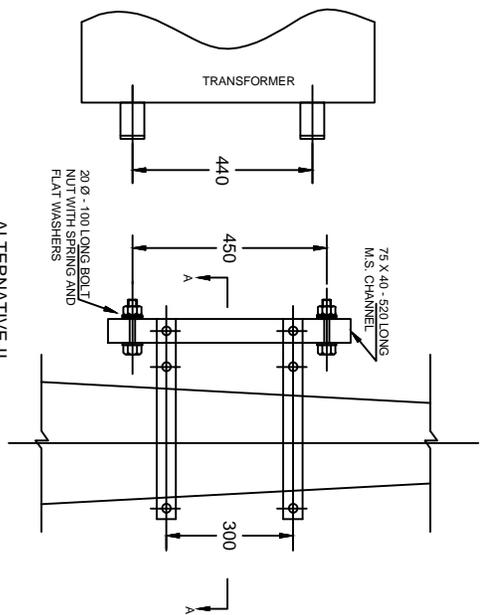
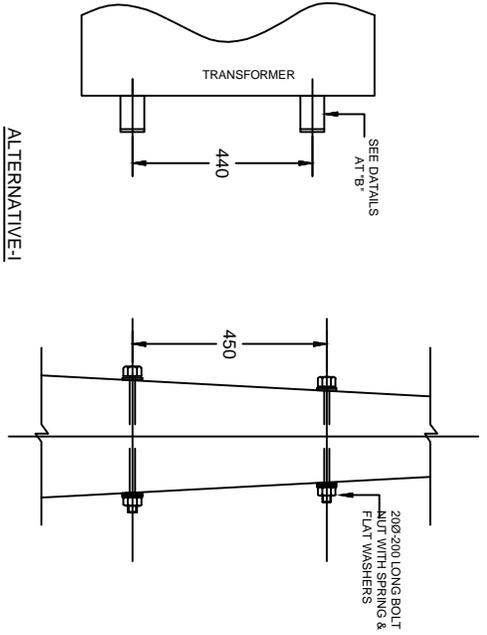
Revamped Distribution Sector Scheme (RDSS)

TITLE

Earthing Arrangement For Distribution Sub-Station

RD 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



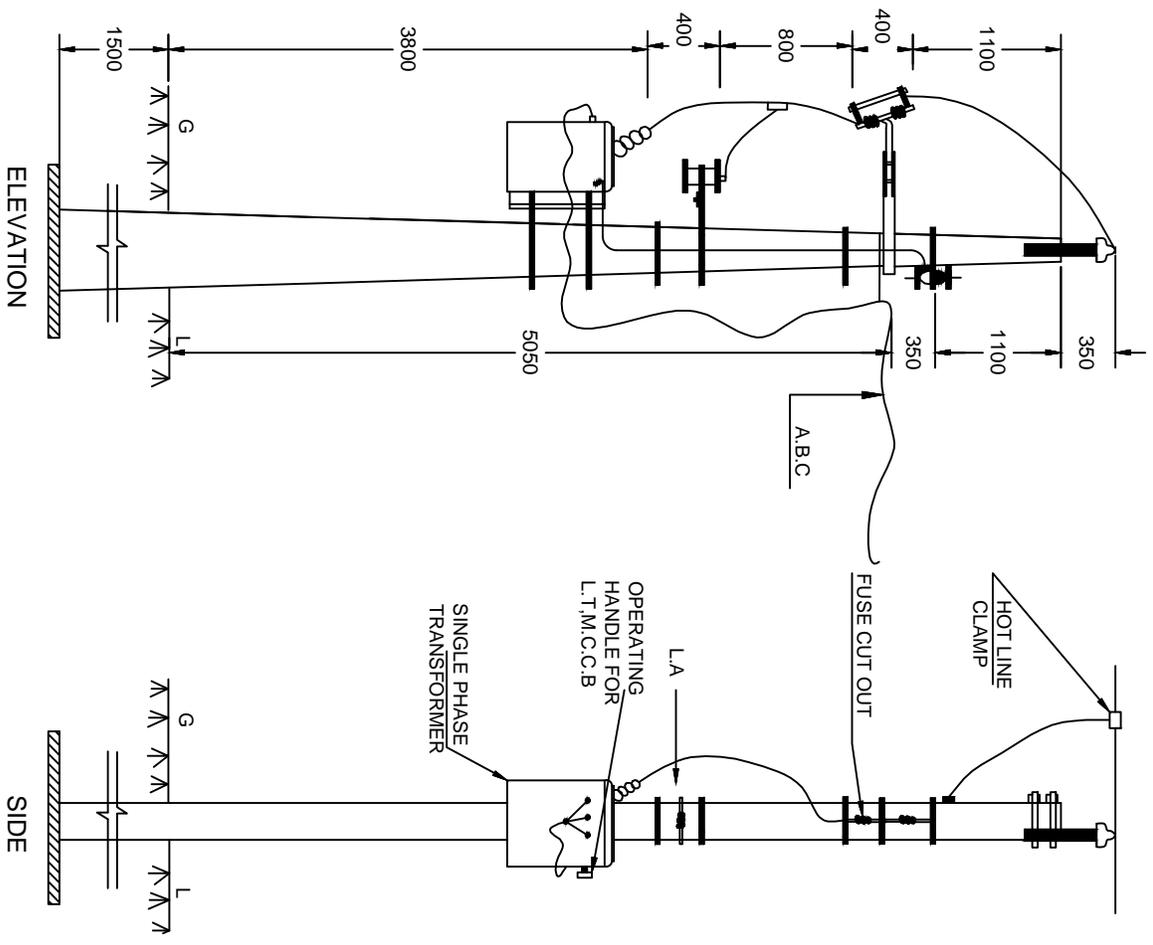
NOTE:-
 1. ALTERNATIVE-I WILL BE USED WHEN SUITABLE HOLES ARE AVAILABLE IN THE FOR THROUGH BOLTS.
 2. ALTERNATIVE-I WILL BE USED WITH POLE CLAMPS.

FOR TENDER PURPOSE ONLY


3एनटीए
 PROJECT: Revamped Distribution Sector Scheme (RDSS)
 Rural Electrification Corporation Ltd.

TITLE: Single Phase Transformer Mounting Details

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/DTR-SS/08	1 OF 1	0



BILL OF MATERIAL

P.C.C SUPPORTS 8 M	1 No.
POLE WITH BRACKET	1 No.
11 KV PIN INSULATOR WITH PIN	1 No.
SHACKLE INSULATOR	1 No.
U-CLAMP WITH BOLT	1 No.
L.A WITH FIXTURE	1 No.
FUSE CUT OUT WITH FIXTURE	1 No.
SINGLE PHASE TRANSFORMER WITH L.T.M.C.C.B AND FIXTURE	1 No.
A.B.C	AS REQD.
POLE CLAMP	1 No.
EARTHING MATERIAL,NUTS,BOLTS,CLAMPS,ETC.	AS REQD.
HOTLINE CLAMP	1 No.
BASE PLATS	1 No.

NOTE:-
THE TRANSFORMER MOUNTING DETAILS ARE GIVEN IN R.E.C CONSTRUCTION STANDARD 'F-14'.
ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

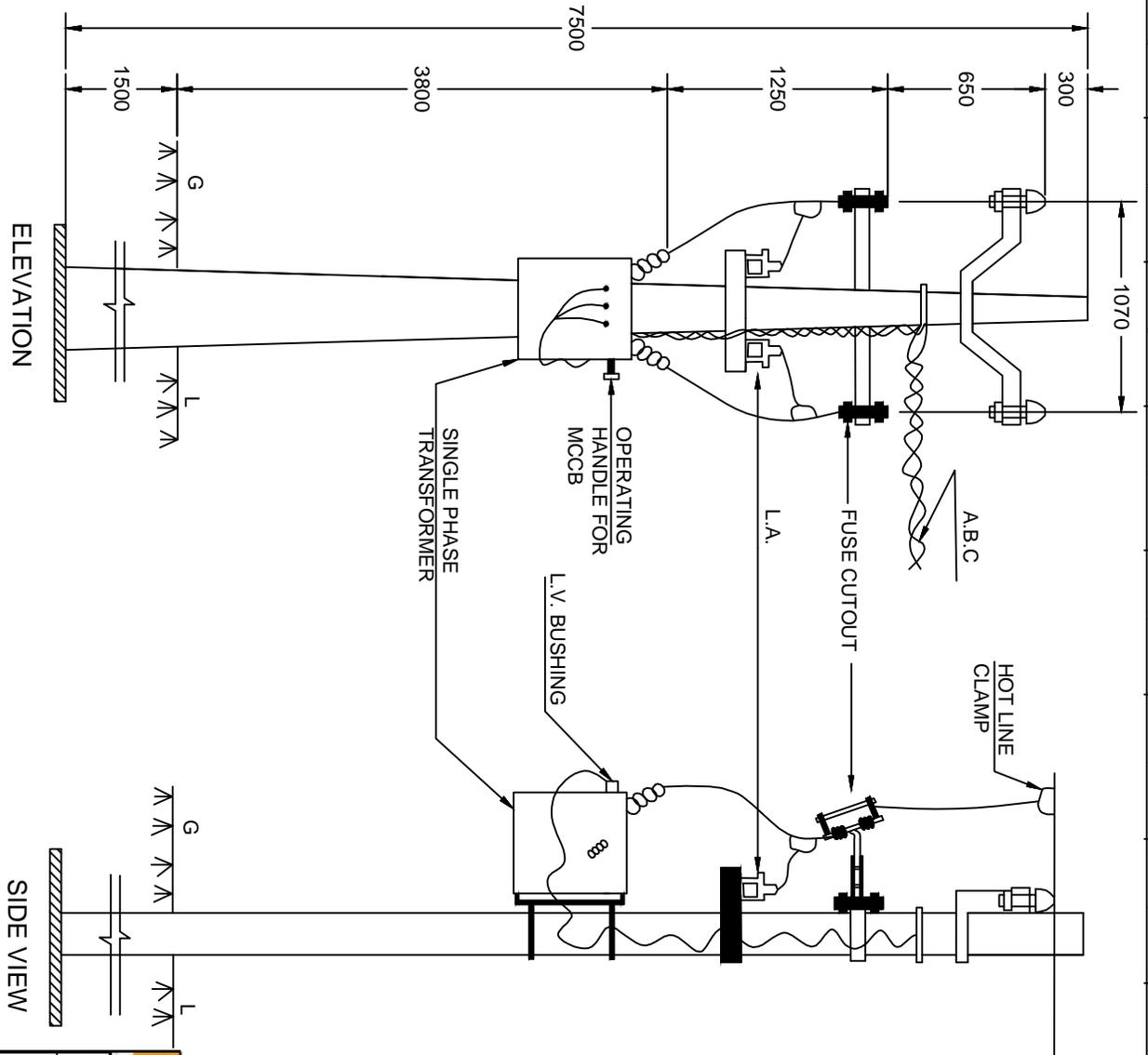
Rural Electrification Corporation Ltd.


3एनईसी
 PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/DTR-SS/09	1 OF 1	0



BILL OF MATERIAL

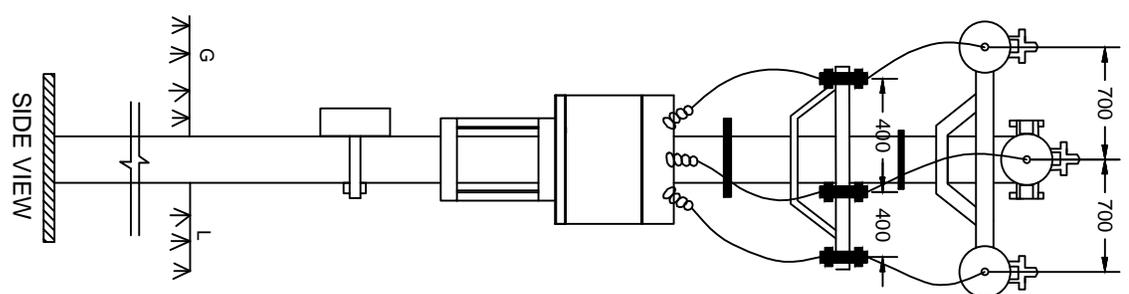
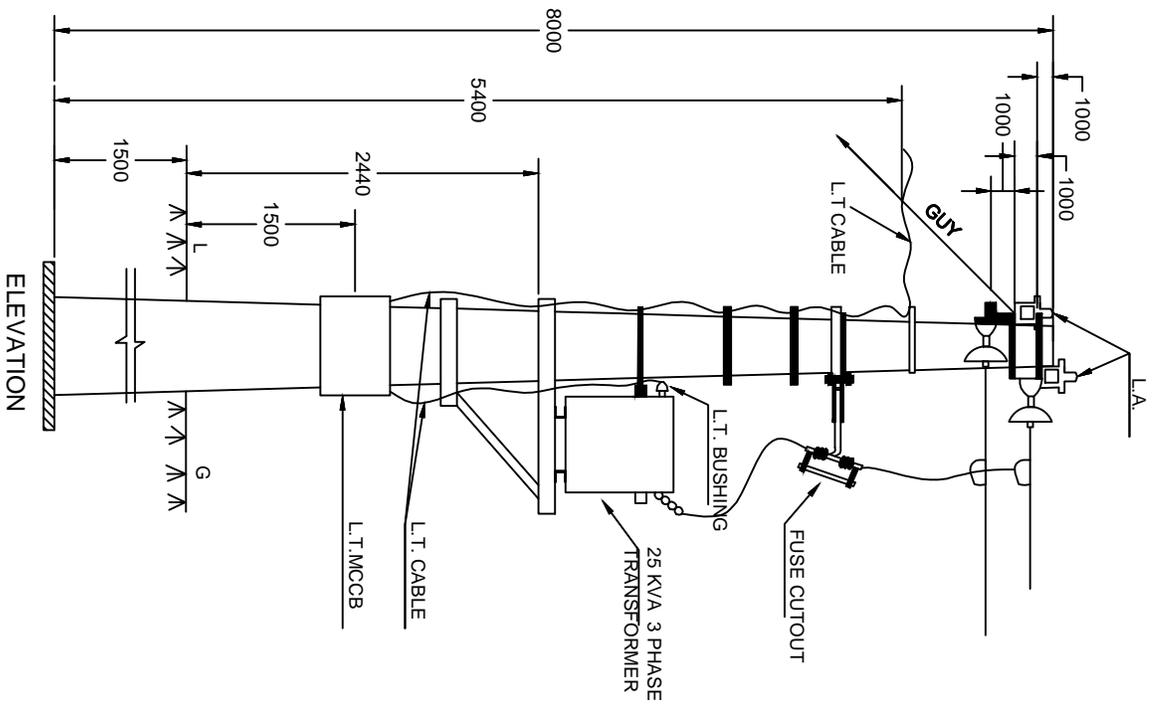
P.C.C POLE 7.5 M	1 No.
V-CROSS ARM 75X40	1 No.
HORIZONTAL CROSS ARM D:5X40X1150	1 No.
11 KV PIN INSULATOR WITH PINS	2 No.
11 KV N.G FUSEBOX FUSE CUT-OUT	2 No.
11 KV L.A.	2 No.
11 KV SINGLE PHASE TRANSFORMER	1 No.
M.S.200X50X6-600 FOR L.S.S FITTING	1 No.
BASE PLATE	1 No.
EARTHING MATERIAL,NUTS,BOLTS,CLAMPS	AS REQD.
HOT LINE CLAMPS	2 NOS.
ABC	AS REQD.

NOTE:-
 1. TRANSFORMER MOUNTING DETAILS ARE AS PER REC CONSTRUCTION STANDARD AD-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

REC 3एन डी सी
 PROJECT: Revamped Distribution Sector Scheme (RDSS)
 Rural Electrification Corporation Ltd.

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/DTR-SS/10	1 OF 1	0



BILL OF MATERIALS

SUPP ORTS (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.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

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

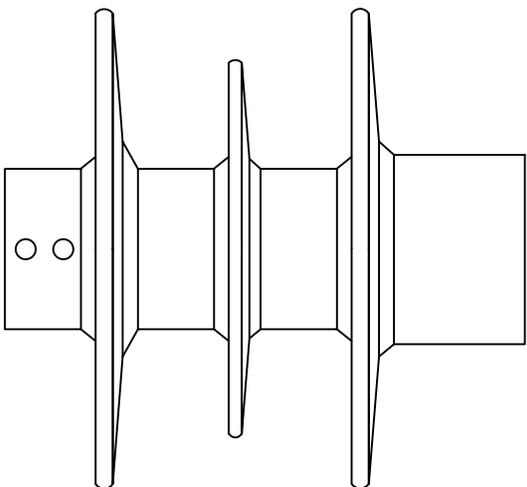
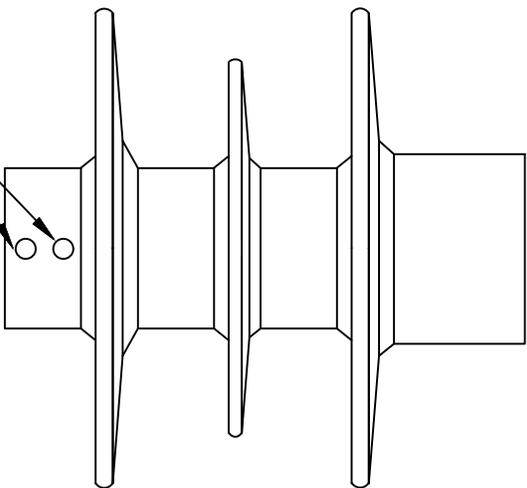
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Distribution Sub-Station Mounting
Arrangement on Single Pole

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/DTR-SS/11	1 OF 1	0

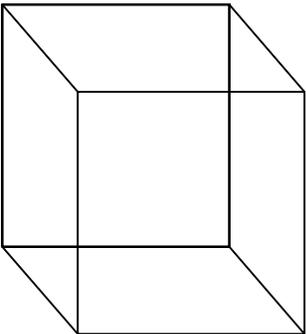
LOT No DATE
CLOCKS



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)

SIZE/SCALE

A3 MTS

PRG. NO.

REC/RDSS/DTR-SS/13A

SHT. NO. REV. NO.

1 OF 1 0

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

FOR TENDER PURPOSE ONLY

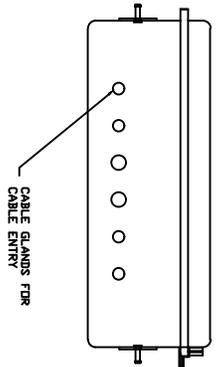
REC अरु ई सी
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

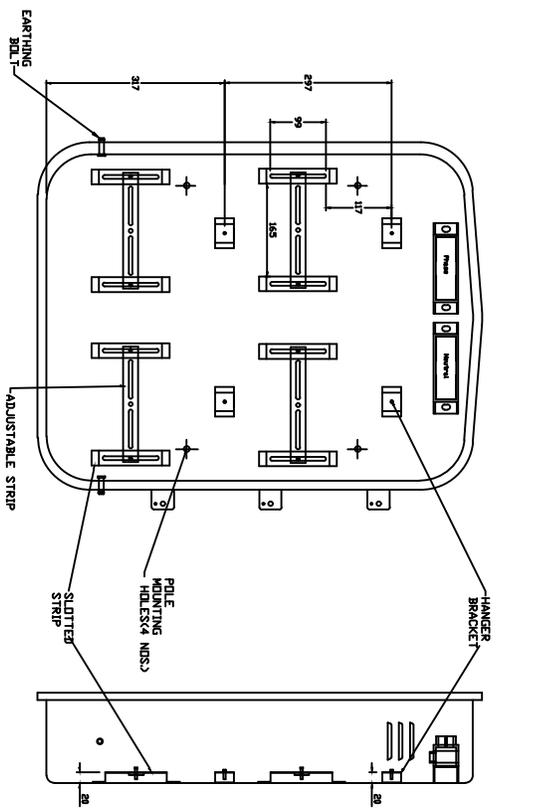
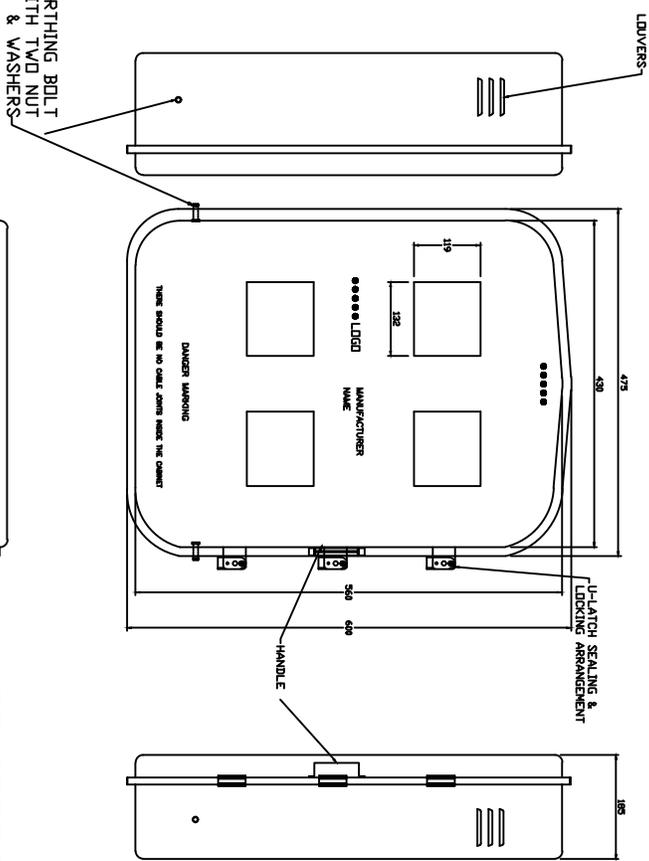
TITLE: 4-IN-1 MMB FOR SINGLE PHASE METER WITH MOC
 (MULTIPLE OUTGOING CONNECTOR BOX)

All dimensions are in mm.

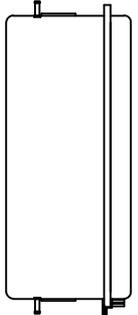
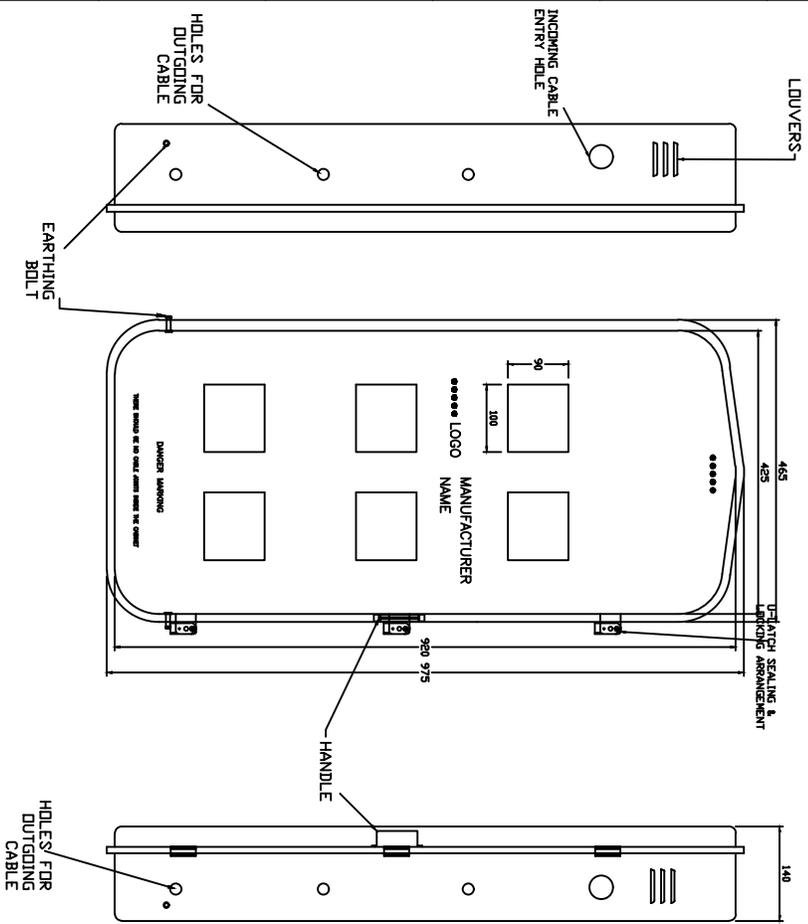
EARTHING BOLT WITH TWD NUT & WASHERS



UTILITY NAME TO BE PROVIDED AS PER CUSTOMER REQUIREMENT

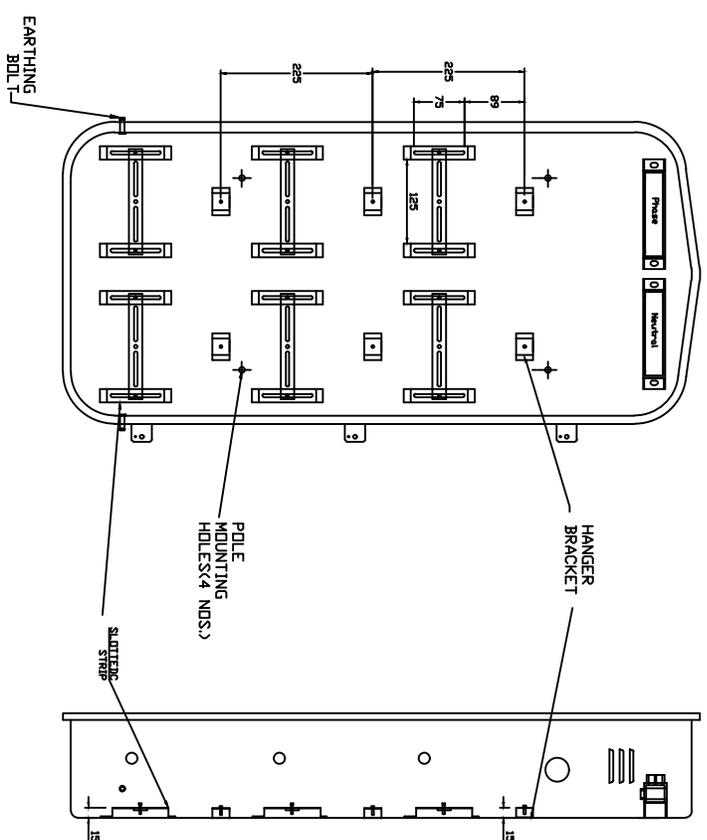


REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
						A3 MTS	REC/RDSS/DTR SS/14	1 OF 1	0



..... UTILITY NAME TO BE PROVIDED AS PER CUSTOMER REQUIREMENT

All dimensions are in mm.



FOR TENDER PURPOSE ONLY

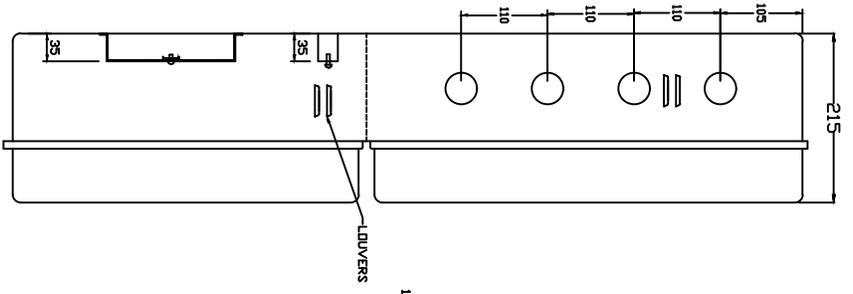


Rural Electrification Corporation Ltd.

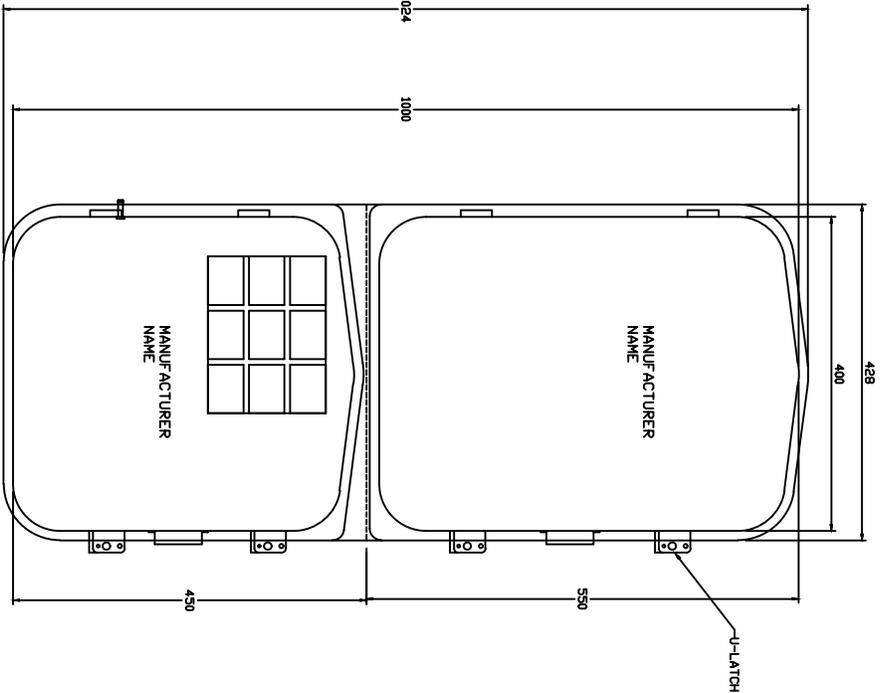
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

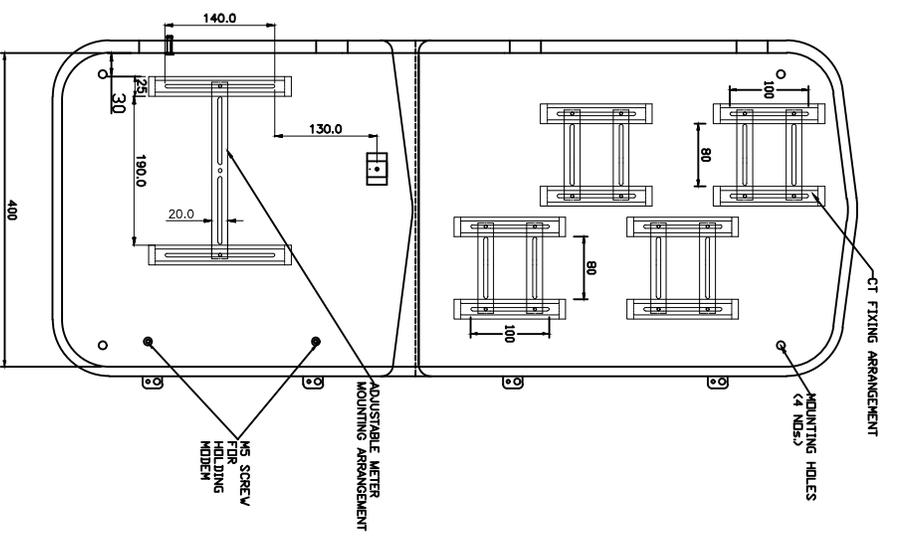
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
						A3 MTS	REC/RDSS/DTR SS/15	1 OF 1	0



SIDE VIEW



FRONT VIEW WITH COVER



FRONT VIEW WITHOUT COVER

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

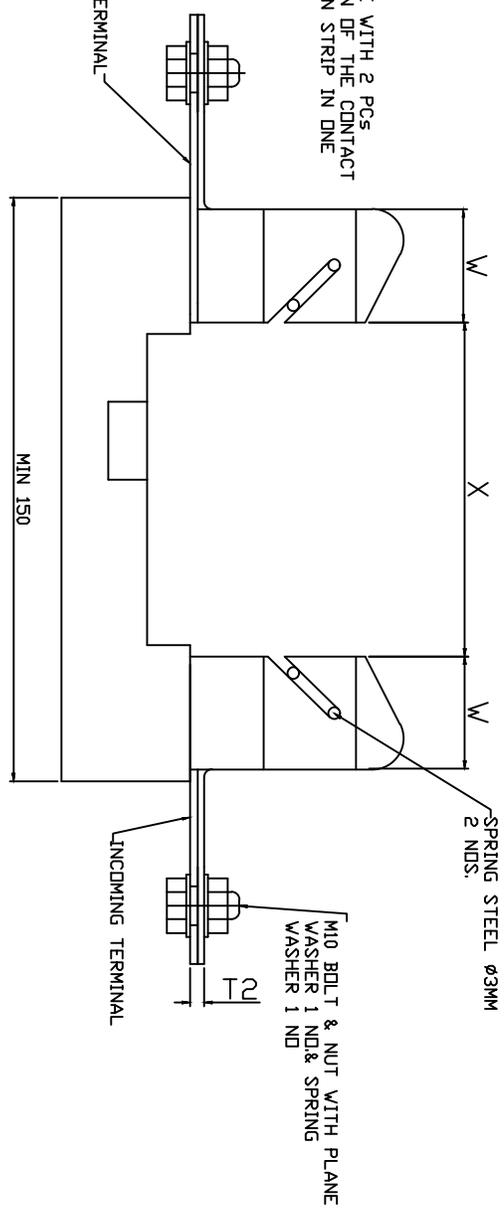
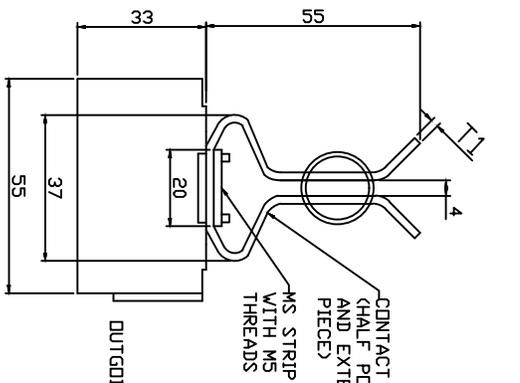
REV. NO.	RO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

SIZE SCALE	PRG. 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 CT'S & 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.

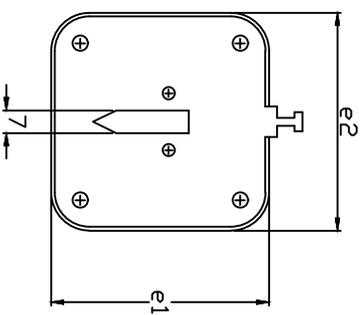
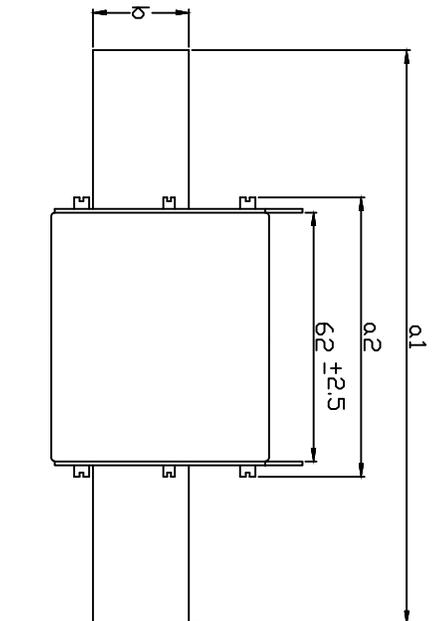
RO						
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	

FOR TENDER PURPOSE ONLY
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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 ±2.5	75	20	53	52
HRC LINK 315A	150 ±2.5	75	25	61	60
HRC LINK 500A	150 ±2.5	75	32	76	75

All dimensions are in mm.



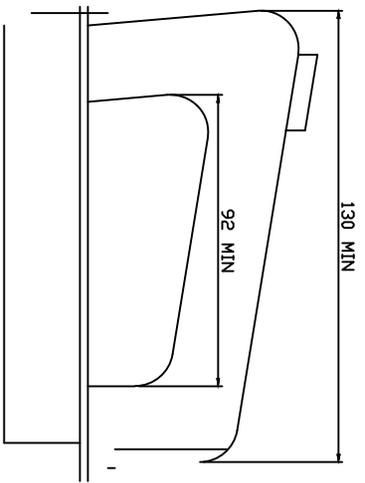
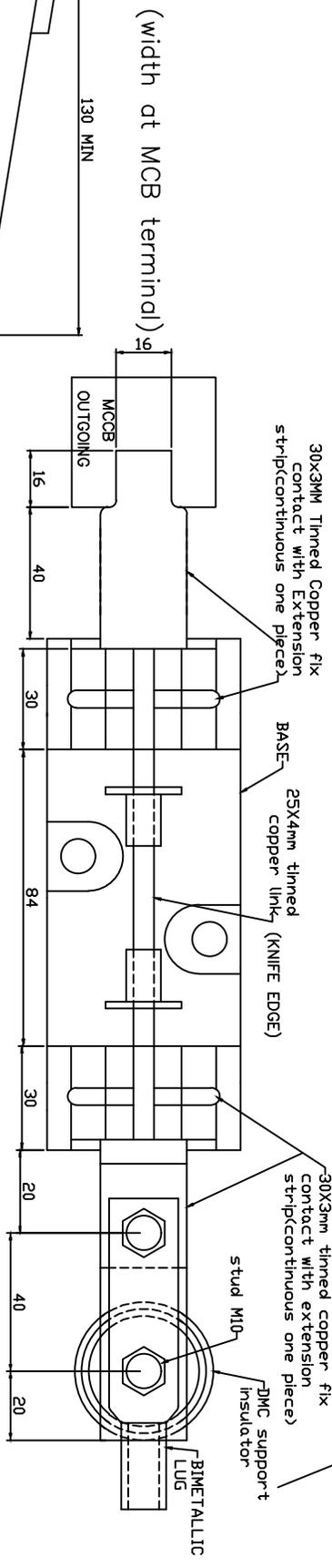
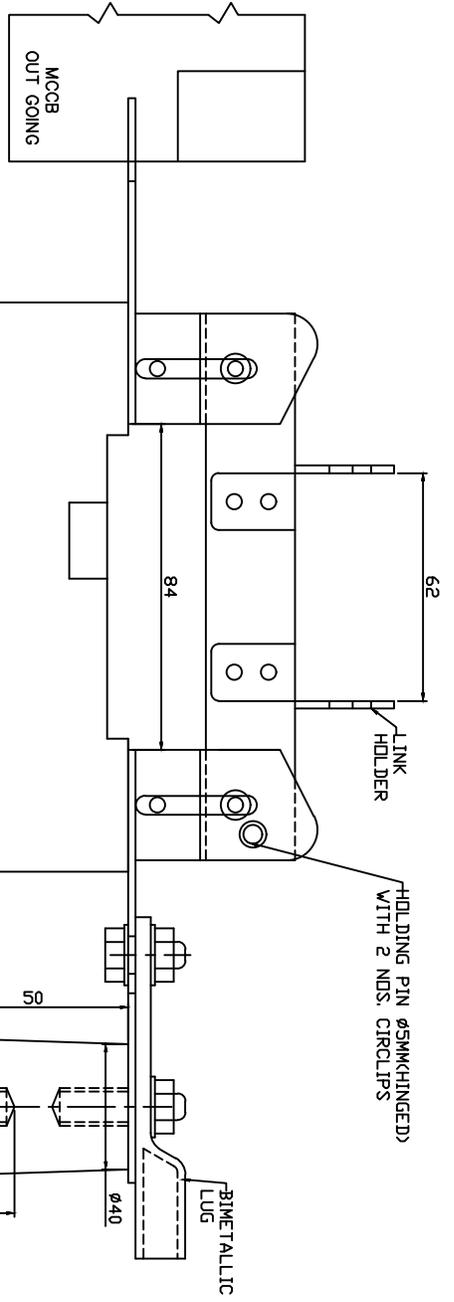
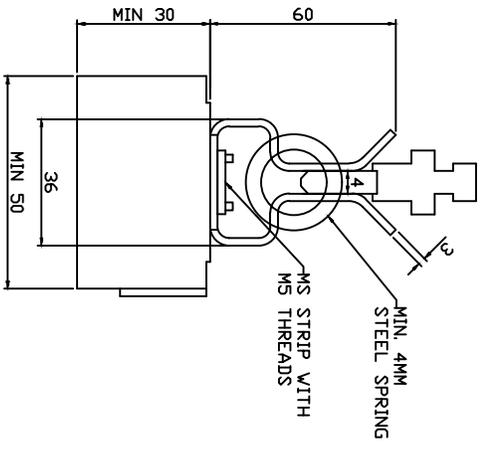
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: HRC FUSE LINK

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE SCALE	PRG. NO.	SHT. NO.	REV. NO.
R0						A3	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

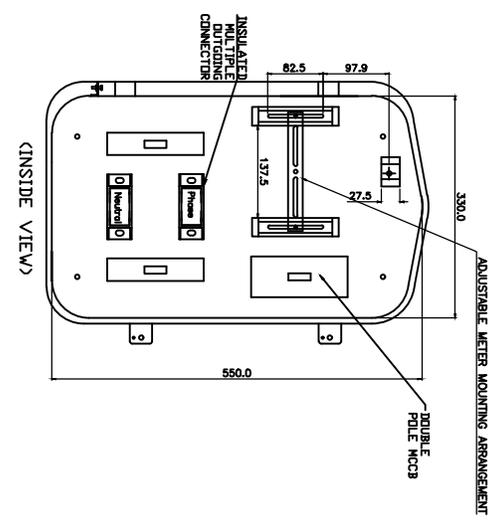
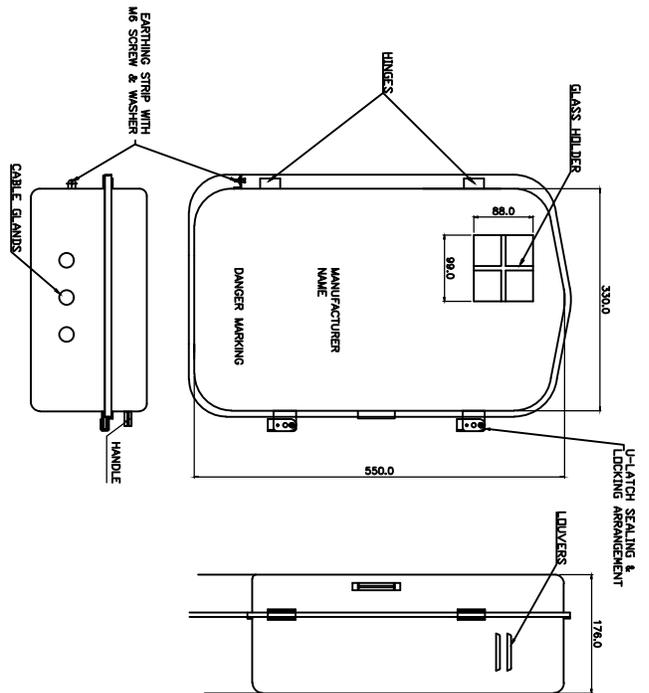
SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/19	1 OF 1	0

REC **अरुण**

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

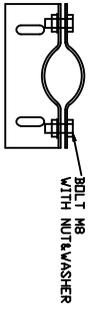
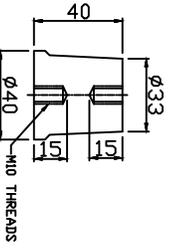
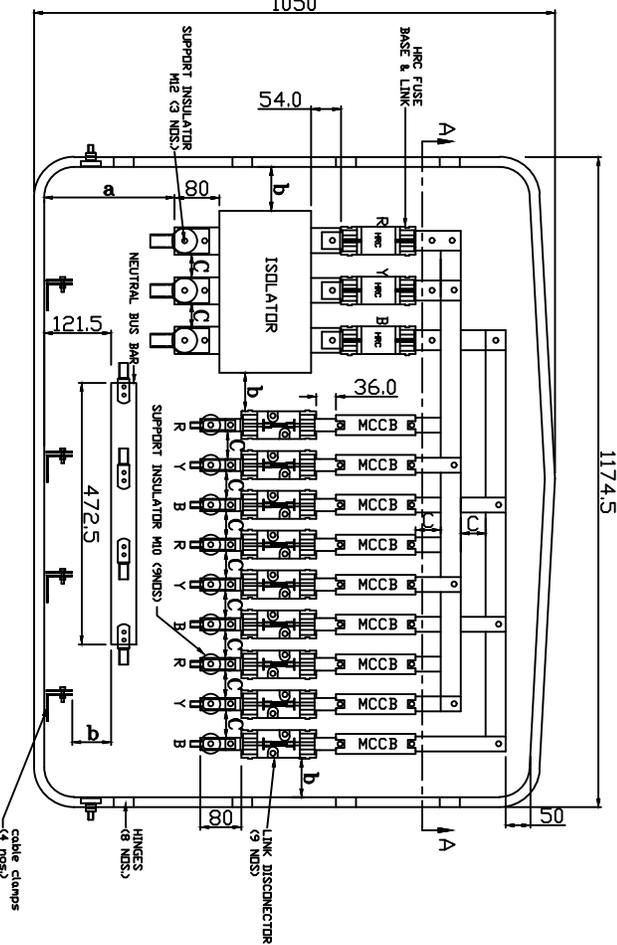
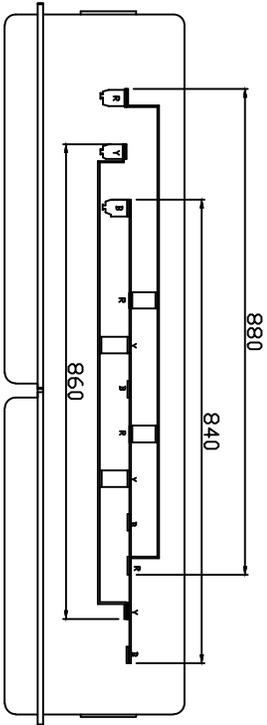
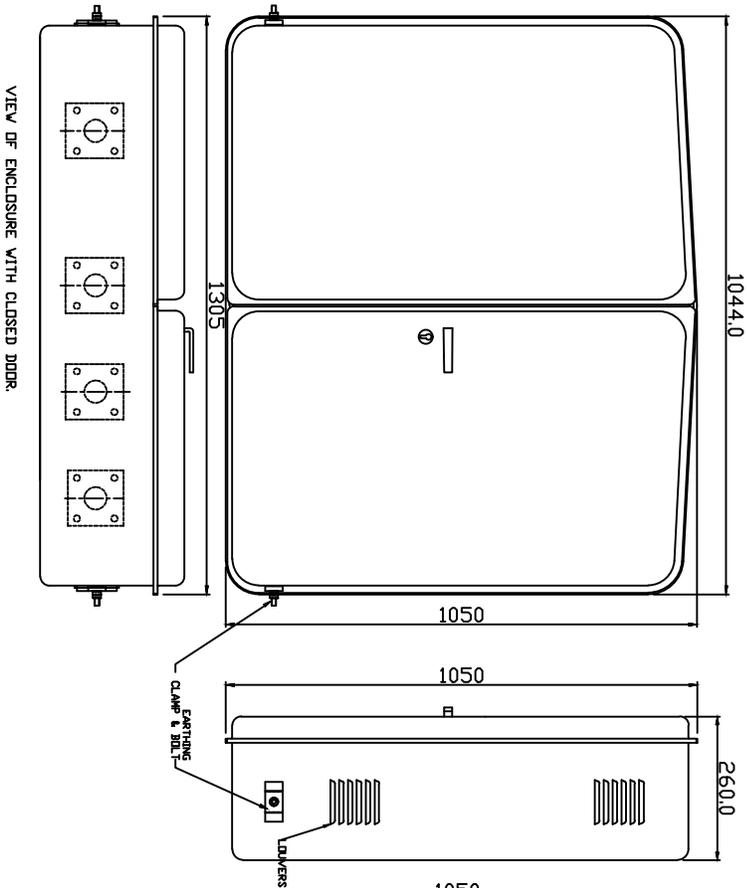
REC **आर ई सी**
Rural Electrification Corporation Ltd.

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 NTS	REC/RDSS/DTR SS/20	1 OF 1	0

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



All dimensions are in mm.

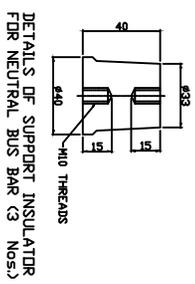
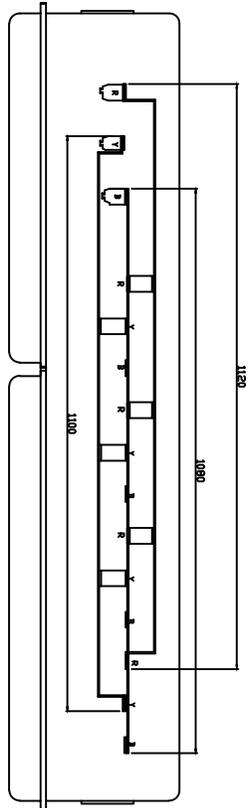
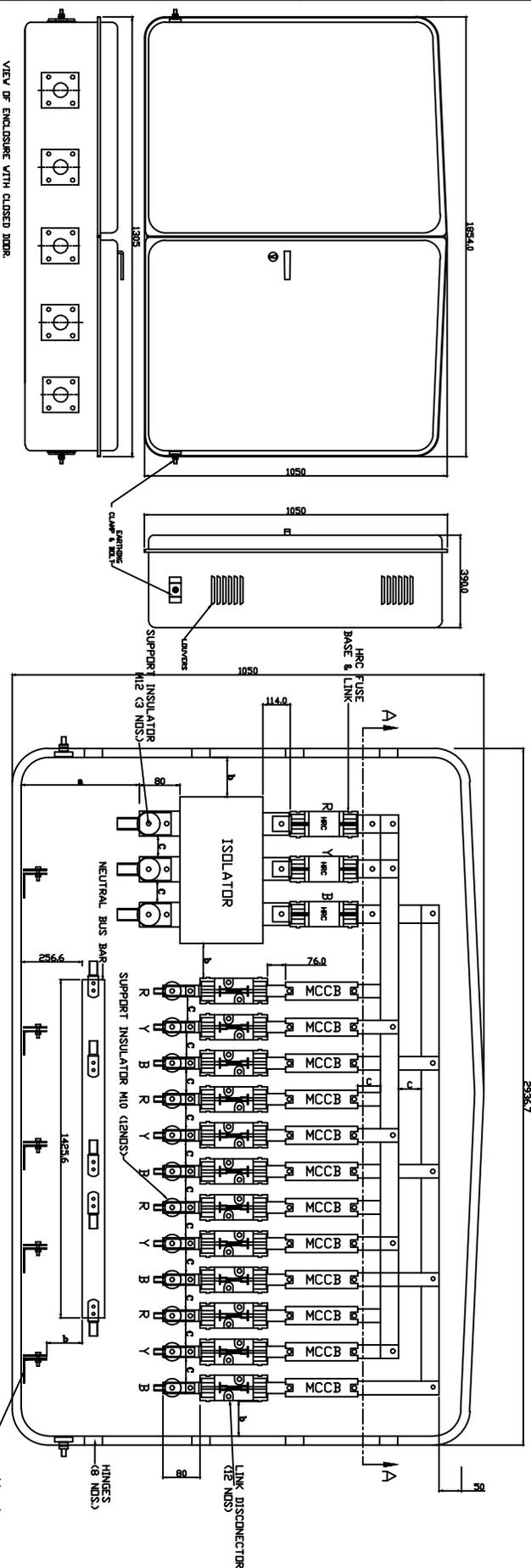
FOR TENDER PURPOSE ONLY

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

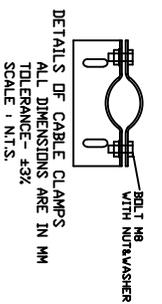
SIZE/SCALE	PRG. NO.
A3 MTS	REC/RDSS/DTR SS/21

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


Rural Electrification Corporation Ltd.
 PROJECT: Revamped Distribution Sector Scheme (RDSS)
 TITLE: L.T. DISTRIBUTION BOX FOR 200 KVA



MINIMUM CLEARANCE
 a = 250
 b = 75
 c = 50



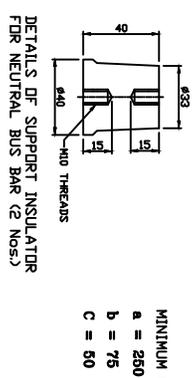
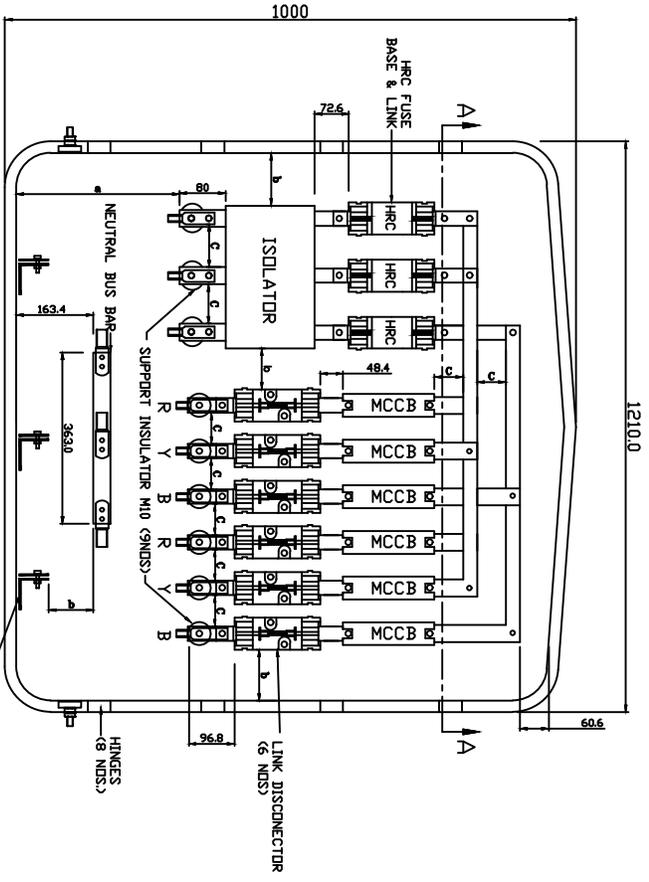
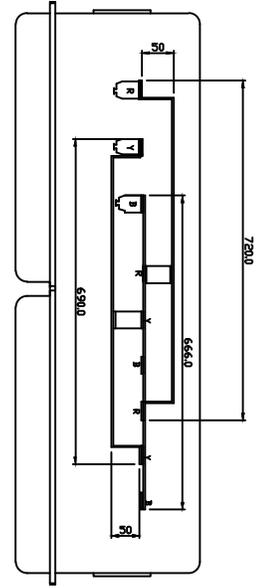
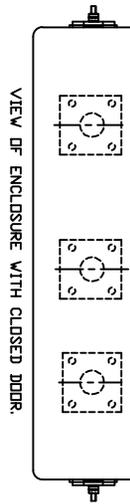
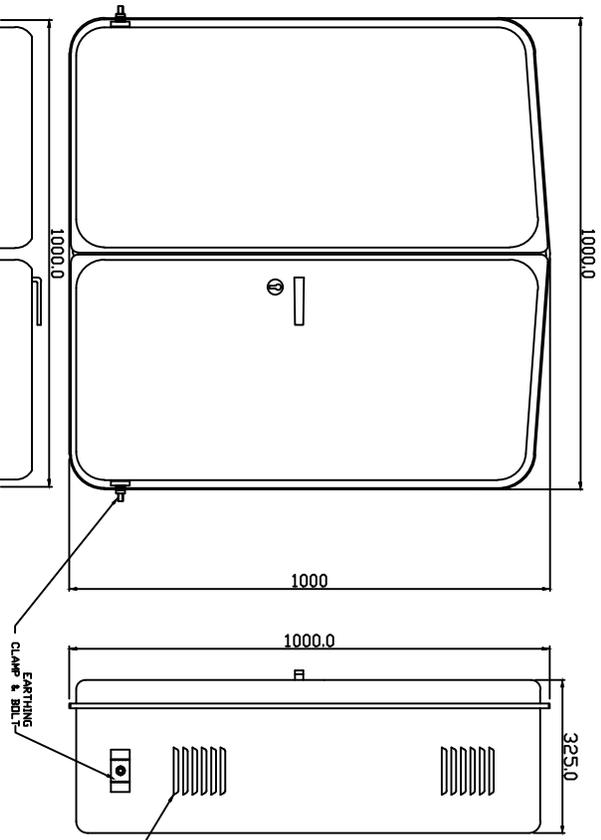
All dimensions are in mm.

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

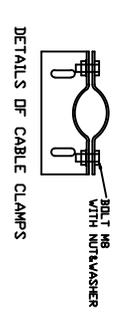
FOR TENDER PURPOSE ONLY

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

REC अरु ई सी
 Rural Electrification Corporation Ltd.
 PROJECT: Revamped Distribution Sector Scheme (RDSS)
 TITLE: L.T. DISTRIBUTION BOX WITH ASSY. DETAILS FOR 315 KVA



MINIMUM CLEARANCE
 a = 250
 b = 75
 c = 50



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

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

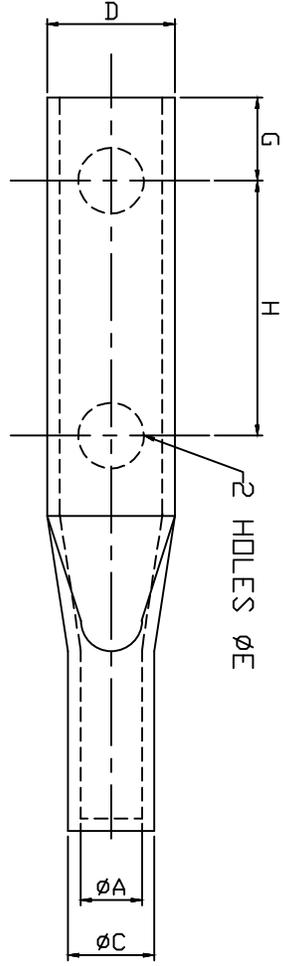
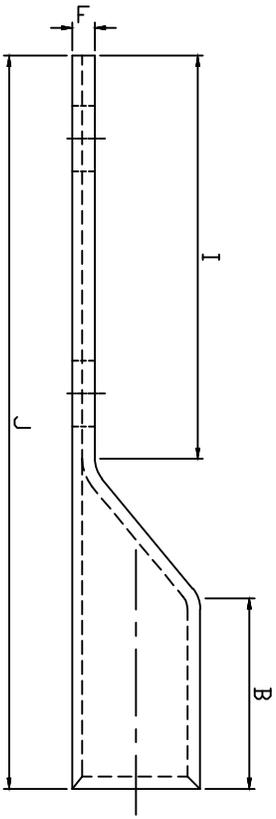
REV. NO.	RO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/23	1 OF 1	0

PROJECT:  **Rural Electrification Corporation Ltd.**

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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



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.

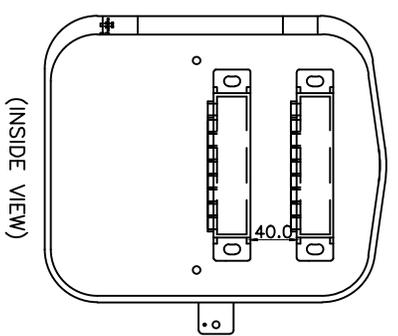
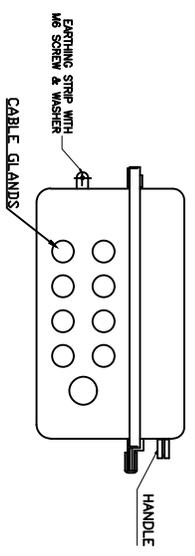
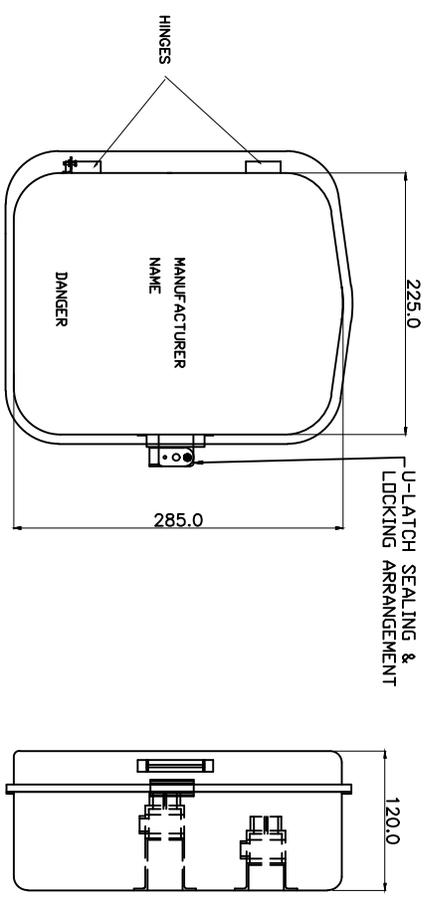
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: BIMETALLIC LUGS

SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/25	1 OF 1	0

FOR TENDER PURPOSE ONLY

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



FOR TENDER PURPOSE ONLY

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

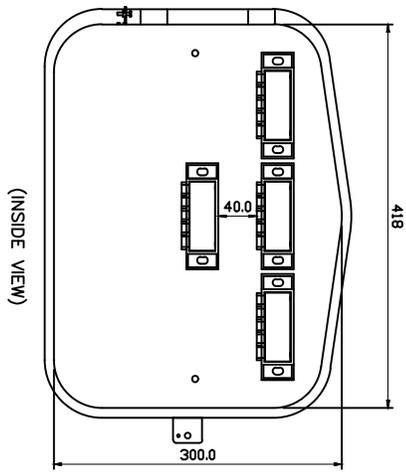
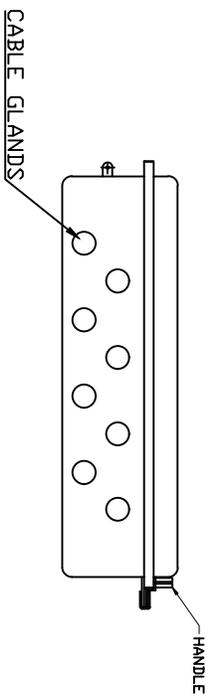
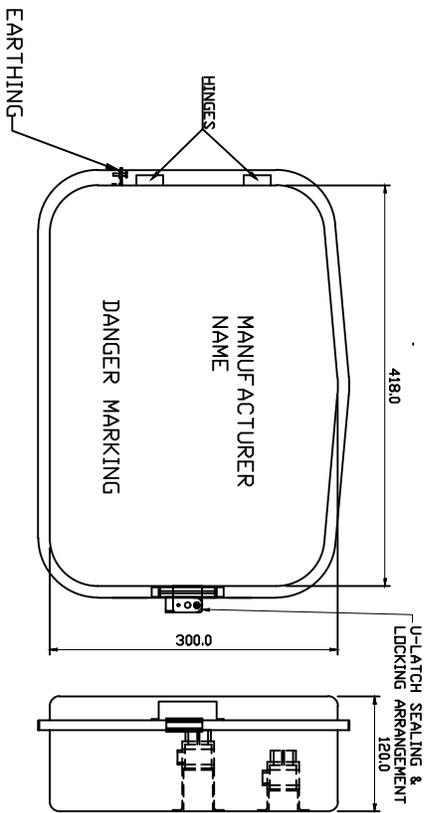
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: LT DISTRIBUTION BOX FOR SINGLE PHASE ABC

All dimensions are in mm.

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

SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/DTR SS/26	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

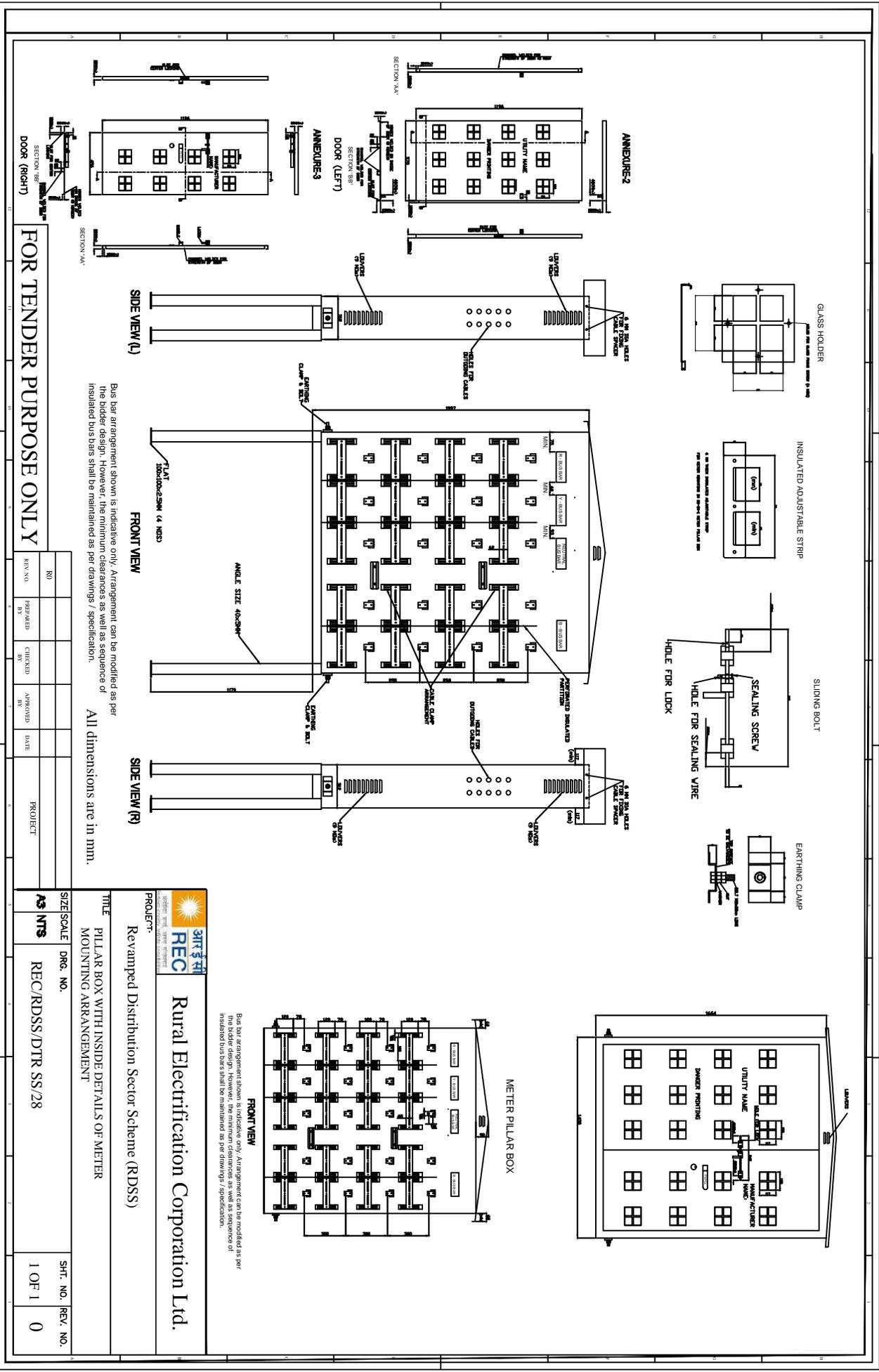


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

REV. NO.	REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0						
SIZE SCALE	DRG. NO.	SHT. NO.				REV. NO.
A3 NTS	REC/RDSS/DTR SS/27	1 OF 1				0



Bus bar arrangement shown is indicative only. Arrangement can be modified as per the bidder design. However, the minimum clearances as well as sequence of insulated bus bars shall be maintained as per drawings / specification.

Bus bar arrangement shown is indicative only. Arrangement can be modified as per the bidder design. However, the minimum clearances as well as sequence of insulated bus bars shall be maintained as per drawings / specification.

FOR TENDER PURPOSE ONLY

NO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

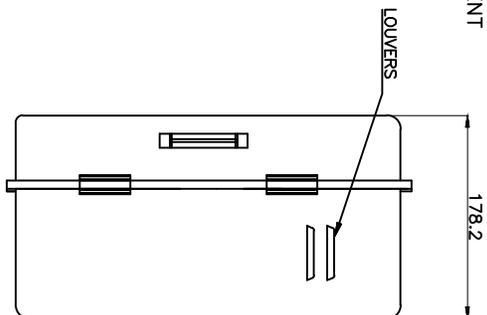
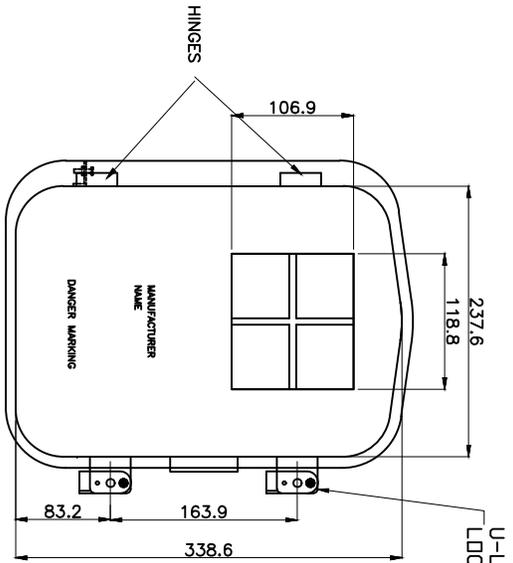
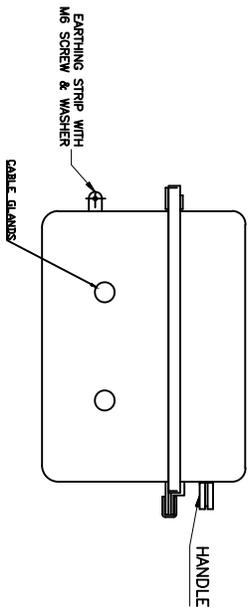
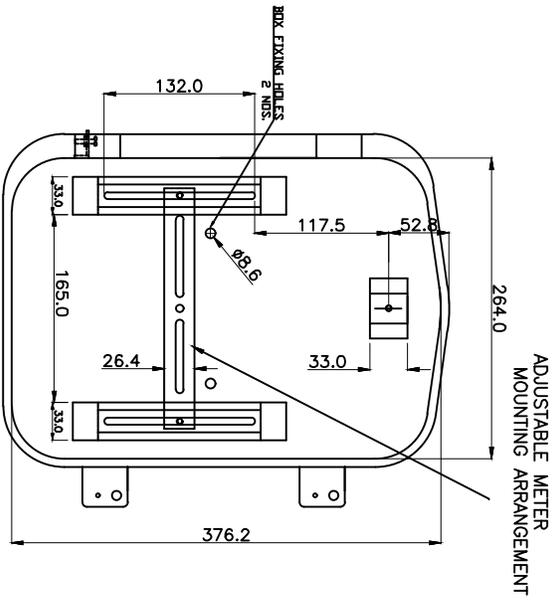
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
AS NTS	REC/RDSS/DTR SS/28	1 OF 1	0

REC
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: PILLAR BOX WITH INSIDE DETAILS OF METER MOUNTING ARRANGEMENT

(INSIDE VIEW)



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

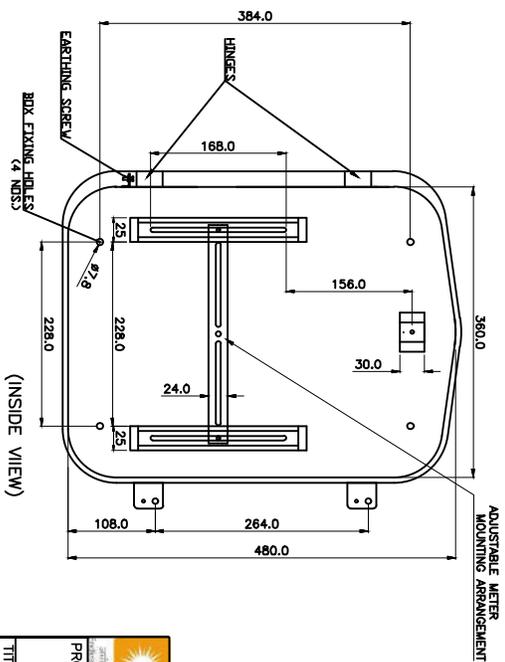
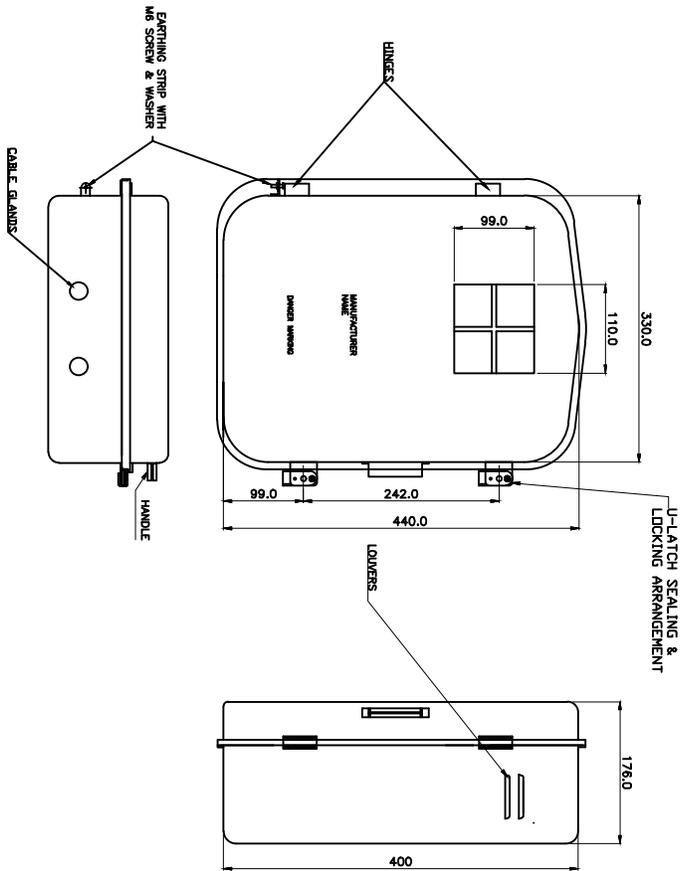
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE SCALE: A3 MTS
 DRG. NO.: REC/RDSS/DTR SS/29

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

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



All dimensions are in MM.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.



PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

METAL METER BOX FOR THREE PHASE METTER (DEEP DRAWN METHOD)

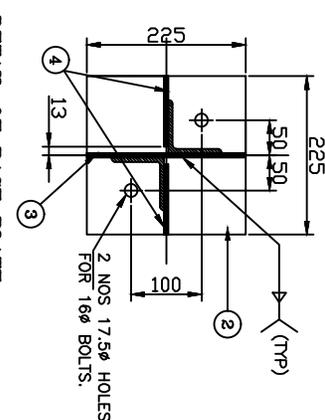
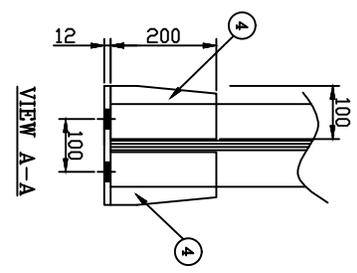
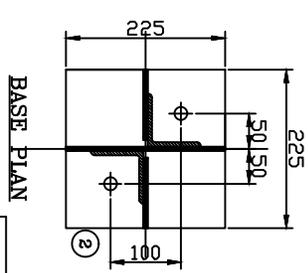
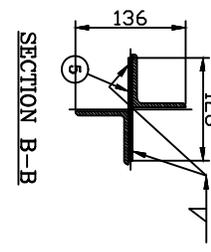
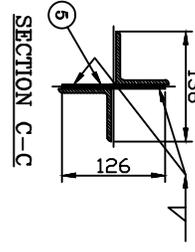
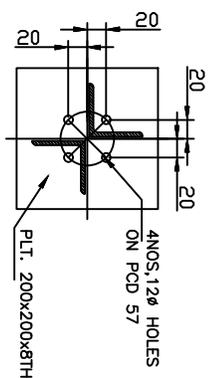
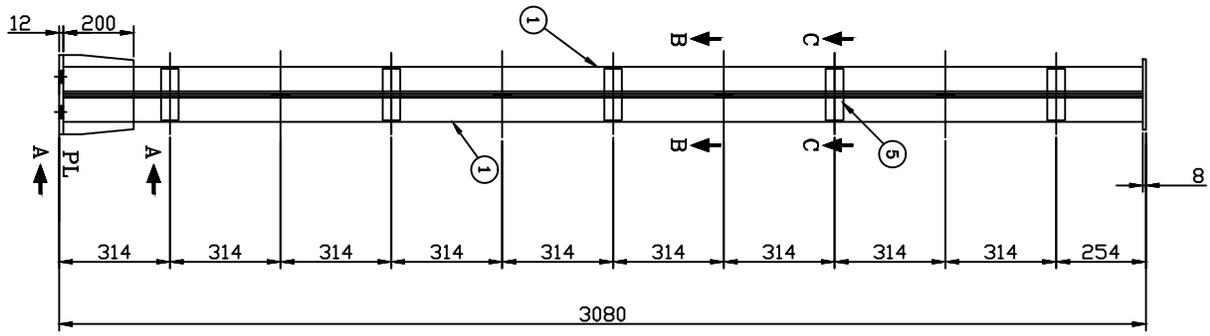
SIZE SCALE DRG. NO.

A3 NTS REC/RDSS/DTR SS/30

SHT. NO. REV. NO.

1 OF 1 0

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



BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH MM	WIDTH MM	UNIT WT Kg/m	TOTAL WT IN Kg
1	L 65x65x6	2	3054	-	5.80	35.426
2	PL 12THK	1	225	225	94.2	4.769
3	PL 6THK	1	200	225	47.10	2.120
4	PL 6THK	2	100	200	47.10	1.884
5	PL 6THK	8	50	146	47.10	2.751
6	PL 8THK	1	200	200	62.80	2.512
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 17.5mmØ FOR 16mmØ 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/5sqm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L45x45x5 WILL HAVE 25mm 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 PREFEXED WITH "3P".
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2082.
9. ALL WELDS SHALL BE 6 mm FILET 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.

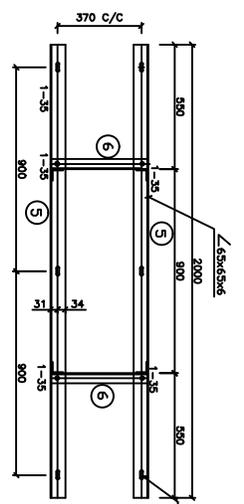
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

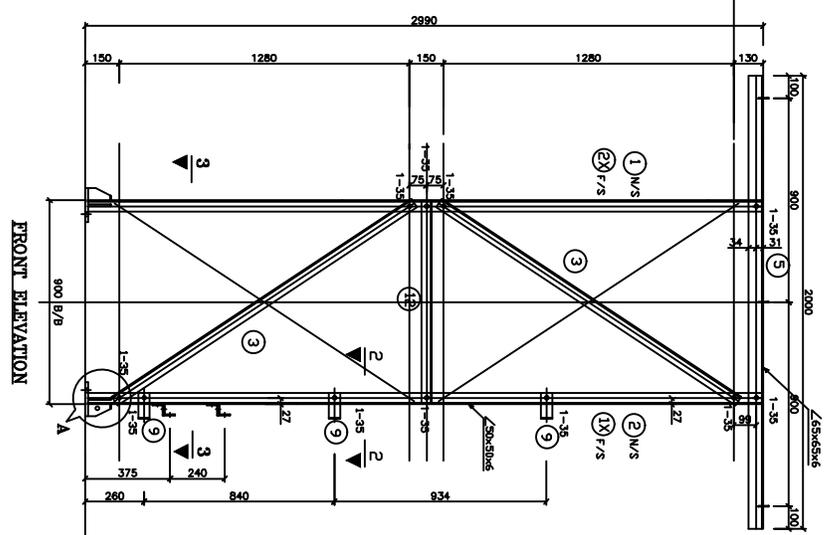
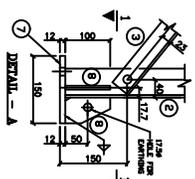
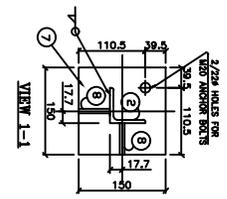
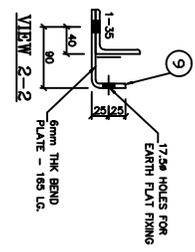
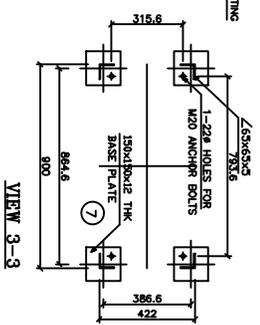
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: STRUCTURAL DETAILS OF 11KV PI

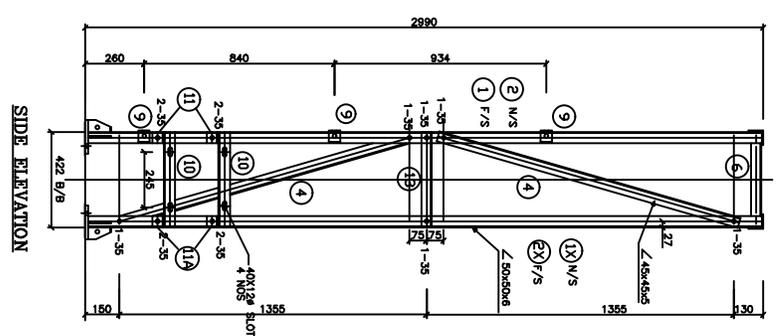
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /38/11KV PSS/01	1 OF 1	0



TOP PLAN
MOUNTING ARRANGEMENT PLAN FOR ISOLATOR



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	L 90 x 50 x 6	2972	1	4.5	53.50
2	L 45 x 45 x 5	1965	1	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. M.S BASE PLATE	100x97	8	62.8	2.86
8	6mm THK. M.S STIFFENER PLATE	165	3	47.1	23.31
9	6mm THK BND 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	65	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 =					187.87

HEX BOLT M16x35 LG.	0.124	47	5.83
HEX BOLT M18x40 LG.	-	-	-
SPRING WASHER	0.009	47	0.423
TOTAL WEIGHT OF BOLTS & NUTS =			6.25

WEIGHT OF STRUCTURAL STEEL : 187.87kg
WEIGHT OF BOLTS/NUTS : 6.25 kg
WEIGHT OF THE STRUCTURE : 174.58kg

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

- 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 GALVANIZED AFTER FABRICATION
 4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
 5. ALL L50x50x5 WILL HAVE 23mm BACK MARK.
 6. 35mm SPRING WASHERS TO BE USED UNDER EACH NUT.
 7. ALL STRUCTURAL MARK SHALL BE PREPARED TO IS 2092.
 8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS 2092.
 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 2018 & SPRING WASHER SHALL BE AS PER IS 2004.

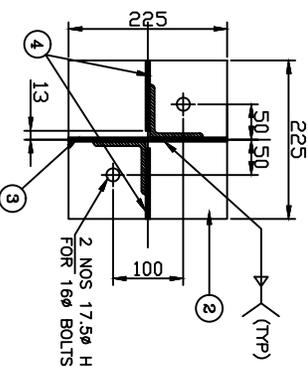
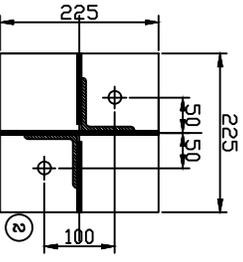
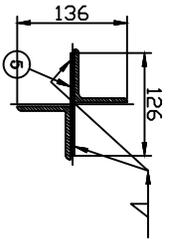
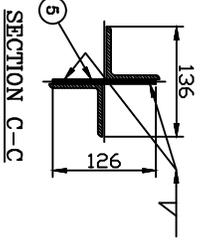
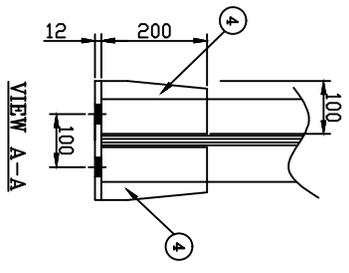
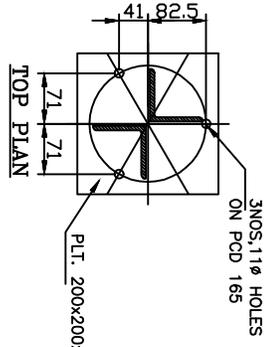
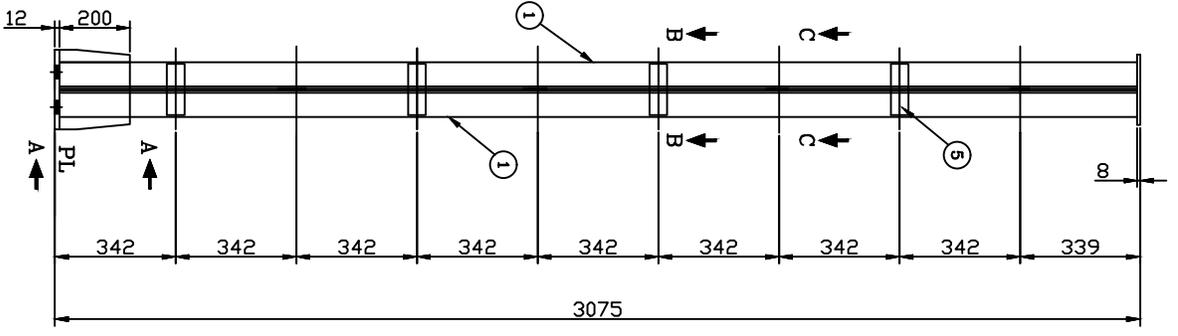
FOR TENDER PURPOSE ONLY

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



BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 65x6x6	2	3055	-	5.80	35.438
2	PL 12THK	1	225	225	94.2	4.769
3	PL 6THK	1	200	225	47.10	2.120
4	PL 6THK	2	100	200	47.10	1.884
5	PL 6THK	8	50	146	47.10	2.751
6	PL 8THK	1	200	200	62.80	2.512
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 17.5mmØ FOR 16mmØ 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/50sqm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L50x6x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x6x6 WILL HAVE 23mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREVIEWED WITH "1/A"
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. PLAN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

FOR TENDER PURPOSE ONLY

REC **भारत इंधन**
Rural Electrification Corporation Ltd.

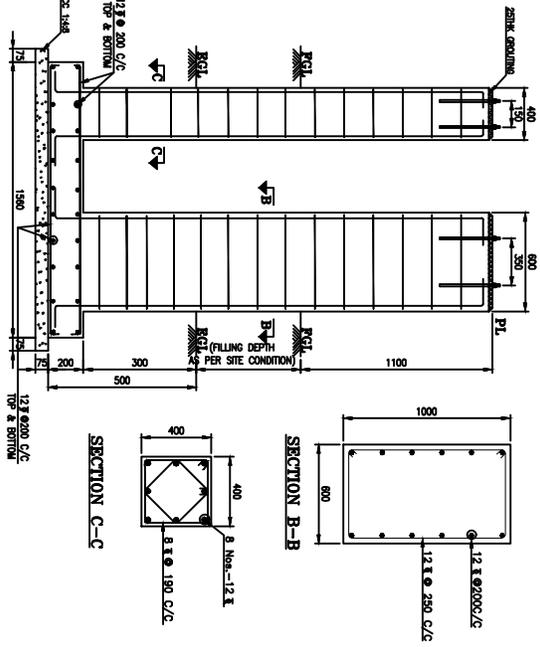
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE STRUCTURAL DETAILS OF 11KV LA

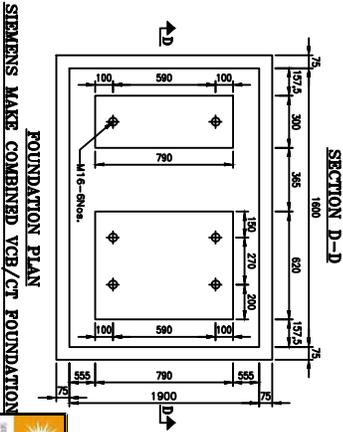
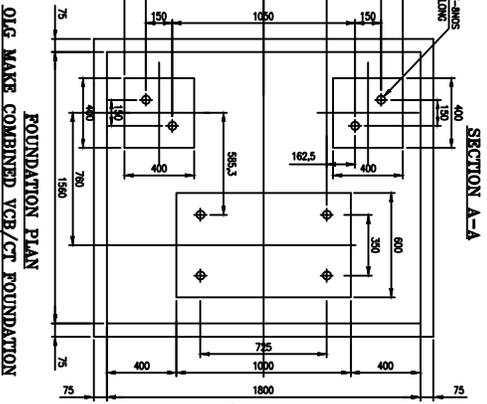
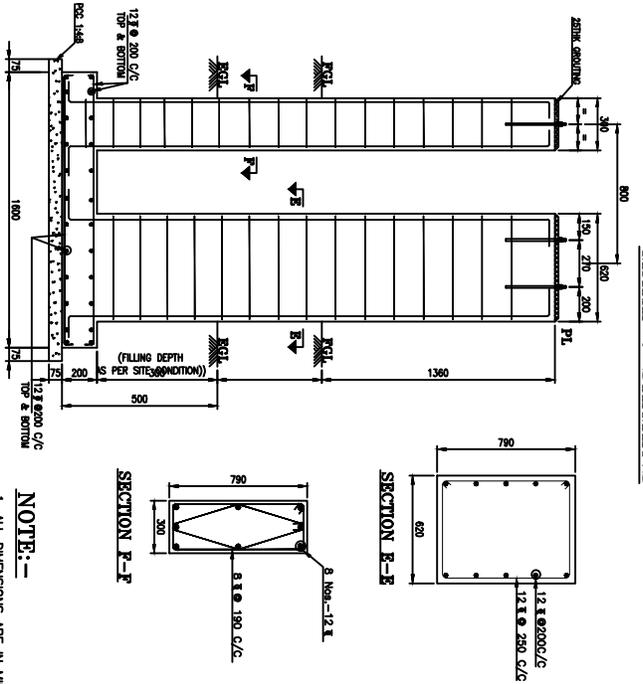
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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

MAKE : OLG



MAKE : SIEMENS



- 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
FOUNDATION PARTS - 50
PEDESTALS - 50
 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)671570-86205-F003, SIEMENS LTD. MAKE.

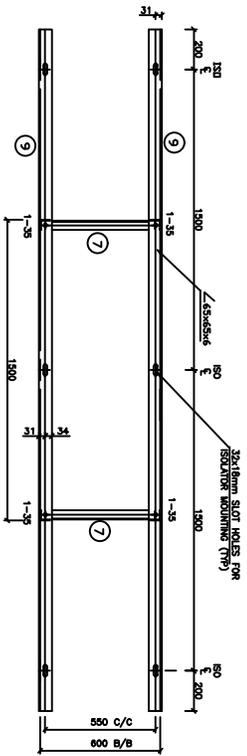
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

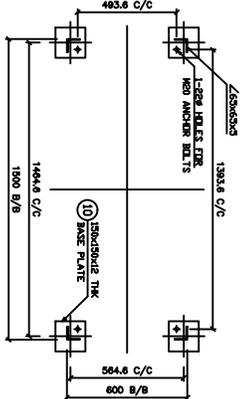
PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE FOUNDATION DETAILS OF 11KV VCB&CT

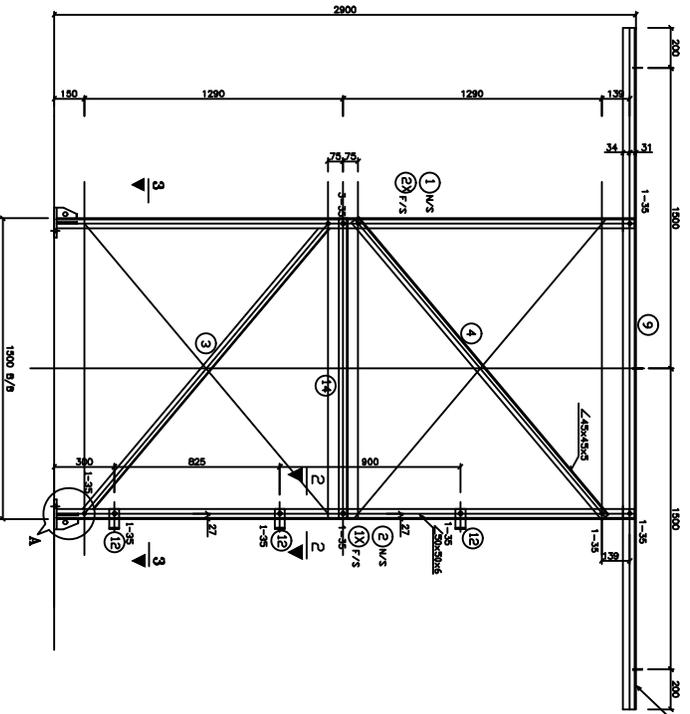
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11KV PSS/04	1 OF 1	0



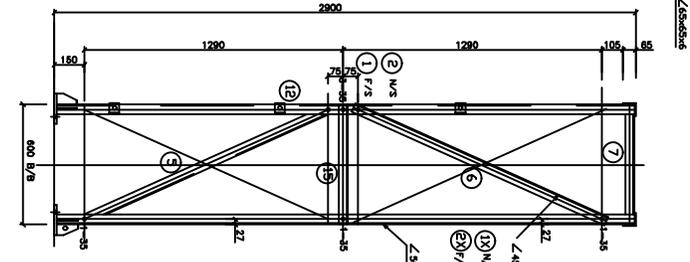
TOP PLAN



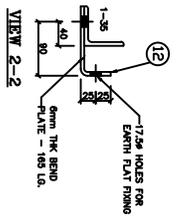
VIEW 3-3



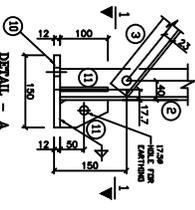
FRONT ELEVATION



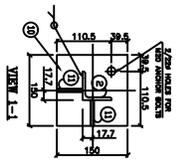
SIDE ELEVATION



VIEW 2-2



DETAIL - A



VIEW 1-1

ERECTOR MARKS	DESCRIPTION	LENGTH IN MM	QUANTITY	UNIT WT. IN KG	TOTAL WT. IN KG
1	L 50 x 50 x 6	2882	1	4.5	51.86
2	L 45 x 45 x 5	1830	2	3.4	13.19
3	L 45 x 45 x 5	1930	2	3.4	13.19
4	L 45 x 45 x 5	1382	2	3.4	9.40
5	L 45 x 45 x 5	1382	2	3.4	9.40
6	L 45 x 45 x 5	598	2	3.4	9.40
7	L 45 x 45 x 5	598	2	3.4	4.05
8	L 45 x 45 x 5	3400	2	5.4	39.44
9	12mm THK. M.S. BASE PLATE	1500x150	4	94.2	8.48
10	6mm THK. M.S. STIFFENER PLATE	1000x7	8	62.8	2.96
11	6mm THK. BRID PLATE	165	3	47.1	23.31
12	L 45 x 45 x 5	1498	2	3.4	10.17
13	L 45 x 45 x 5	598	2	3.4	4.05
14	L 45 x 45 x 5	598	2	3.4	4.05
15	L 45 x 45 x 5	598	2	3.4	4.05
TOTAL WEIGHT OF STRUCTURAL STEEL =					199.28

HEX BOLT M16x35 I.C.	HEX BOLT M16x40 I.C.	SPRING WASHER	TOTAL WEIGHT OF BOLTS & NUTS =
0.124	50	6.20	-
-	-	-	0.009
-	-	-	50
-	-	-	0.45
TOTAL WEIGHT OF BOLTS & NUTS = 6.65			

WEIGHT OF STRUCTURAL STEEL : 199.28 kg
 WEIGHT OF BOLTS/NUTS : 6.65 kg
 WEIGHT OF THE STRUCTURE : 205.93 kg

NOTE: PHOTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 17mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
3. FABRICATOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE MATERIALS USED
4. ALL FABRICATOR SHALL HAVE 23mm BACK MARK
5. ALL L60x60s WILL HAVE 23mm BACK MARK
6. 35mm SPRING WASHERS TO BE USED UNDER EACH NUT
7. ALL STRUCTURAL MARK SHALL BE PREFERRED WITH "S&P"
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS 2002
9. ALL DIMENSIONS SHALL BE TAKEN FROM THE CENTER OF THE MEMBER UNLESS OTHERWISE SPECIFIED
10. ALL DIMENSIONS SHALL BE TAKEN FROM THE CENTER OF THE MEMBER UNLESS OTHERWISE SPECIFIED
11. PLAN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

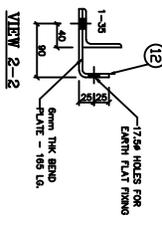
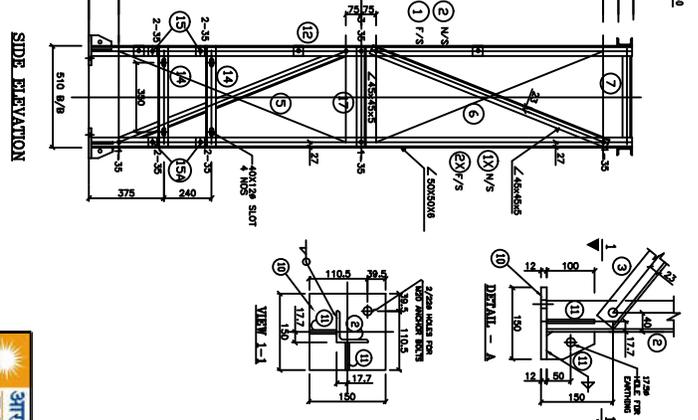
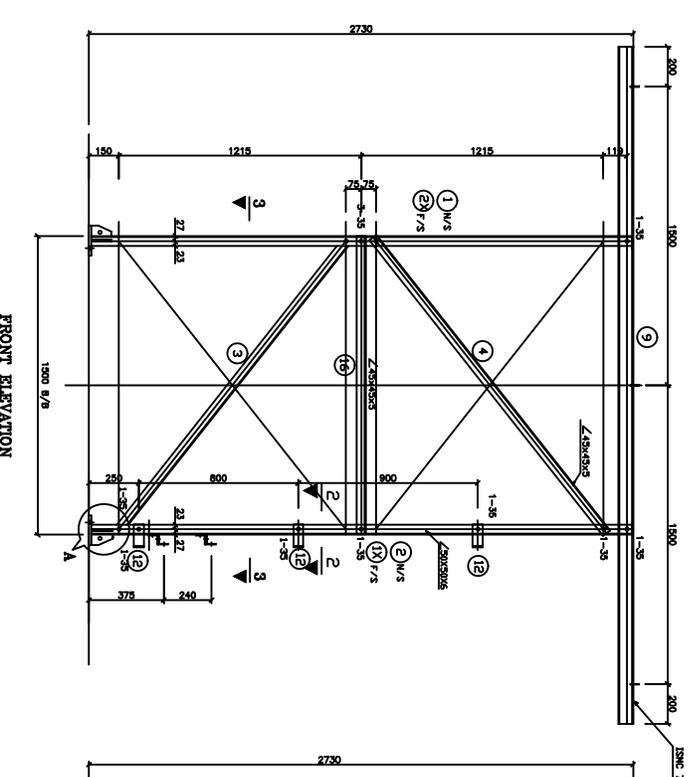
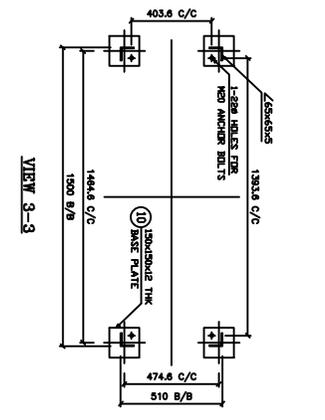
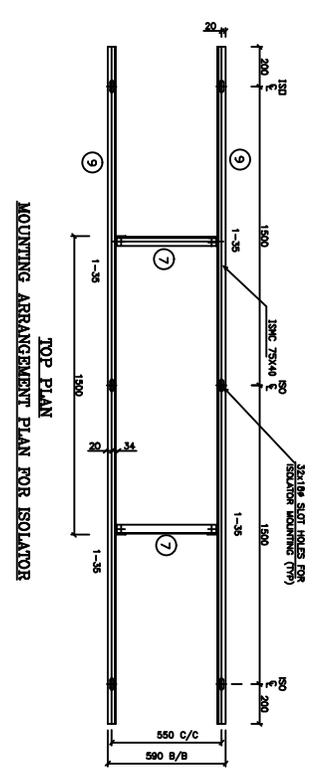
FOR TENDER PURPOSE ONLY

REC **आर ए टी**
 Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE
 STRUCTURAL DETAILS OF 33KV HG FUSE

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11KV PSS/05	1 OF 1	0



WEIGHT OF STRUCTURAL STEEL : 231.86 KG
 WEIGHT OF BOLTS/NUTS : 0.45 KG
 WEIGHT OF THE STRUCTURE : 230.41 KG

BILL OF MATERIAL						
SECTION MARKS	DESCRIPTION	LENGTH IN mm	QUANTITY IN Nos.	UNIT WT. IN Kg.	TOTAL WT. IN Kg.	
1	L 50 x 50 x 6	2716	1	4.5	48.92	
2	L 45 x 45 x 5	1880	2	3.4	12.85	
3	L 45 x 45 x 5	1880	2	3.4	12.85	
4	L 45 x 45 x 5	1278	2	3.4	8.69	
5	L 45 x 45 x 5	1278	2	3.4	8.69	
6	L 45 x 45 x 5	1278	2	3.4	8.69	
7	L 45 x 45 x 5	506	8	3.4	13.76	
8	L 45 x 45 x 5	629	2	3.4	5.83	
9A	L 45 x 45 x 5	791	2	3.4	5.38	
9	CHANNEL 75 x 40	3400	2	7.2	48.96	
10	12mm THK. M.S BASE PLATE	150x150	4	94.2	8.48	
11	6mm THK. M.S STIFFENER PLATE	100x57	8	62.8	2.86	
12	6mm THK. BRID PLATE	165	3	47.1	23.31	
13	L 45 x 45 x 5	987	4	3.4	13.01	
14	L 50 x 50 x 5	510	2	3.8	3.87	
15	L 50 x 50 x 5	65	4	3.8	0.988	
16	L 45 x 45 x 5	1486	2	3.4	10.17	
17	L 45 x 45 x 5	506	2	3.4	3.44	
TOTAL WEIGHT OF STRUCTURAL STEEL =					231.86	

SECTION MARKS	DESCRIPTION	QUANTITY	UNIT WT. IN Kg.	TOTAL WT. IN Kg.
	HEX BOLT M16x50 LG.	0.124	50	6.20
	HEX BOLT M16x40 LG.	-	-	-
	SPRING WASHER	0.009	50	0.45
TOTAL WEIGHT OF BOLTS & NUTS =				6.65

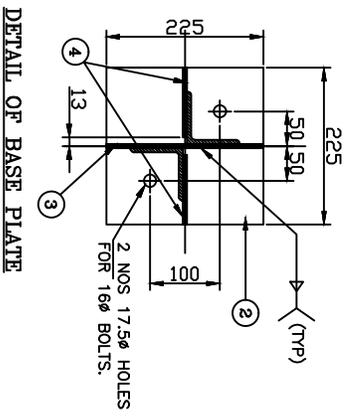
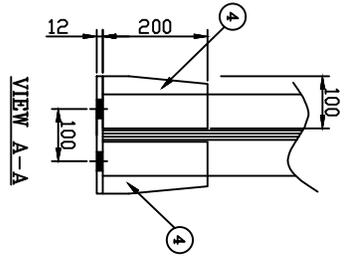
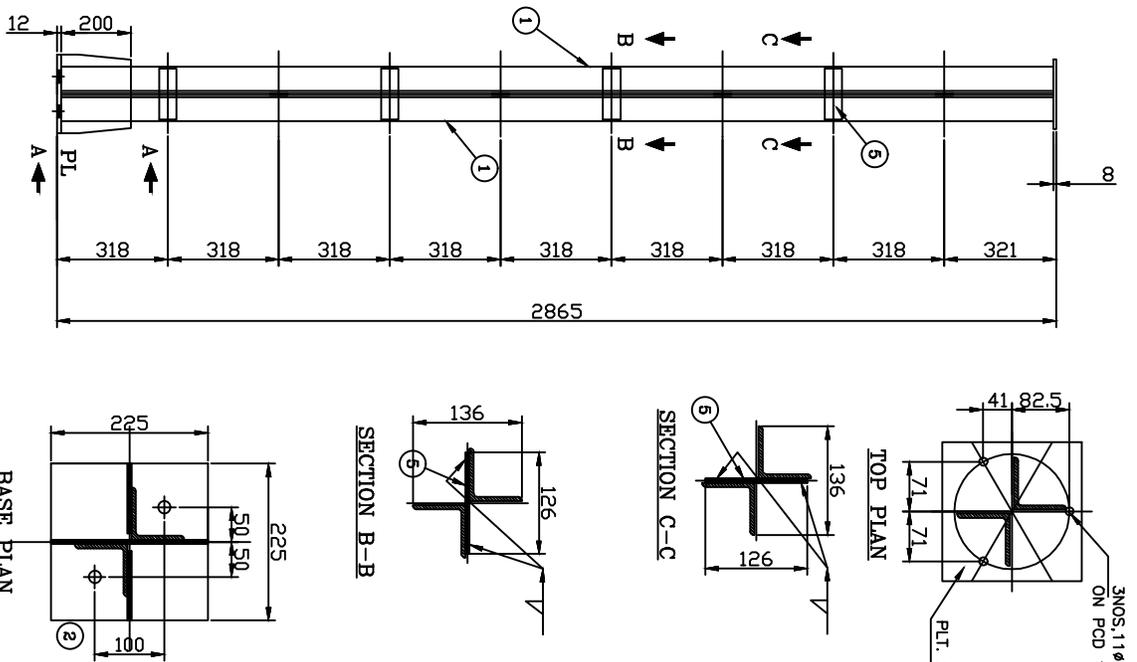
- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 2. ALL HOLES ARE 17.5mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE.
 3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANIZED AFTER FABRICATION AS PER IS: 4793 AND ZINC COATING SHALL NOT BE LESS THAN 77g/m² FOR STRUCTURAL STEEL MEMBERS.
 4. ALL L/SECTIONS WILL HAVE 25mm BACK MARK.
 5. ALL L/SECTIONS WILL HAVE 28mm BACK MARK.
 6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
 7. ALL EJECTION MARK SHALL BE PREPARED WITH "3507".
 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 PROPERLY CLASS 8.8 OF IS: 1507.
 11. SPRING WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 2006.

FOR TENDER PURPOSE ONLY

REC 3एनएलए
 Rural Electrification Corporation Ltd.
 Revamped Distribution Sector Scheme (RDSS)

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /7/33/11kV PSS/06	1 OF 1	0

TITLE: STRUCTURAL DETAILS OF 33kV ISOLATOR



BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 65x65x6	2	2845	-	5.80	33.002
2	PL 12THK	1	225	225	94.2	4.789
3	PL 6THK	1	200	225	47.10	2.120
4	PL 6THK	2	100	200	47.10	1.884
5	PL 6THK	8	50	146	47.10	2.751
6	PL 8THK	1	200	200	62.90	2.512
TOTAL WEIGHT OF STRUCTURE						47.04

WEIGHT OF THE STRUCTURE : 47.04 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 Ø 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/54cm 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 STRUCTURAL MARK SHALL BE PREHED WITH "3LA"
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 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

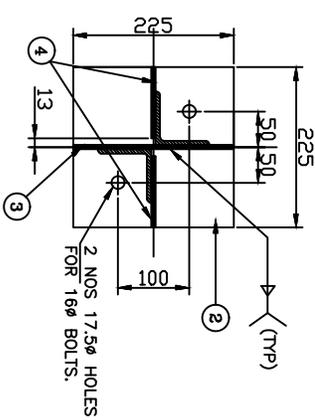
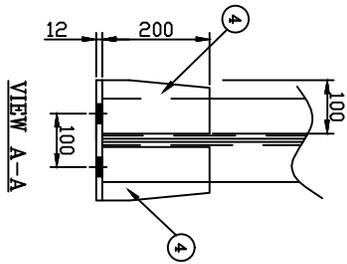
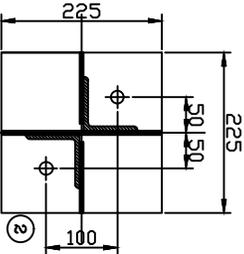
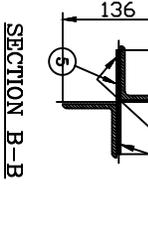
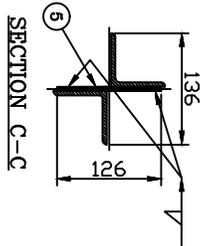
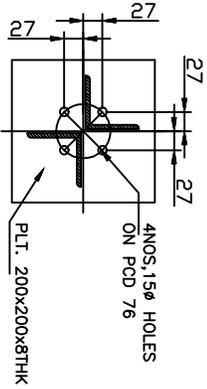
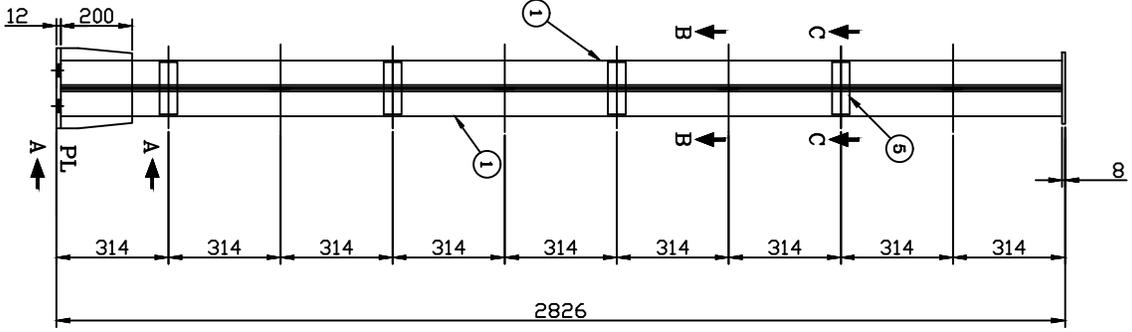
REC **रुरल इलक्रीफिकेशन कॉर्पोरेशन लिमिटेड**
Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE
 STRUCTURAL DETAILS OF 33KV LA

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	A3	SCALE	DRG. NO.	SHT. NO.	REV. NO.
		NTS	REC/ RDSS /33/11kV PSS/07	1 OF 1	0



BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 65x65x6	2	2806	-	5.80	32.550
2	PL 12THK	1	225	225	94.2	4.769
3	PL 6THK	1	200	225	47.10	2.120
4	PL 6THK	2	100	200	47.10	1.884
5	PL 6THK	8	50	146	47.10	2.751
6	PL 8THK	1	200	200	62.80	2.512
TOTAL WEIGHT OF STRUCTURE						46.58

WEIGHT OF THE STRUCTURE : 46.58 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 ϕ FOR 16mm ϕ 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 610g/m² FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L45x45x6 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 PREHEAT WITH "3P"
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 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

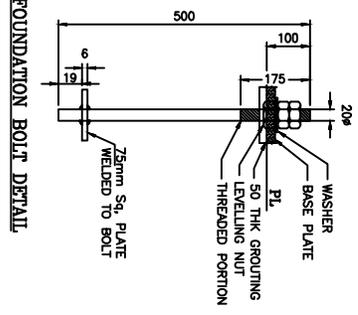
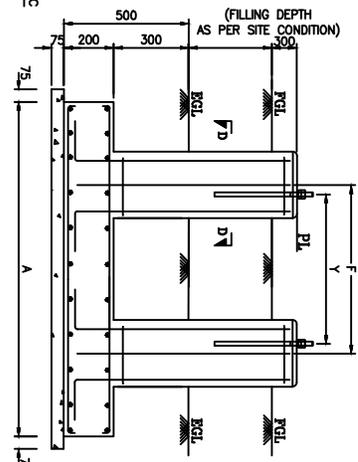
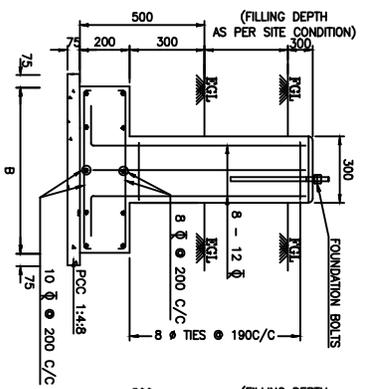
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: STRUCTURAL DETAILS OF 33kV PI

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	RBC/ RDSS /33/11kV PSS/08	1 OF 1	0

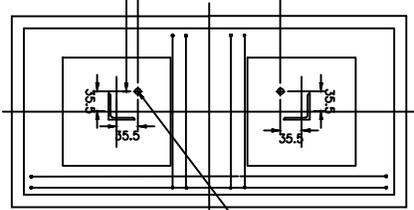
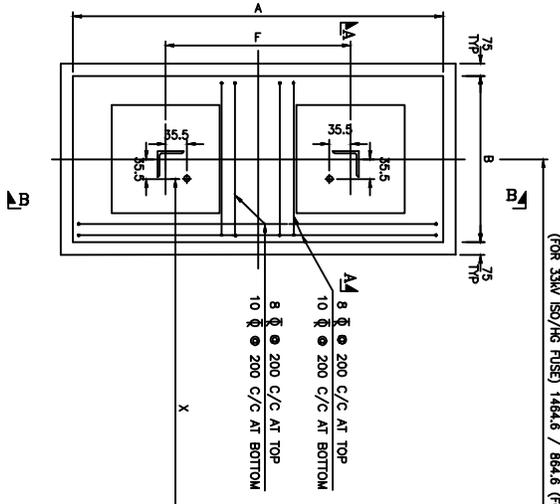


EQUIPMENT TYPE	FOUNDATION DIMENSIONS				
	A	B	F	X	Y
33KV ISO	1500	600	474.6	1393.6	403.6
33KV HGF	1300	800	564.6	1393.6	493.6
11KV ISO	1400	600	386.6	793.6	315.6

SECTION A-A

SECTION B-B

FOUNDATION BOLT DETAIL



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM, & ELEVATIONS ARE IN METRE UNLESS OTHERWISE MENTIONED.
 2. ALL STRUCTURAL CONC. SHALL BE 1:1.5:3 (1 CEMENT : 1.5 COARSE SAND: 3 GRADED STONE AGGREGATE OF 20MM NOMINAL SIZE)
 3. ALL LEAN CONC SHALL BE 75MM/THK AND OF GRADE 1:4:8 (1 CEMENT: 4 COARSE SAND : 8 GRADED STONE AGGREGATE OF 40 MM NOMINAL SIZE)
 4. ALL REINFORCEMENT STEEL BARS (DENOTED AS Ø) SHALL CONFORM TO IS: 1786-1985 OF GRADE Fe 415 OR TMT BARS OF EQUAL GRADE.
 5. UNLESS STATED OTHERWISE L/W/ANCHOR LENGTH SHALL BE 50 TIMES THE BAR DIA.
 6. CLEAR COVER TO MAIN REIN SHALL BE 50MM.
 7. FOR LOCATIONS OF EGT DMS BEER LAYOUTS OF RESPECTIVE SUBSTATIONS.
 8. ALL FOUNDATIONS SHALL REST MIN:500 MM BELOW VIRGIN SOIL.
 9. NET SEC. OF SOIL = 8 / 75MM.
 10. FOL. DENOTES FINISHED GROUND LEVEL.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

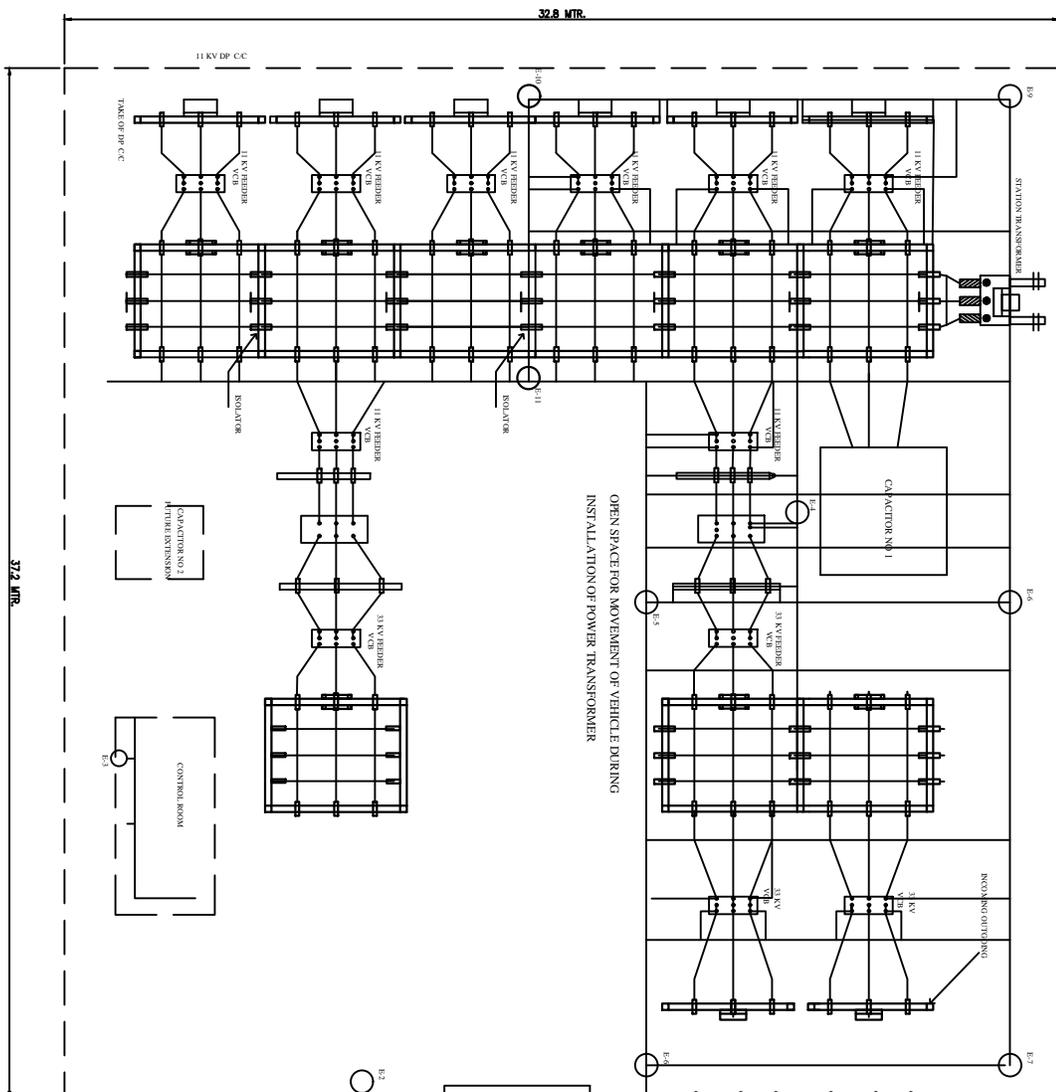
PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE FOUNDATION DETAILS OF 33KV ISO,HG FUSE AND 11KV ISO

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11KV PSS/10	1 OF 1	0

FOUNDATION PLAN

SECTION D-D



SUMMARY
 E-1, E-2 SINGLE PIPE EARTH PIT
 FOR FANGING & GATE
 E-3 TO E-5 FOUR PIPE EARTH PIT
 FOR CONTROL ROOM, NEUTRAL
 AND 33KV LA
 E-6 TO E-11 FOUR PIPE EARTH PIT FOR MESH

FOR TENDER PURPOSE ONLY

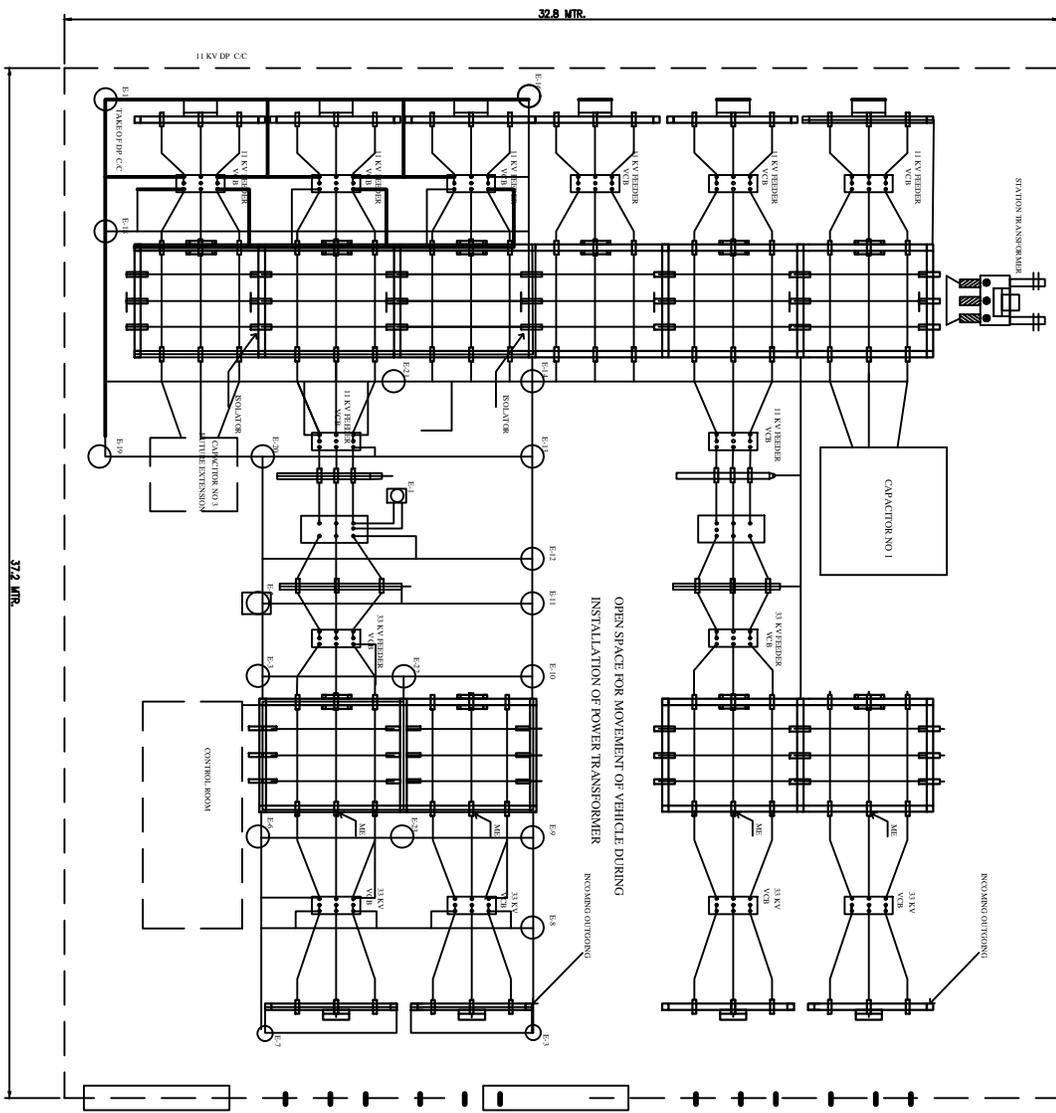
Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE:
 LAYOUT OF EARTHING IN NEW 33/11 KV S/S FOR MURRAM SOIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/RDSS/ 33/11KV PSS/11B	1 OF 1	0



OPEN SPACE FOR MOVEMENT OF VEHICLE DURING INSTALLATION OF POWER TRANSFORMER

SUMMARY
 E-1 TO E-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.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

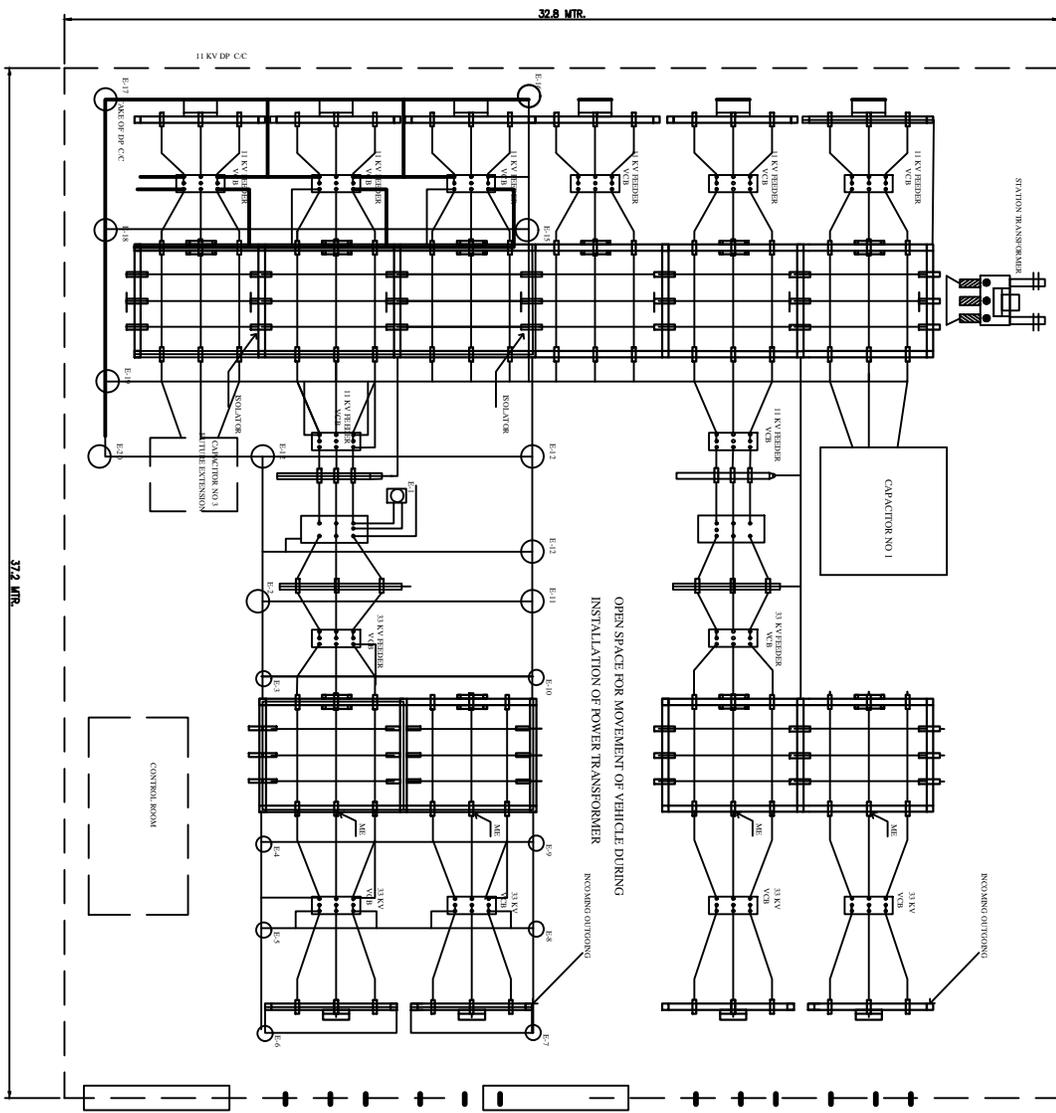
Revamped Distribution Sector Scheme (RDSS)

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

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

32.8 MTR. 37.2 MTR.



SUMMARY
 E-1, E-2 SINGLE PIPE EARTH PIT
 FOR FANGING & GATE
 E-3 TO E-8 FOUR PIPE EARTH PIT
 FOR MESH

FOR TENDER PURPOSE ONLY

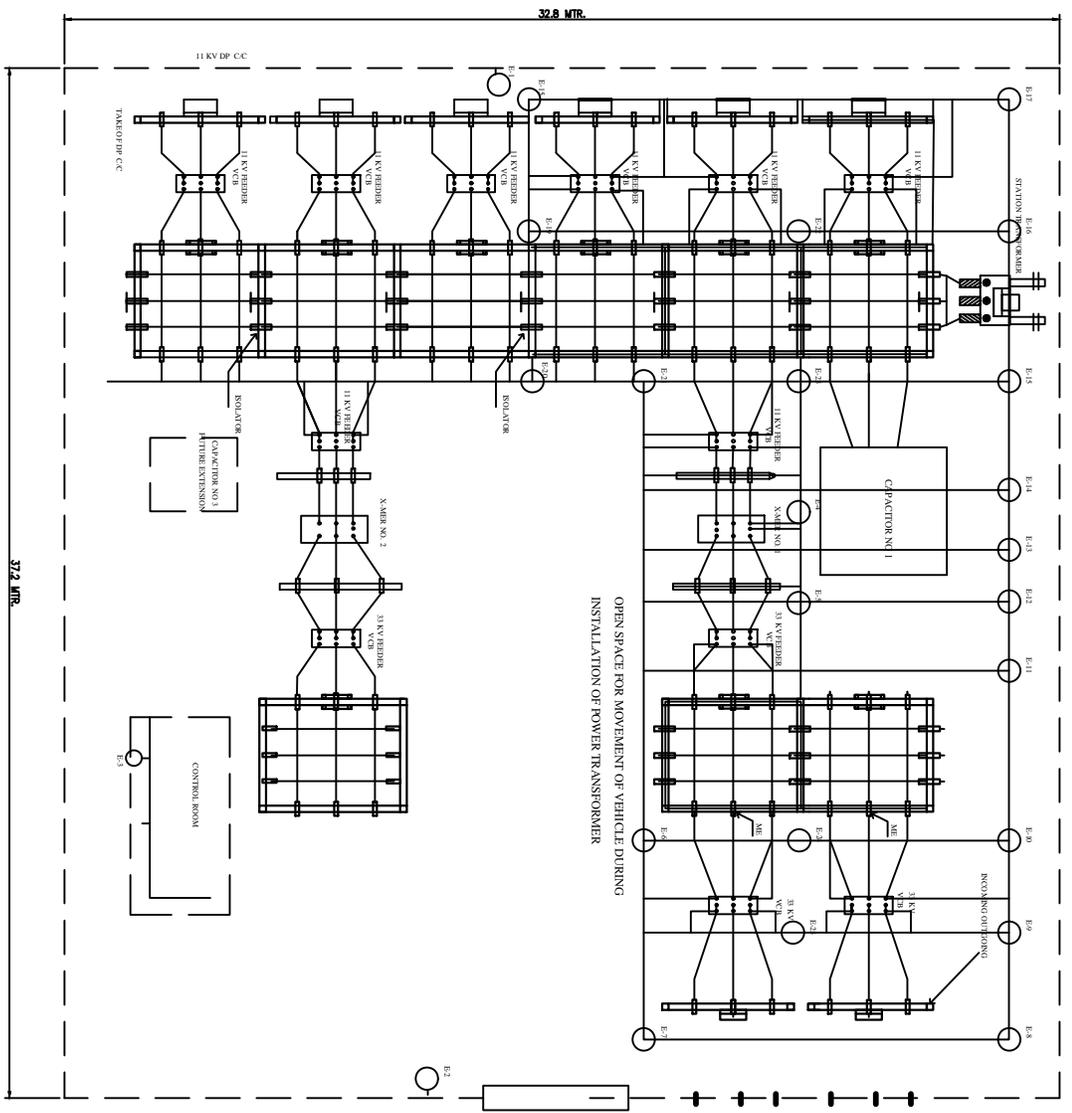
Rural Electrification Corporation Ltd.

Project: Revamped Distribution Sector Scheme (RDSS)

TITLE: LAYOUT OF EARTHING IN ADD. 33/11 kV S/S FOR BLACK COTTON SOIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/RDSS/ 33/11kV PSS/13A	1 OF 1	0



OPEN SPACE FOR MOVEMENT OF VEHICLE DURING
INSTALLATION OF POWER TRANSFORMER

SUMMARY
 E-1, E-2 SINGLE PIPE EARTH
 FOR FANCING & GATE
 E-3 TO E-5 FOUR PIPE EARTH PIT
 FOR CONTROL ROOM, NEUTRAL
 AND 33 KV LVA
 E-6 TO E-26 20 NOS. SPIKE EARTH

FOR TENDER PURPOSE ONLY

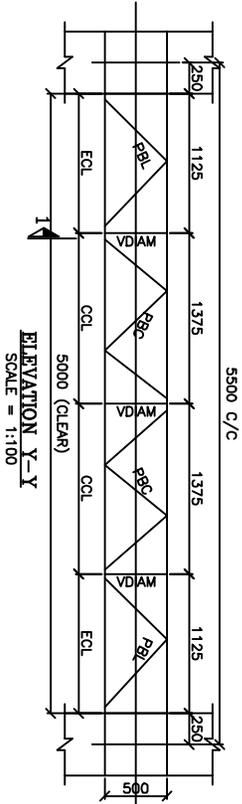
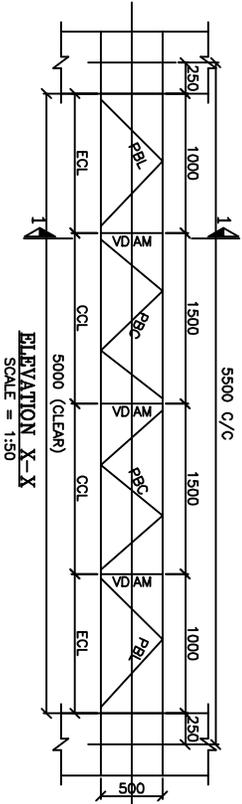
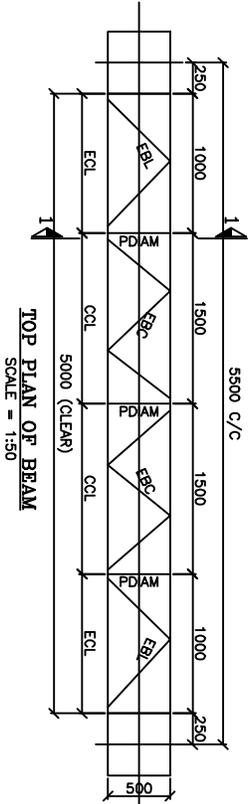
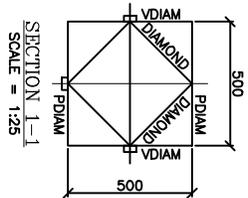
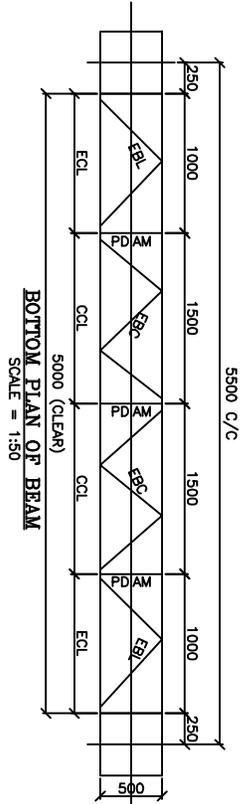
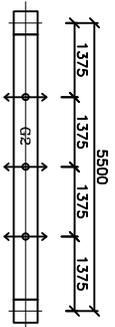
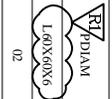
Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE:
 LAYOUT OF EARTHING IN NEW 33/11 KV S/S FOR BLACK COTTON SOIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	NTS	REC/RDSS/ 33/11KV PSS/13B	1 OF 1	0

BEAM MKD	ANGLE SIZE & NOS OF BOLTS	ECL	CCL	EBL	EBC	VDIAM	PBL	PBC	VDIAM	DIAMOND
G2	ANGLE SIZE	L60X60X6	L60X60X6	L45X45X5	L45X45X5	2L45X45X5 B/B	L45X45X5	L45X45X5	L45X45X5	L45X45X5
(33KV)	NOS OF BOLTS	2DS-6TH P/LT	2DS-6TH P/LT	02	02	02	02	02	02	02



NOTES:

- HIGHLIGHT:
 SPAN OF GIRDER=5.5M (C/C)
 SPAN OF GIRDER=5.10M (CLEAR)
 CROSS SECTION OF GIRDER=0.5MX0.5M

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM U.N.O.
2. ALL UN-SOITED MEMBER ARE ISA L45X45X5
3. ALL ANGLE SECTIONS USED ARE EQ'VAL ANGLES
4. ALL DIMENSIONS ARE CENTER LINE DIMENSIONS U.N.O.
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 0.61kg/m² FOR BOLTS & FOR STRUCTURAL MEMBERS.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

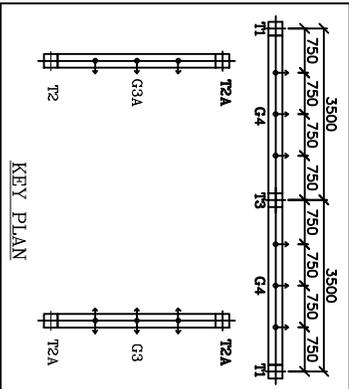
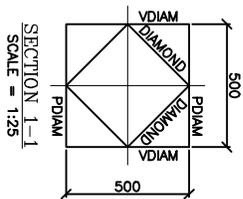
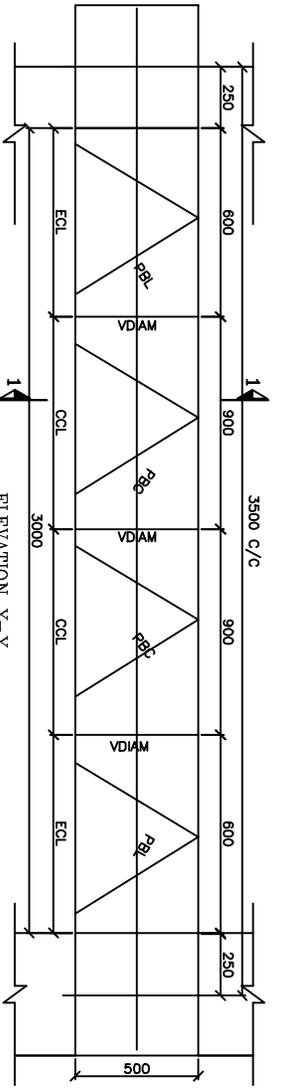
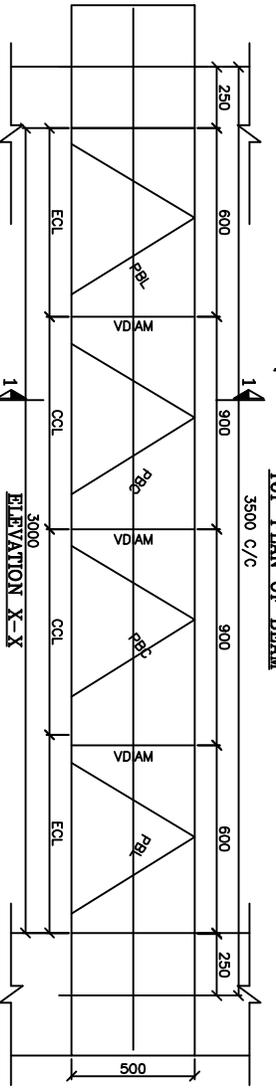
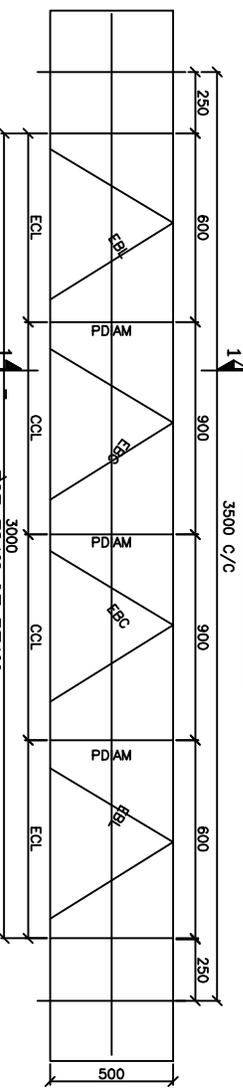
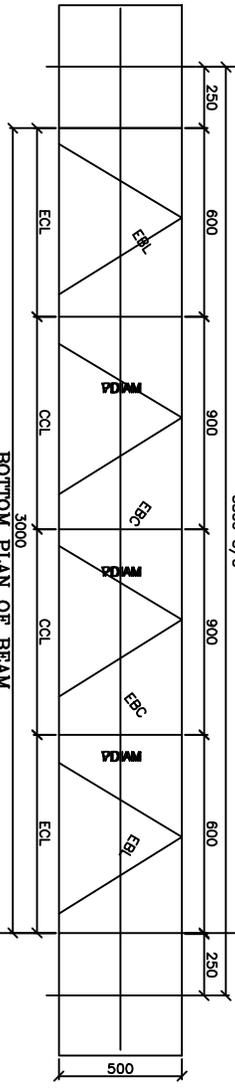
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 33KV 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/14A	1 OF 1	0

BEAM MKID	ANGLE SIZE & NOS OF BOLTS	FCL	CCL	ECL	EBL	ERC	VDIAM	PBL	PRC	PDIAM	DIAMOND
G2	ANGLE SIZE	L45X50X6	L50X50X6	L45X45X5	L45X45X5	L45X45X5	21.45X45X5 B/B	L45X45X5	L45X45X5	L50X50X6	L45X45X5
(34KV)	NOS OF BOLTS	2IS-6 TH. PLT	2IS-6 TH. PLT	02	02	02	02	02	02	02	02



- NOTES:**
- HIGHT:-
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

REC  **3एन ई टी**

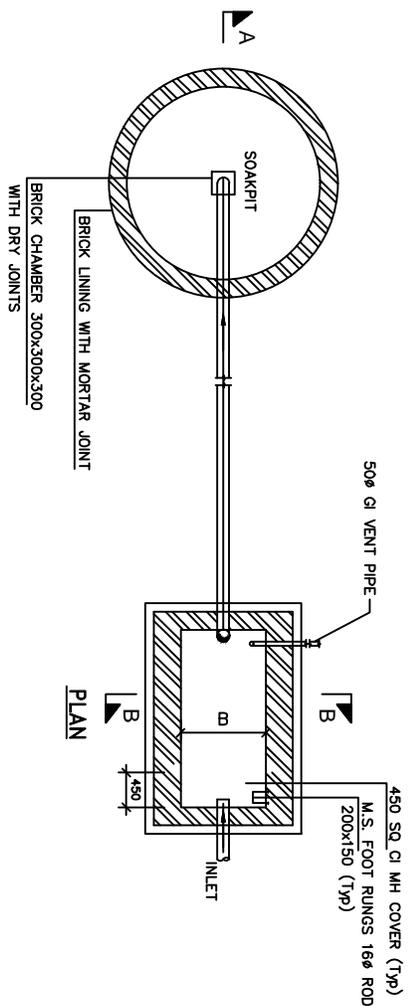
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV BEAM STRUCTURE

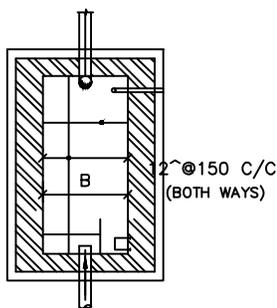
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



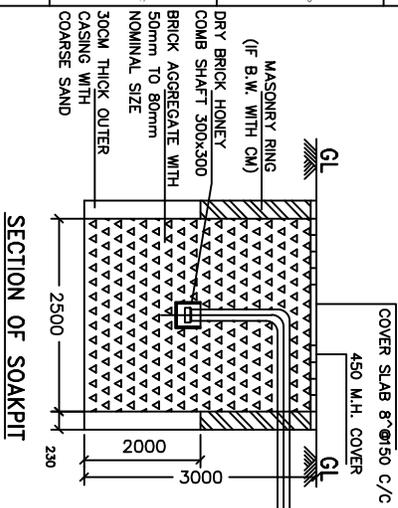
PLAN

TOP SLAB REINFORCEMENT PLAN

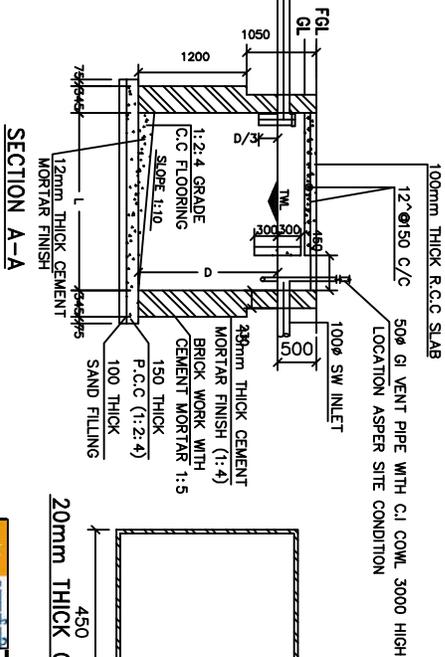


SCHEDULE OF SEPTIC TANK

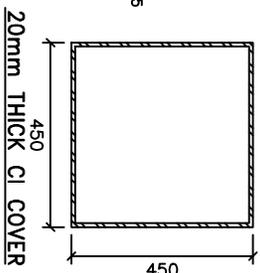
SL.NO.	L	B	D
1.	2300	1100	1800



SECTION OF SOAKPIT



SECTION A-A



20mm THICK CI COVER

FOR TENDER PURPOSE ONLY

- NOTES:**
1. ALL DIMENSIONS ARE IN MM. & ELEVATIONS ARE IN METRIC UNLESS OTHERWISE.
 2. ALL STRUCTURAL CONC. SHALL BE OF GRADE M-20 CONFORM TO IS 456-2000 U.N.O.
 3. ALL REINFORCEMENT FOR STEEL BARS (DENOTED AS ' ') UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 50 TIMES THE DIA OF BARS.
 4. CLEAR COVER TO MAIN REINF. SHALL BE 25MM FOR SLAB
 5. CLEAR COVER TO MAIN REINF. SHALL BE 12THK WITH CM 1:4
 6. PLASTERING INTERNAL SHALL BE 12THK WITH CM 1:4
 7. TOP OF THE SEPTIC TANK SHALL BE 150 ABOVE GR. LVL.

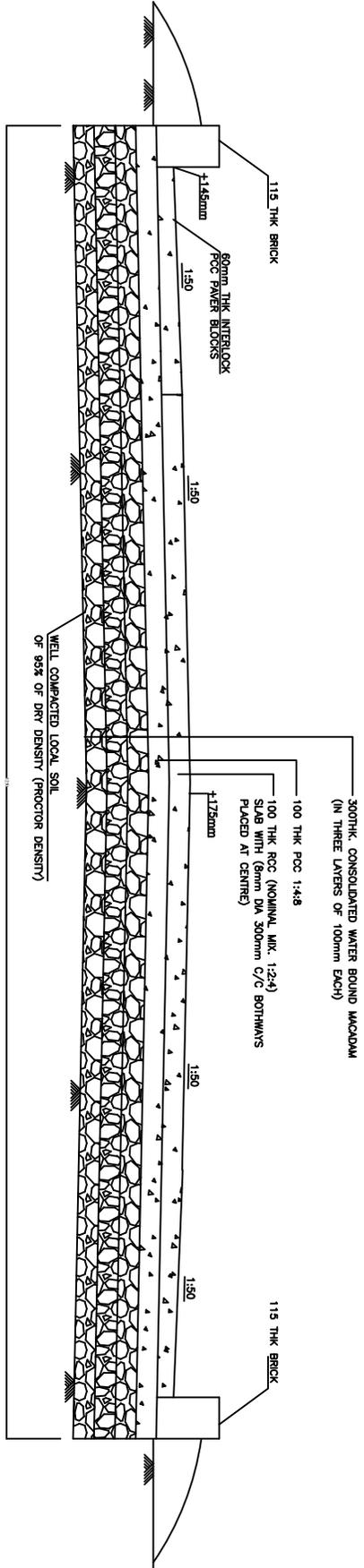


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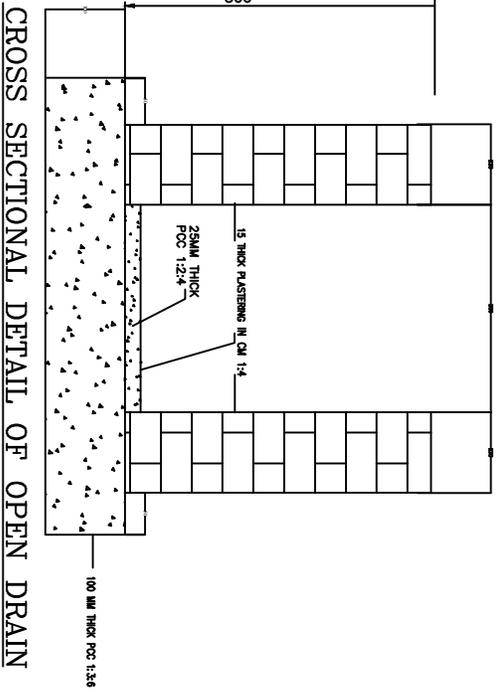
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: SEPTIC TANK & SOAK PIT DETAILS

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						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) ALONG THE ROAD. OR SUITABLY LOCATED BY ENGINEER INCHARGE.
 6. FINISHED TOP OF THE ROAD CREST SHALL BE 175mm ABOVE F.G.L
 7. THE REQUIRED LENGTH OF DRAIN SHALL BE AS PER SITE REQUIREMENT.
 8. LONGITUDINAL SLOPE SHALL BE PROVIDED 1:750

FOR TENDER PURPOSE ONLY

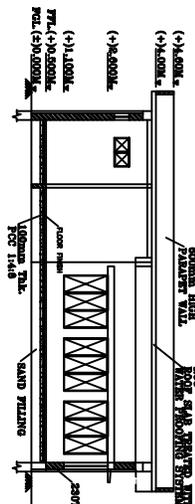
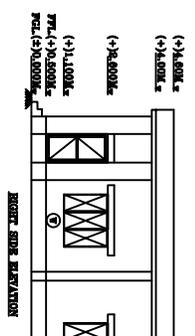
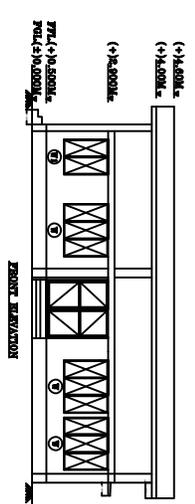
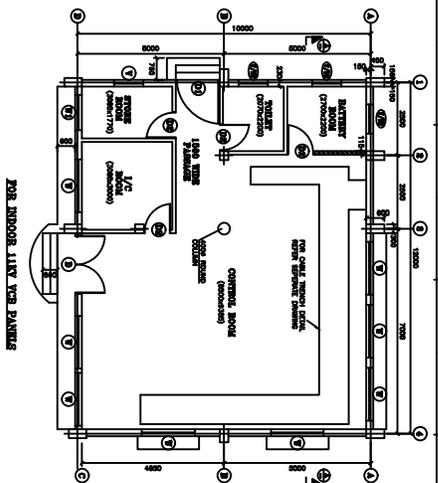
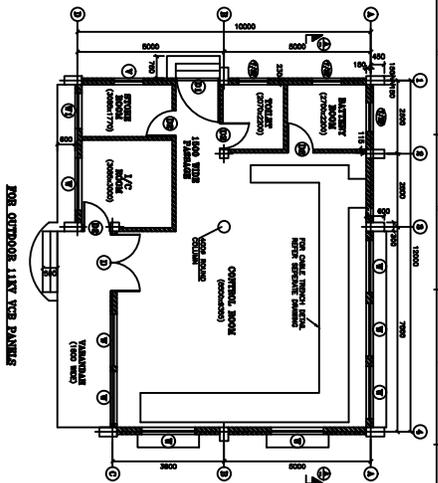


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DETAILS OF RCC ROAD AND DRAIN

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



FINISHING SCHEDULE DESCRIPTION

SL.NO	AREA DISCRPTION	FLOORING		SKIRTING (CEILING FINISH)		DADO		WALLS (INTERNAL)		CEILING		WALLS (EXTERNAL)		
		REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS		
1	CONTROL ROOM	• PRECAST TERRAZO TILES (DSR'02,ITEM No.11.29 A.2 & 11.31.2)	• CERAMIC GLAZED TILES (DSR'02-11.74)	• ACID & ALKALI RESISTANT TILES (DSR'02-11.36 C.1 & 11.36 C. 1.1)	• TERRAZO TILES (DSR'02-11.29 A.2 & 11.31.20)	• PRECAST TERRAZO TILES (DSR'02,ITEM No.11.29 A.2 & 11.31.2)	• TERRAZO TILES (DSR'02-11.29 A.2 & 11.31.20)	• ACID RESISTANT PAINT 1.2M HIGH & PAINT ABOVE 1.2M TO CEILING (DSR'02-11.36C.2.1,11.36C.2&13.96.1)	• CERAMIC GLAZED TILES (DSR'02-11.73)	• CEMENT PLASTER 15mm thk. CM 1:6	• OIL BOUND WASHABLE DISTEMPER ON SMOOTH SURFACE WITH 2mm THK. PLASTER OF PARIS PUTTY. (DSR'02-13.40 A & 13.77.2)	• OIL BOUND DISTEMPER (DSR'02-13.40 A & 13.77)	• WHITE WASH (DSR'02-13.70.1)	• ACID RESISTANT PAINT (DSR'02-11.36C.2.1,11.36C.2&13.96.1)
2	BATTERY ROOM	•	•	•	•	•	•	•	•	•	•	•	•	
3	INCHARGE ROOM	•	•	•	•	•	•	•	•	•	•	•	•	
4	STORE ROOM	•	•	•	•	•	•	•	•	•	•	•	•	
5	TOILET	•	•	•	•	•	•	•	•	•	•	•	•	

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.

SCHEDULE OF WINDOWS

Sl. No.	Window Size (mm)	Material	Remarks
1	1000 x 1000	ALUMINUM	ALUMINUM WINDOW
2	1000 x 1000	ALUMINUM	ALUMINUM WINDOW
3	1000 x 1000	ALUMINUM	ALUMINUM WINDOW

SCHEDULE OF DOORS

Sl. No.	Door Size (mm)	Material	Remarks
1	2000 x 2000	STEEL	STEEL DOOR
2	1000 x 2100	STEEL	STEEL DOOR
3	800 x 2100	STEEL	STEEL DOOR

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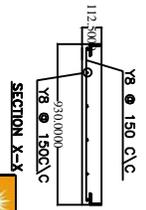
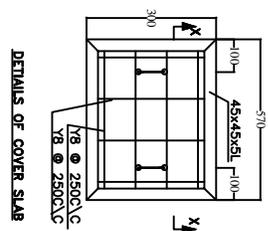
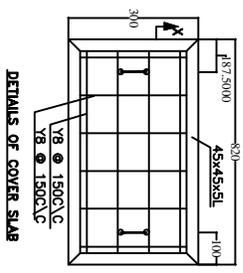
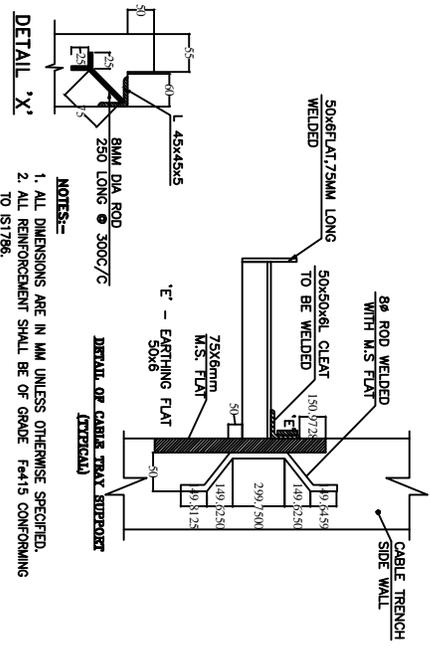
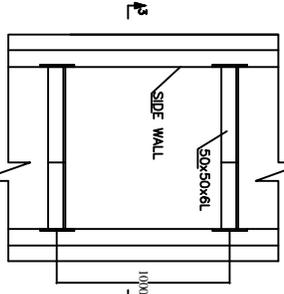
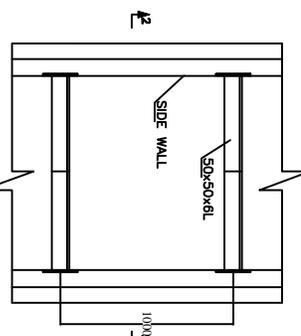
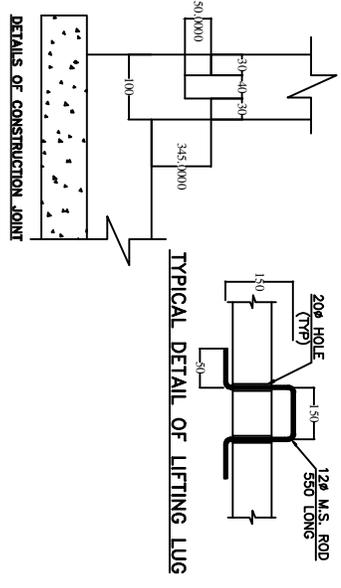
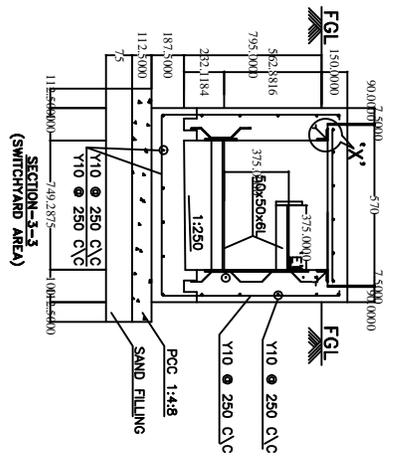
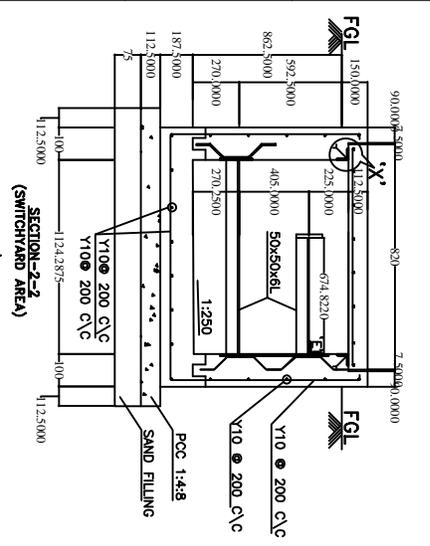


Rural Electrification Corporation Ltd.

 Project: Revamped Distribution Sector Scheme (RDSS)

G.A. OF CONTROL BUILDING

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



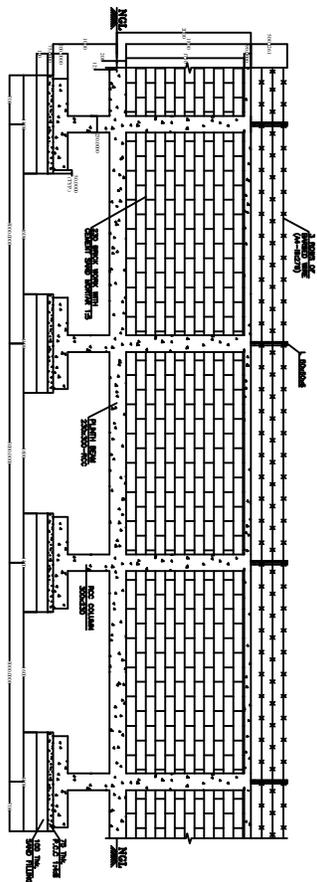
- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL REINFORCEMENT SHALL BE OF GRADE F415 CONFORMING TO IS1786.
 3. CONCRETE MIX SHALL BE M20
 4. CLEAR COVER FOR REINFORCEMENT
SIDE WALL = 50mm
BOTTOM SLAB ON EARTH FACE = 50mm
LAP/DEVELOPMENT LENGTH SHALL BE 40 TIMES THE DIA. OF MAIN REINFORCEMENT.

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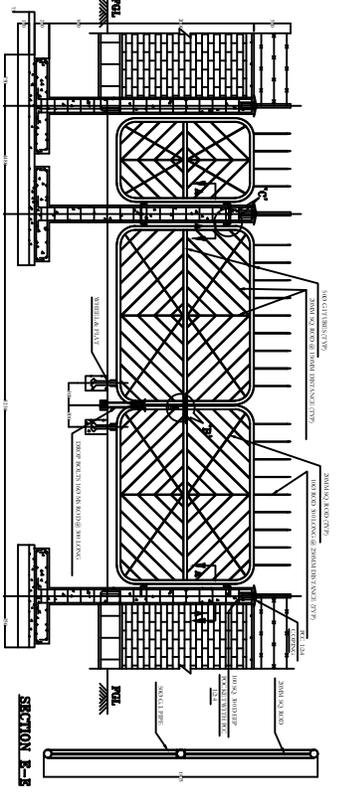
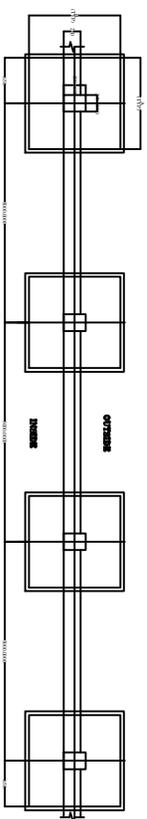
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)
TITLE: DETAILS OF CABLE TRENCHES (SWITCHYARD AREA)

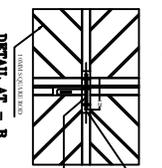
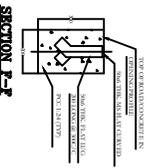
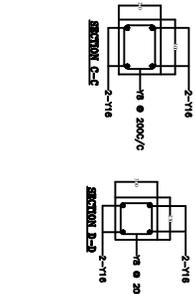
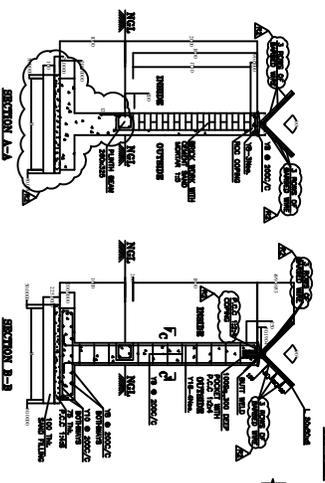
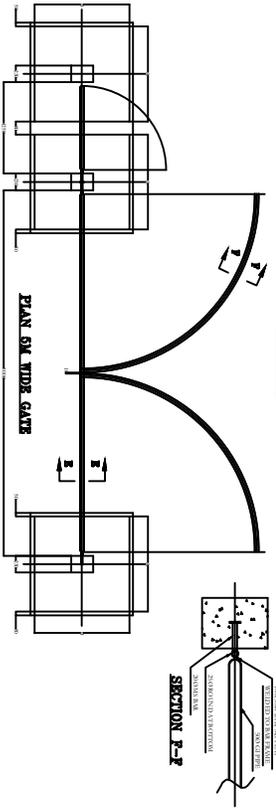
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/33/11kV PSS/19B	1 OF 1	0



SECTION A-A



SECTION B-B



- NOTES:-**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
 2. REINFORCEMENT SHALL BE AS PER IS.
 3. REINFORCEMENT STEEL SHALL BE HRSD BAR AS PER IS.
 4. CLEAR COVER
 5. 1) FOR COLUMN - 40mm
 6. 2) FOR PILEH B - 25mm
 7. 3) FOR FOUNDATION - 50mm
 8. 4) FOR WALL - 25mm
 9. 5. REINFORCEMENT SHALL BE PROVIDED 1.5% FOR MASONRY WORK WITH CENTRE WORKING 1:6
 6. PLASTERING SHALL BE 12mm THK. INSIDE & 18mm THK. OUTSIDE
 7. EXPANSION JOINT SHALL BE PROVIDED AT EVERY 15M.
 8. WALL SHALL BE PAINTED WITH MINIMUM TWO COATS OF COLOUR WASH OVER A BASE COAT OF WHITE WASH WITH LIME.
 9. THE STEEL WORK SHALL BE GIVEN TWO COATS OF SYNTHETIC EMERALD PAINT
 10. OF APPROVED MAKE OVER ONE COAT OF PRIMER.
 11. THE GATE FRAME SHALL BE MADE OF MEDIUM DUTY M.S. PIPE CONFORMING TO IS: 1161 WITH WELDED JOINTS.
 12. ALL WELDED JOINTS SHALL BE CONFORMING TO IS813.

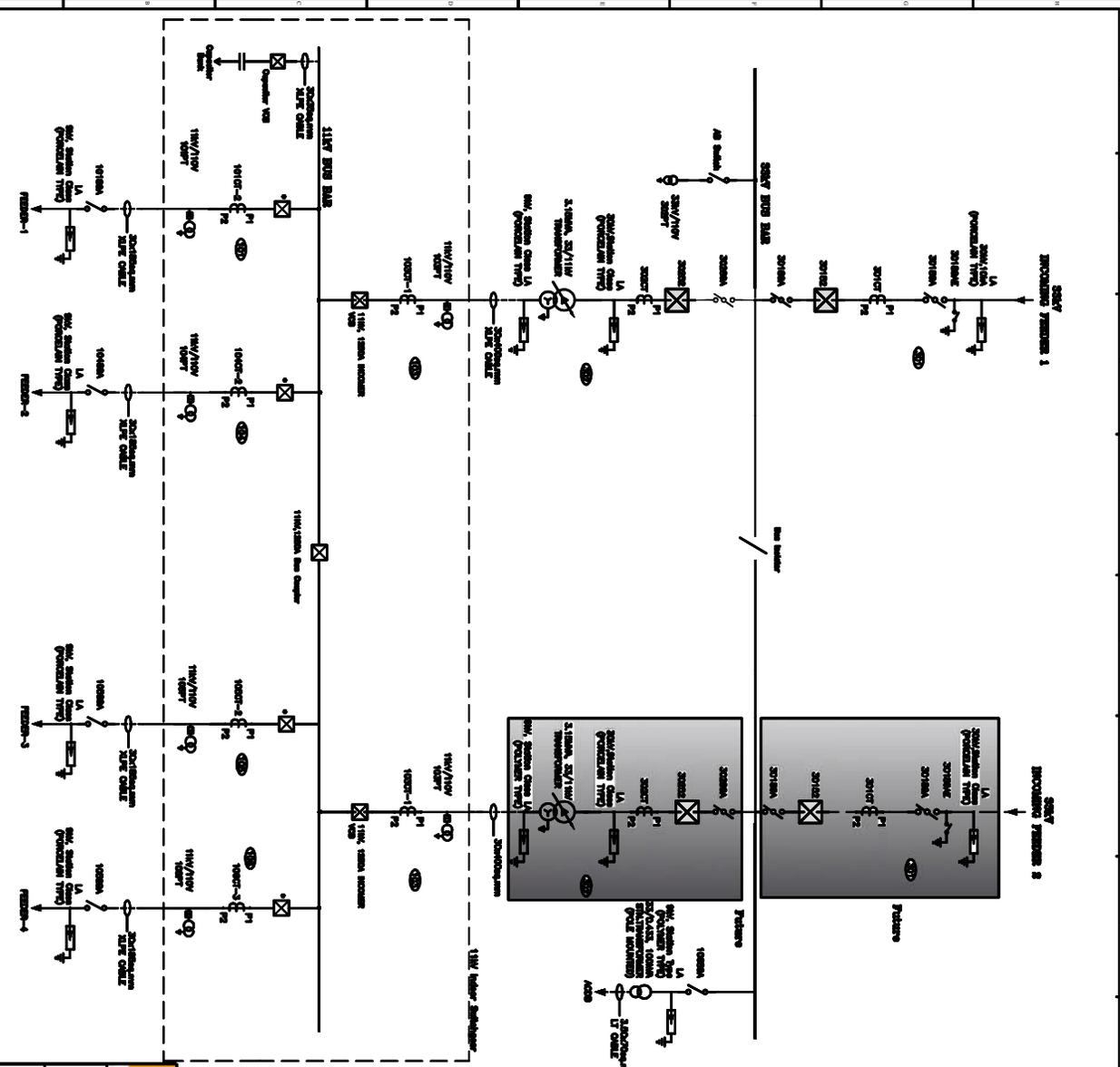
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

DETAIL OF BOUNDARY WALL FOR SWITCHYARD WITH ENTRRANCE GATE

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



BILL OF QUANTITY - 11kV

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1.	11kV, 15MVA TRANSFORMER		1 EA.
2.	250kV, 15MVA, O/D VOLTAGE CIRCUIT BREAKER		2 SETS.
3.	250kV, 15MVA, O/D WITH EARTH SWITCH		1 SET.
4.	250kV, 15MVA, O/D WITH EARTH SWITCH		2 SETS.
5.	250kV, 15MVA, O/D WITH EARTH SWITCH		0 NOS.
6.	250kV/15MVA POTENTIAL TRANSFORMER		3 NOS.
7.	250kV/15MVA POTENTIAL TRANSFORMER		2 SETS.
8.	250kV/15MVA POTENTIAL TRANSFORMER		1 EA.

BILL OF QUANTITY - 11kV

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1.	11kV, 15MVA INDOOR VCB & Bus Coupler		2 SETS.
2.	11kV, 15MVA INDOOR VCB		4 SETS.
3.	11kV, 15MVA INDOOR VCB		4 SETS.
4.	11kV, 15MVA INDOOR VCB		4 SETS.
5.	11kV/15MVA POTENTIAL TRANSFORMER		15 NOS.
6.	CAPACITOR BANK VCB		1 SETS.

LEGEND:-

- 11kV, 15MVA INDOOR VCB
- OF-1 200-150/0-5A
- OF-2 200-150/0-5A
- OF-3 100-50/0-5A

This BQ is Subordinate. PTA/PT/AVR may not be adopted & etc. as per the requirements.



Rural Electrification Corporation Ltd.

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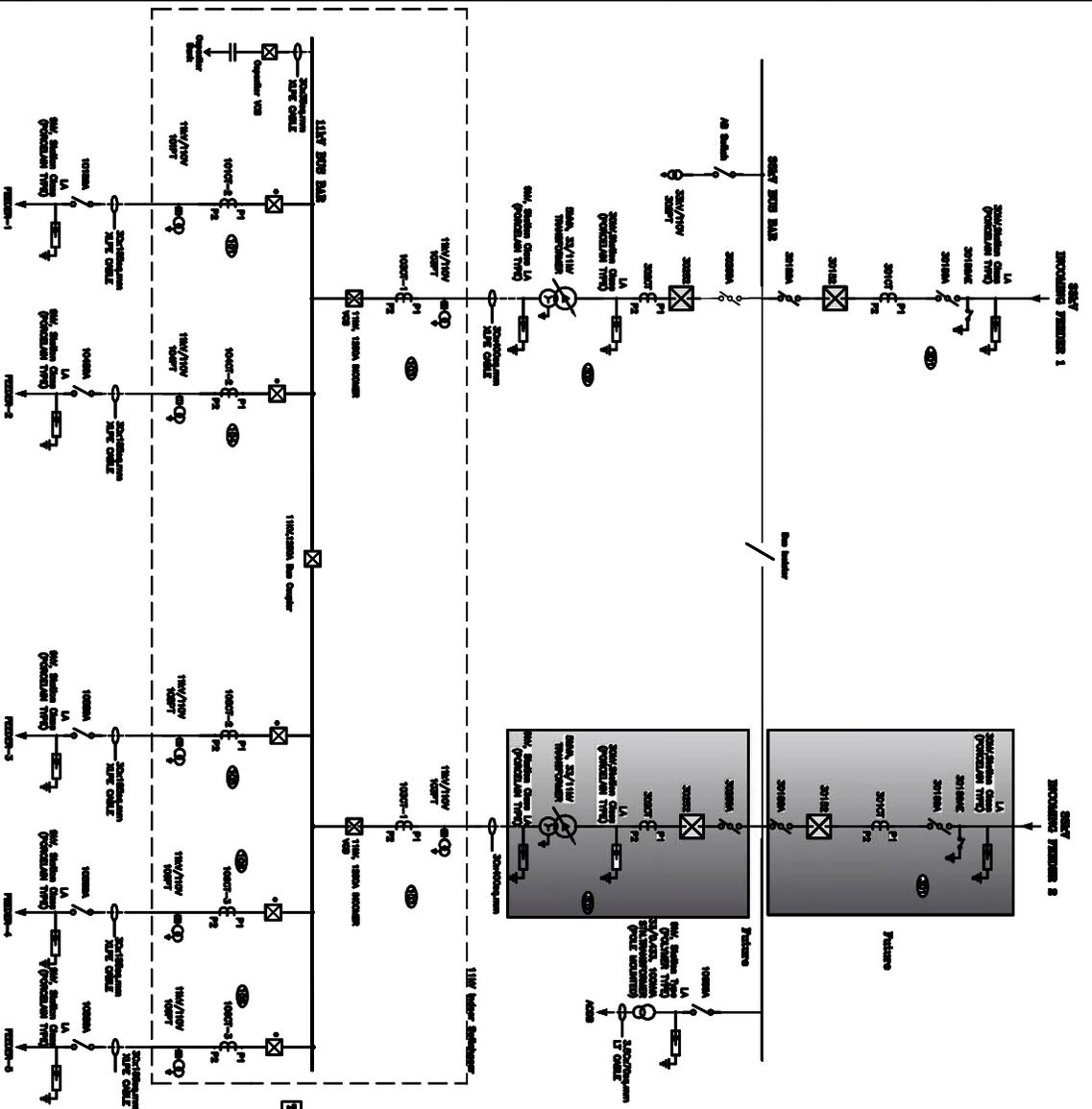
Revamped Distribution Sector Scheme (RDSS)

Single Line Diagram of 1x3, 15MVA (Type-A)

33/11kV Substation with Indoor 11kV Switchgear

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/22A	1 OF 1	0



BILL OF QUANTITY - SSKY

Sl. No.	ITEM DESCRIPTION	QTY	UNIT
1.	SSKY, 20/11kV TRANSFORMER	2	NO.
2.	SSKY, 100kV, O/D VOLTAGE CIRCUIT BREAKER	2	SETS
3(a)	SSKY, 100kV, 100kV/11kV SWITCH	1	SET
3(b)	SSKY, 100kV, 100kV/11kV SWITCH	3	SETS
4.	GT RATED 200-100/1A	6	NO.
5.	SSKY/11kV POTENTIAL TRANSFORMER	6	SETS
6.	SSKY, 100kV/11kV POTENTIAL TRANSFORMER	2	SETS
7.	SSKY/11kV POTENTIAL TRANSFORMER	1	NO.

BILL OF QUANTITY - 11kV

Sl. No.	ITEM DESCRIPTION	QTY	UNIT
1(a)	11kV, 110kV/11kV TRANSFORMER	1	NO.
1(b)	11kV, 110kV/11kV TRANSFORMER	1	NO.
2.	11kV, 110kV/11kV TRANSFORMER	1	NO.
3.	11kV, 110kV/11kV TRANSFORMER	1	NO.
4.	11kV/10kV POTENTIAL TRANSFORMER	1	NO.
5.	OPERATOR BANK VOB	1	NO.

LEGEND:-

- 11kV, 110kV OUTDOOR VOB
- GT-1 200-100/1A
- GT-2 200-100/1A
- GT-3 100-00/1A

Refer to Substation T&E/Protection study available along & etc. as per the requirement

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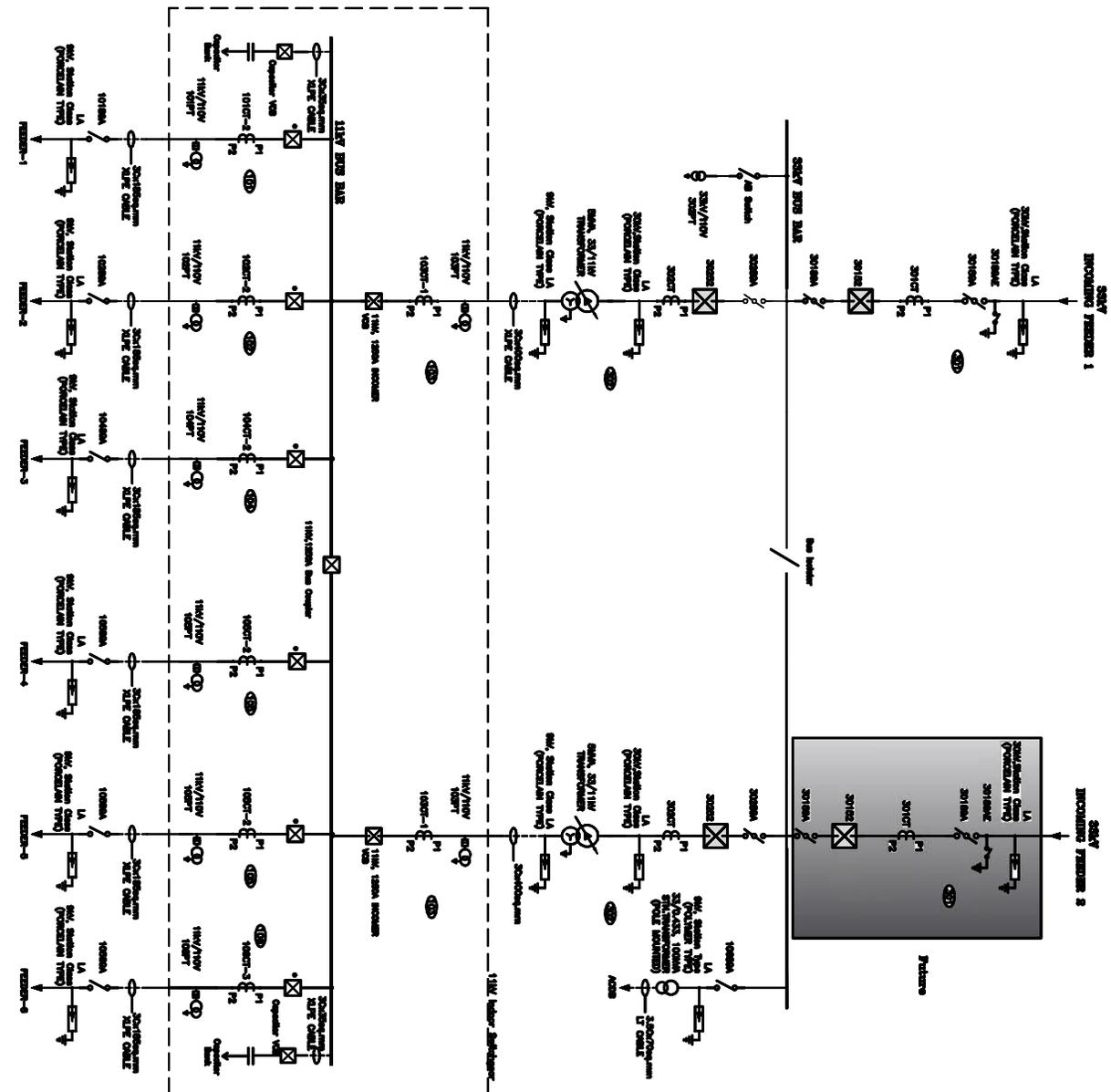
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

Single Line Diagram of 1x5MVA (Type-B)
33/11kV Substation with Indoor 11kV Switchgear

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/22B	1 OF 1	0



BILL OF QUANTITY - 33KV

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1.	2x5MVA TRANSFORMER		2 Nos.
2.	33KV, 11KV, O/D VOLTAGE CIRCUIT BREAKER		3 Nos.
3.	33KV, 11KV, 11KV/11KV VOLTAGE CIRCUIT BREAKER		1 Nos.
4.	33KV, 11KV, 11KV/11KV VOLTAGE CIRCUIT BREAKER		4 Nos.
5.	11KV/11KV POTENTIAL TRANSFORMER		3 Nos.
6.	33KV, 11KV, 11KV/11KV POTENTIAL TRANSFORMER		4 Nos.
7.	33KV/11KV, 11KV/11KV, 11KV/11KV TRANSFORMER		1 No.

BILL OF QUANTITY - 11KV

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1.	11KV, 11KV, 11KV/11KV TRANSFORMER		3 Nos.
2.	11KV, 11KV, 11KV/11KV TRANSFORMER		8 Nos.
3.	11KV, 11KV, 11KV/11KV TRANSFORMER		8 Nos.
4.	11KV/11KV POTENTIAL TRANSFORMER		34 Nos.
5.	CAPACITOR BANK 11KV		2 Nos.

LEGEND:-

- 11KV, 11KV OUTDOOR VCB
- CR-1-200-100/8-4A
- CR-2-200-100/8-4A
- CR-3-100-80/8-4A

This Bill is Subordinate. PPA/Technical may available along with this, as per the requirements.

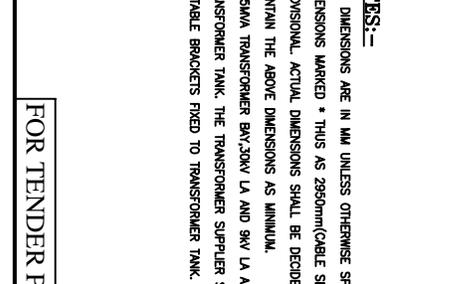
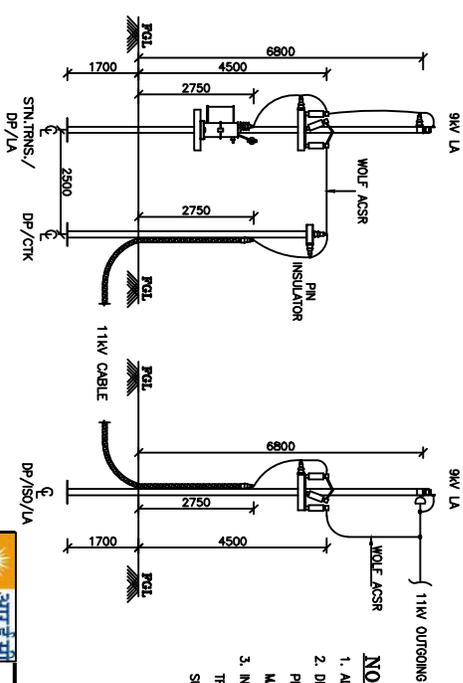
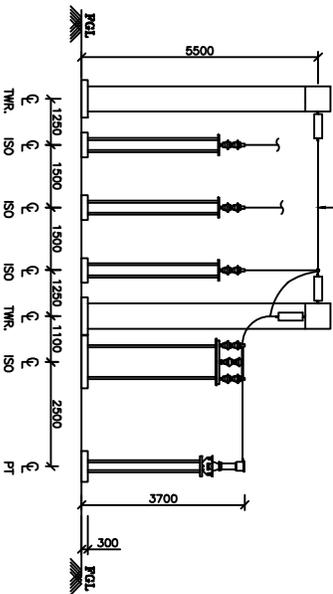
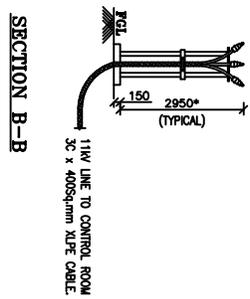
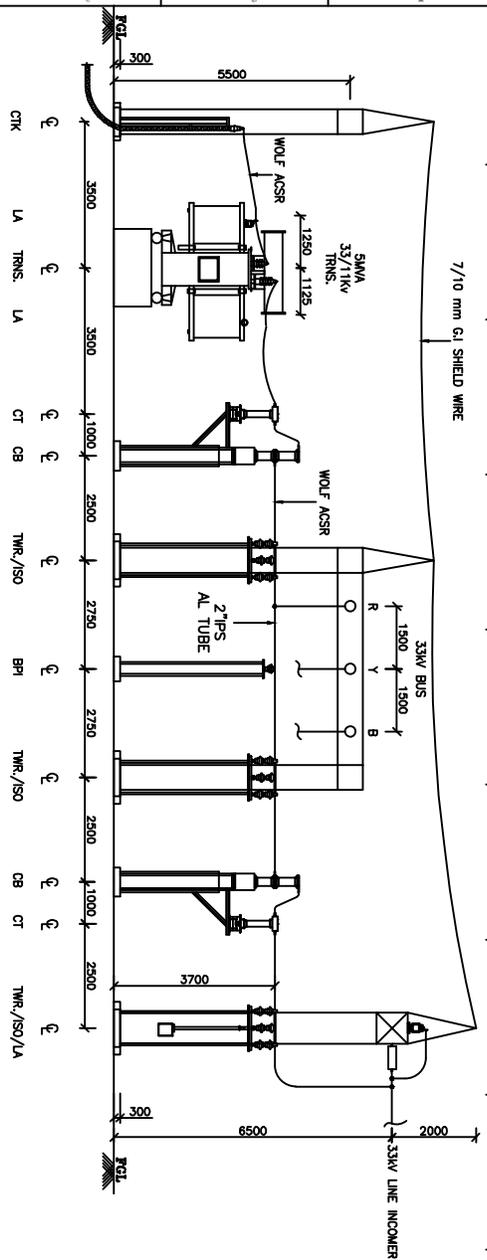
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revised Distribution Sector Scheme (RDSS)
 Single Line Diagram of 2x5MVA (Type-C)
 33/11KV Substation with Indoor 11KV Switchgear

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE
R0						A3

SCALE	DRG. NO.	SHT. NO.	REV. NO.
NTS	REC/RDSS/33/11KV PSS/22C	1 OF 1	0



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS MARKED * THUS AS 2950mm(CABLE SEALING) IS PROVISIONAL. ACTUAL DIMENSIONS SHALL BE DECIDED AT SITE TO MAINTAIN THE ABOVE DIMENSIONS AS MINIMUM.
 3. IN 5MVA TRANSFORMER BN:20KV LA AND 9KV LA ARE INDICATED ON TRANSFORMER TANK. THE TRANSFORMER SUPPLIER SHALL PROVIDE SUITABLE BRACKETS FIXED TO TRANSFORMER TANK.

REFERENCE:-

1. SINGLE LINE DIAGRAM OF 33/11KV ALAGAPUR S/S DRG.NO. SR/LNER/ALAGAPUR/SUD/001
2. GENERAL ARRANGEMENT OF 33/11KV ALAGAPUR S/S DRG.NO. SR/LNER/ALAGAPUR/04/002
3. LAYOUT OF ALAGAPUR 33/11KV S/S DRG.NO. SR/LNER/ALAGAPUR/LV/003

FOR TENDER PURPOSE ONLY

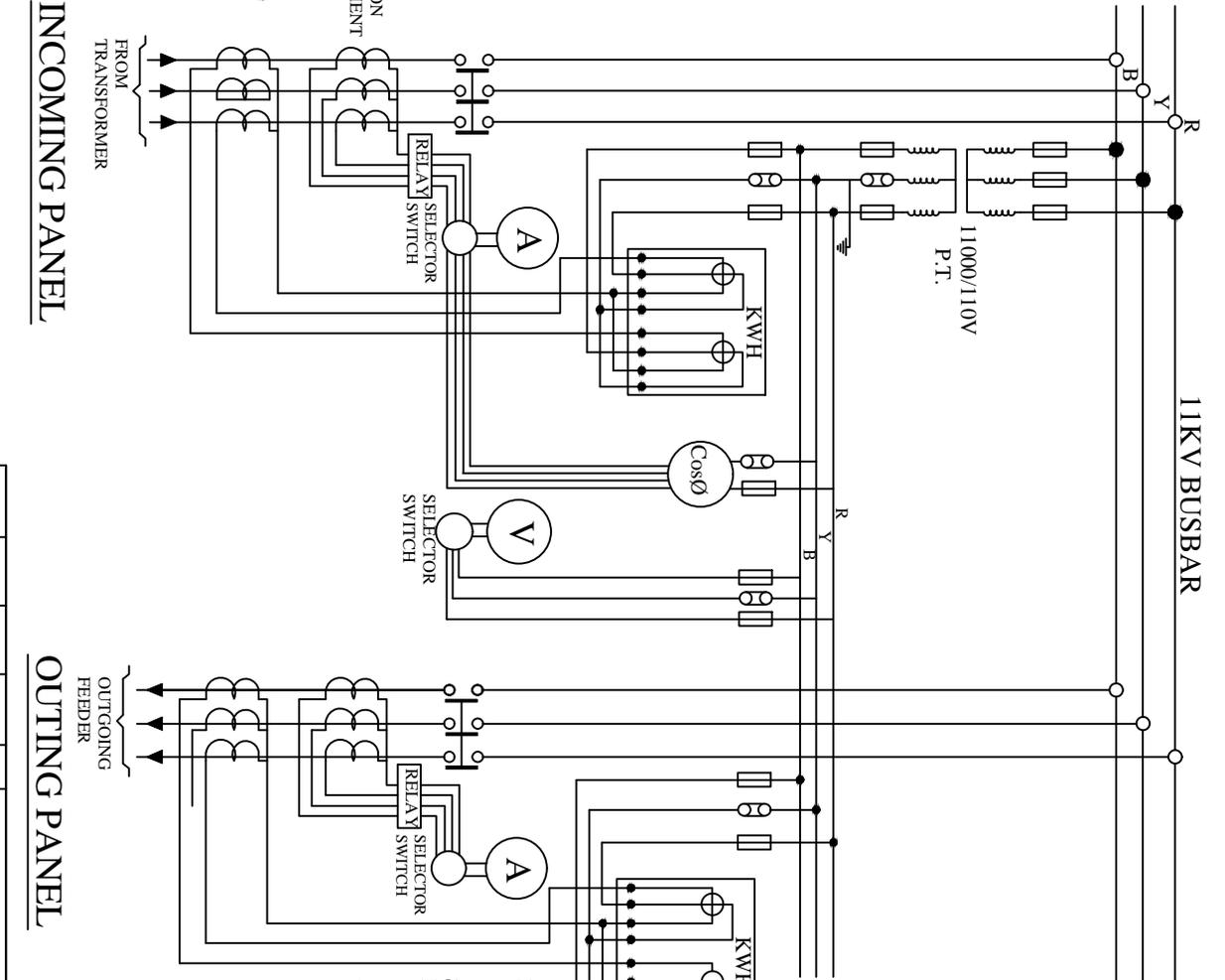
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

Layout Section of 33/11 KV Substation

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11KV PSS/23	1 OF 1	0



NOTE:-
 1. EACH OF THE IN COMING AND OUTGOING 11 KV PANELS SHOULD BE PROVIDED WITH A kWh. METER AND AN AMMETER FOR PROPER ASSESSMENT OF LOSSES IN ADDITION . EACH INCOMING PANEL SHOULD HAVE A VOLTMETER. IN CASE THERE ARE NO INCOMING PANELS, A VOLTAMETER SHOULD BE PROVIDED ON ONE OF THE OUTGOING PANELS.
 2. ONLY ONE P.T. AND ONE POWER FACTOR METER NEED BE PROVIDED AT EACH SUB-STATION.

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Rural Electrification Corporation Ltd.

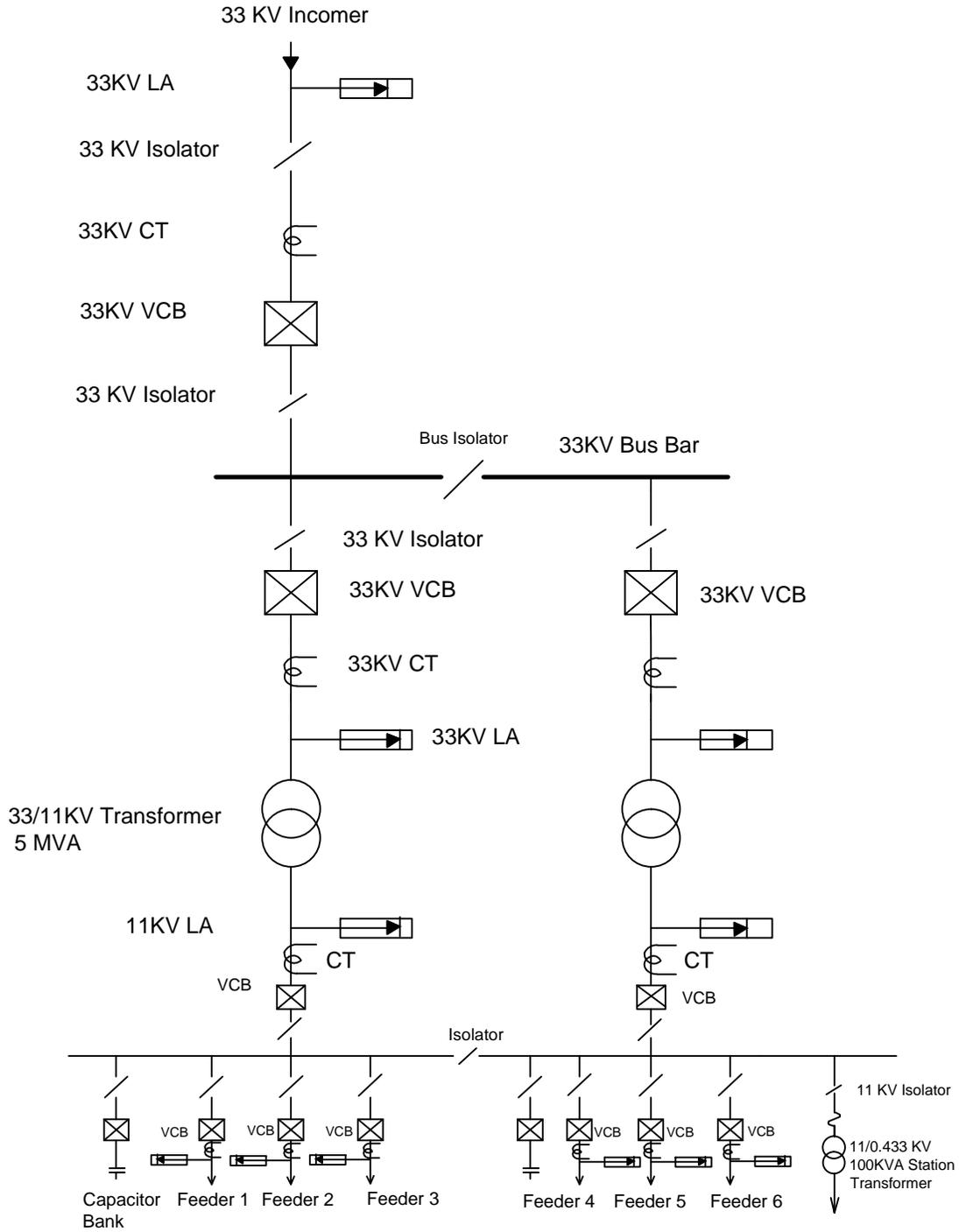
PROJECT: **REC** **आर ई सी**
 Revamped Distribution Sector Scheme (RDSS)
 TITLE: 33-11kV Sub-Str. Metering Arrangement.

INCOMING PANEL

OUTGOING PANEL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/27	1 OF 1	0



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Rural Electrification Corporation Ltd.

PROJECT:

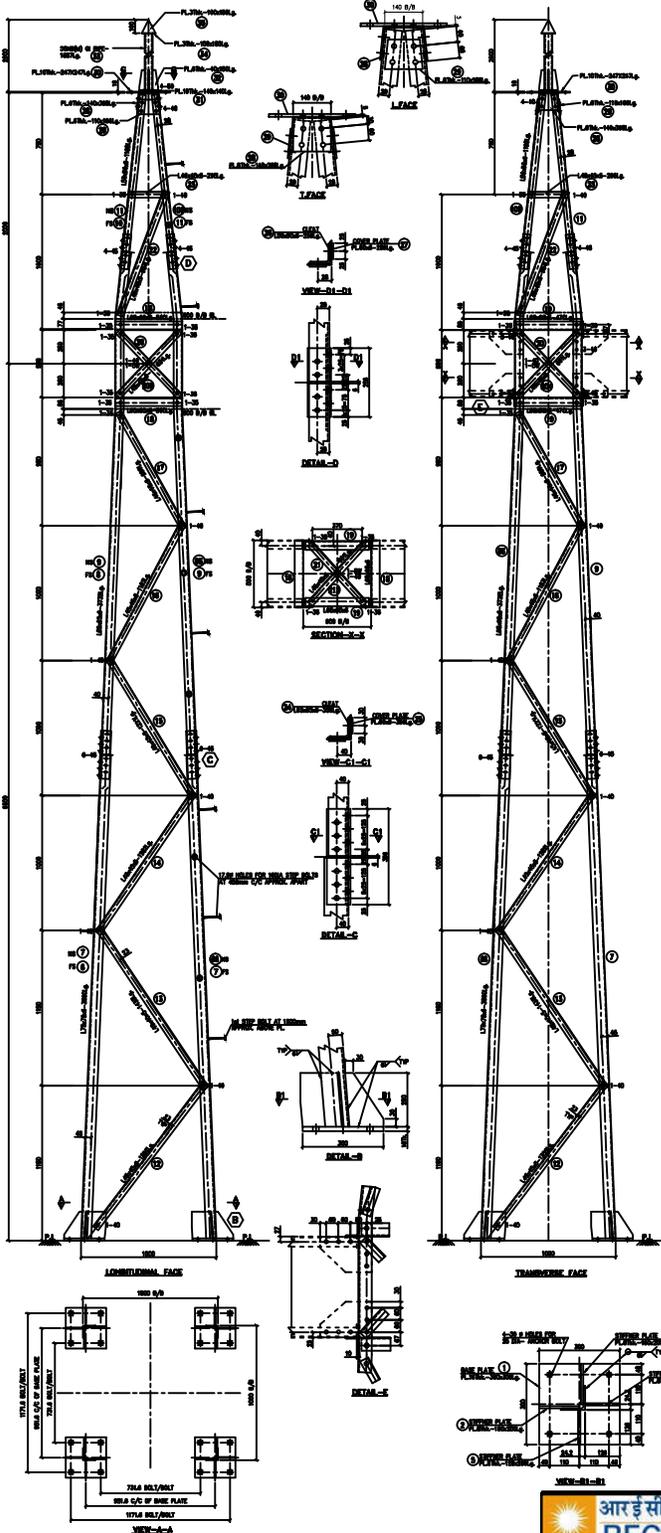
Revamped Distribution Sector Scheme (RDSS)

TITLE

Typical SLD of 33/11KV PSS with 2 Transformer and One Incoming Line

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

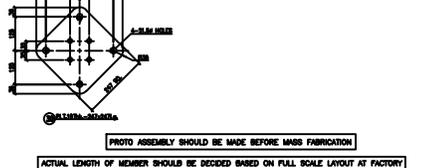
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /33/11kv PSS/28	1 OF 1	0



BILL OF MATERIAL						
Erection Mark	Section	Length Size(In MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	1.61	6.43
6	L75x75x6	3590	1	6.8	24.41	24.41
6S	L75x75x6	3590	1	6.8	24.41	24.41
7	L75x75x6	3590	2	6.8	24.41	48.82
8	L65x65x6	3732	1	5.8	21.65	21.65
8S	L65x65x6	3732	1	5.8	21.65	21.65
9	L65x65x6	3732	2	5.8	21.65	43.3
10	L50x50x6	1168	1	4.5	5.26	5.26
10a	L50x50x6	1168	1	4.5	5.26	5.26
11	L50x50x6	1168	2	4.5	5.26	10.51
12	L45x45x5	1352	4	3.4	4.60	18.4
13	L45x45x5	1435	4	3.4	4.88	19.52
14	L45x45x5	1262	4	3.4	4.29	17.16
15	L45x45x5	1221	4	3.4	4.15	16.61
16	L45x45x5	1183	4	3.4	4.02	16.08
17	L45x45x5	989	4	3.4	3.36	13.44
18	L65x65x6	500	4	5.8	2.9	11.6
19	L65x65x6	470	4	5.8	2.73	10.90
20	L45x45x5	663	4	3.4	2.25	9.02
20X	L45x45x5	663	4	3.4	2.25	9.02
21	L45x45x5	601	2	3.4	2.04	4.08
21X	L45x45x5	601	2	3.4	2.04	4.08
22	L45x45x5	984	4	3.4	3.35	13.4
23	L45x45x5	295	4	3.4	1.00	4.00
24	L65x65x6	356	2	5.8	2.06	4.13
25	6MM PLATE	356x60	4	47.1	1.00	4.00
26	L50x50x6	256	2	4.5	1.15	2.3
27	6MM PLATE	256x50	4	47.1	0.60	2.41
28	6MM PLATE	140x398	1	47.1	2.62	2.62
29	6MM PLATE	110x166	2	47.1	0.86	1.72
30	10MM PLATE	247x247	1	78.5	4.79	4.79
31	10MM PLATE	140x140	1	78.5	1.54	1.54
32	6MM PLATE	40x150	4	47.1	0.283	1.130
33	5DNB PIPE	1887	1	5.1	9.62	9.62
34	3MM PLATE	100x100	1	23.55	0.236	0.236
35	3MM PLATE	100x150	1	23.55	0.353	0.353
TOTAL WEIGHT						456.18

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	44	0.124	5.46
M16x40mm Lg. BOLTS & NUTS	74	0.132	9.77
M16x45mm Lg. BOLTS & NUTS	80	0.14	11.2
M16x50mm Lg. BOLTS & NUTS	4	0.148	0.59
M16x55mm Lg. BOLTS & NUTS	-	0.156	-
M16x75mm Lg. STEP BOLTS	13	0.41	5.33
M16x5Thk. PACK WASHER	6	0.028	0.168
M16x8Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	202	0.009	1.818
TOTAL			28.85

- NOTES**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 - BOLT SYMBOLS 16# ϕ = 17.5# HOLES
 - ALL ERECTION MARKS ARE TO BE PROVIDED WITH - "T1"
 - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 - ALL CONNECTION BOLTS SHALL BE OF 16mm ϕ CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.8 CONFORMING TO IS: 1387 (PART-8).
 - MILD STEEL SHALL CONFORM TO GRADE A (IS:410) OF IS:2002
 - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
 - UNNOTED GUSSET ARE 6mm THICK
 - PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 2002
 - ALL NUTS SHALL CONFORM TO IS: 12427
 - GALVANISING SHALL CONFORM TO IS: 2829-1985 & IS:4759-1996.
 - BRACING HOLES SHALL BE SUITABLY CHAMFERED WHENEVER NECESSARY.
 - MANUFACTURER 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 GALVANISING.



FOR TENDER PURPOSE ONLY



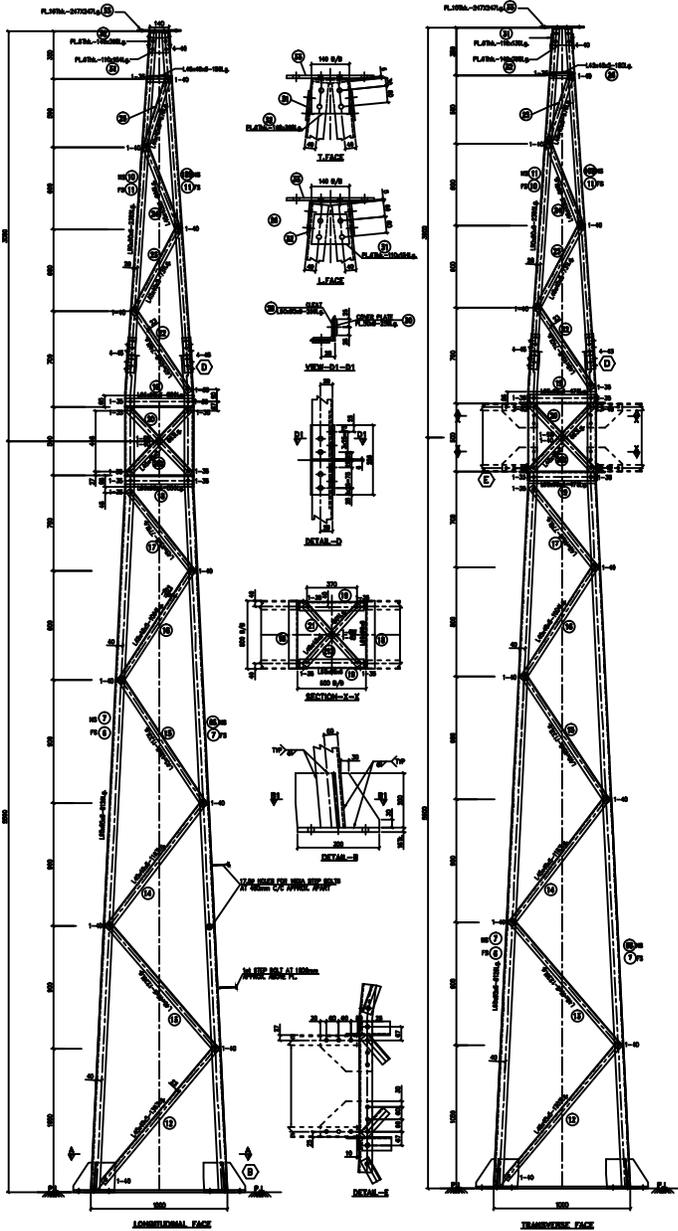
Rural Electrification Corporation Ltd.

PROJECT: **Revamped Distribution Sector Scheme (RDSS)**

TITLE: **STRUCTURAL DETAILS OF TOWER TYPE - "T1"**

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

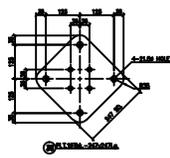
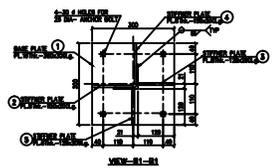
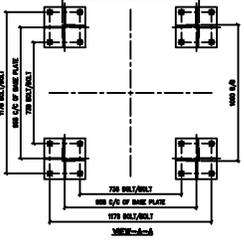
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /33/11kV PSS/29	1 OF 1	0



BILL OF MATERIAL						
Erection Mark	Section	Length Size (x MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.68	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.68	7.54
5	8MM PLATE	128x200	4	62.8	1.61	6.43
6	L65x65x6	6126	1	5.8	35.53	35.53
6S	L65x65x6	6126	1	5.8	35.53	35.53
7	L65x65x6	6126	2	5.8	35.53	71.06
8	L65x65x6	DELETED				
8S	L65x65x6	DELETED				
9	L65x65x6	DELETED				
10	L65x65x6	2365	1	5.8	13.72	13.72
10s	L65x65x6	2365	1	5.8	13.72	13.72
11	L65x65x6	2365	2	5.8	13.72	27.44
12	L45x45x5	1303	4	3.4	4.43	17.72
13	L45x45x5	1239	4	3.4	4.21	16.84
14	L45x45x5	1183	4	3.4	4.02	16.08
15	L45x45x5	1133	4	3.4	3.85	15.41
16	L45x45x5	1004	4	3.4	3.14	13.65
17	L45x45x5	778	4	3.4	2.65	10.58
18	L65x65x6	500	4	5.8	2.9	11.6
19	L65x65x6	470	4	5.8	2.73	10.90
20	L45x45x5	663	4	3.4	2.25	9.01
20X	L45x45x5	663	4	3.4	2.25	9.01
21	L45x45x5	601	2	3.4	2.04	4.08
21X	L45x45x5	601	2	3.4	2.04	4.08
22	L45x45x5	740	4	3.4	2.52	10.08
23	L45x45x5	731	4	3.4	2.49	9.96
24	L45x45x5	698	4	3.4	2.37	9.48
25	L45x45x5	576	4	3.4	1.94	7.76
26	L45x45x5	180	4	3.4	0.612	2.45
27	DELETED					
28	DELETED					
29	L50x50x6	256	2	4.5	1.15	2.3
30	6MM PLATE	256x50	4	47.1	0.60	2.41
31	6MM PLATE	110x154	2	47.1	0.80	1.6
32	6MM PLATE	140x398	1	47.1	2.62	2.62
33	10MM PLATE	247x247	1	78.5	4.79	4.79
TOTAL WEIGHT						427.04

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	44	0.114	5.02
M16x40mm Lg. BOLTS & NUTS	86	0.124	10.66
M16x45mm Lg. BOLTS & NUTS	32	0.132	4.224
M16x50mm Lg. BOLTS & NUTS	-	0.136	-
M16x55mm Lg. BOLTS & NUTS	-	0.144	-
M16x175mm Lg. STEP BOLTS	13	0.41	5.33
M16x5Thk. PACK WASHER	6	0.028	0.168
M16x6Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	202	0.009	1.818
TOTAL			27.068

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 1/4" - 17.50 HOLES
 3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T2".
 4. 3.0mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 5. ALL CONNECTION BOLTS SHALL BE OF 16mm Ø CONFORMING TO IS 15427 OF PROPERTY CLASS 8.8 CONFORMING TO IS 1567 (PWT-6).
 6. MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS 2002
 7. MINIMUM EDGE SECURITY FOR 16mm BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNGOTTED MEMBERS ARE L45x45x5 WITH 23 Ø
 9. UNGOTTED GUSSETS ARE 6mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS 2018 & SPRING WASHER SHALL BE AS PER IS 3043.
 11. ALL BOLTS SHALL CONFORM TO IS 15427
 12. GALVANIZING SHALL CONFORM TO IS: 2023-1985 & IS:4750-1994.
 13. BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHENEVER 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.



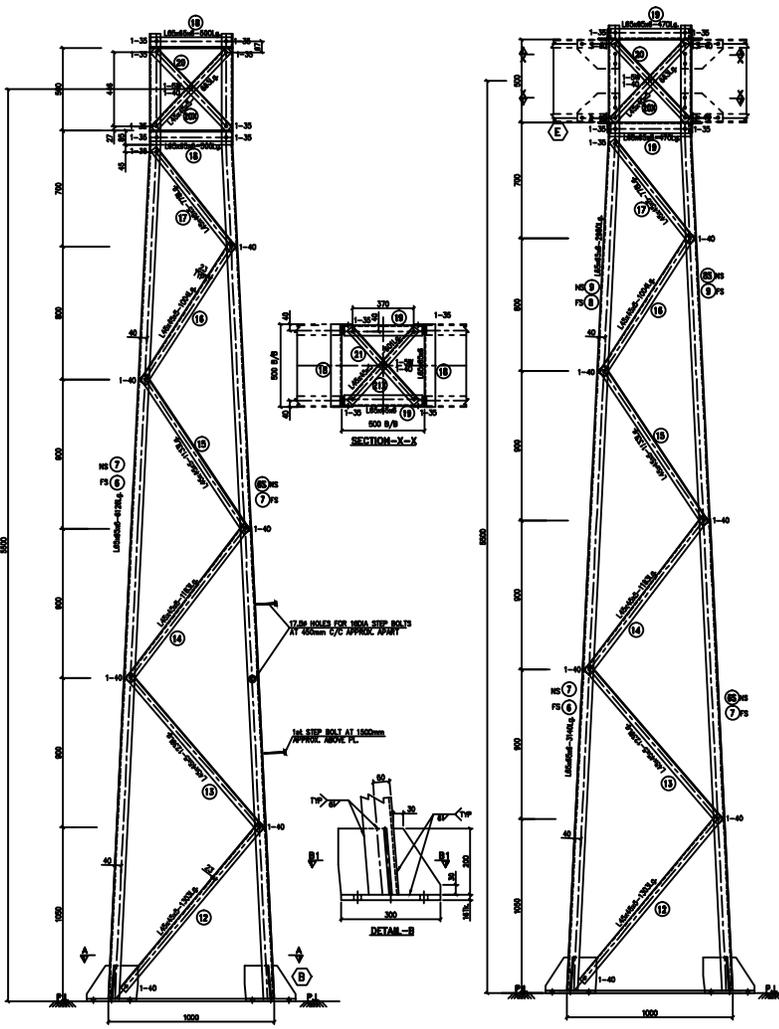
FOR TENDER PURPOSE ONLY

PROJECT: **Revamped Distribution Sector Scheme (RDSS)**

TITLE: **STRUCTURAL DETAILS OF TOWER TYPE - "T2"**

PHOTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION
ACTUAL LENGTH OF MEMBER SHOULD BE DECIDED BASED ON FULL SCALE LAYOUT AT FACTORY

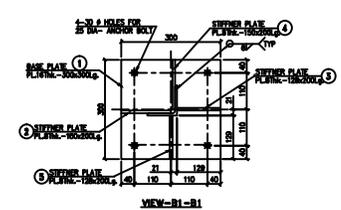
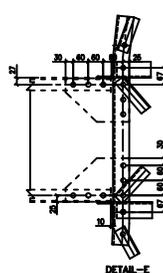
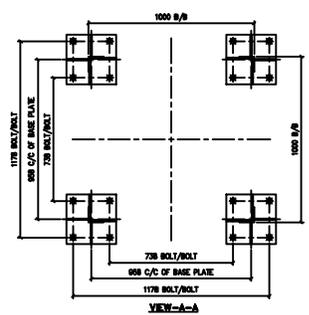
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/ RDSS /33/11kV PSS/30A	1 OF 1	0



BILL OF MATERIAL						
Erection Mark	Section	Length Size (in MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	1.61	6.43
6	L65x65x6	6126	1	5.8	35.53	35.53
6S	L65x65x6	6126	1	5.8	35.53	35.53
7	L65x65x6	6126	2	5.8	35.53	71.06
8	DELETED					
8S	DELETED					
9	DELETED					
10	DELETED					
10a	DELETED					
11	DELETED					
12	L45x45x5	1303	4	3.4	4.43	17.72
13	L45x45x5	1239	4	3.4	4.21	16.84
14	L45x45x5	1183	4	3.4	4.02	16.08
15	L45x45x5	1133	4	3.4	3.85	15.41
16	L45x45x5	1004	4	3.4	3.14	13.65
17	L45x45x5	778	4	3.4	2.65	10.58
18	L65x65x6	500	4	5.8	2.9	11.6
19	L65x65x6	470	4	5.8	2.73	10.90
20	L45x45x5	663	4	3.4	2.25	9.01
20X	L45x45x5	663	4	3.4	2.25	9.01
21	L45x45x5	601	2	3.4	2.04	4.08
21X	L45x45x5	601	2	3.4	2.04	4.08
TOTAL WEIGHT						354.24

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	36	0.114	4.104
M16x40mm Lg. BOLTS & NUTS	54	0.124	6.70
M16x45mm Lg. BOLTS & NUTS	-	0.132	-
M16x50mm Lg. BOLTS & NUTS	-	0.136	-
M16x55mm Lg. BOLTS & NUTS	-	0.144	-
M16x175mm Lg. STEP BOLTS	11	0.41	4.51
M16x5Thk. PACK WASHER	6	0.028	0.168
M16x6Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	138	0.009	1.24
TOTAL			16.57

- NOTES**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 - BOLT SYMBOLS 16# \diamond = 17.5# HOLES
 - ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T2A".
 - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 - ALL CONNECTION BOLTS SHALL BE OF 16mm Φ CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.8 CONFORMING TO IS: 1367 (PART-6).
 - MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS:2062
 - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
 - UNNOTED GUSSETERS ARE 6mm THICK
 - PLAN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.
 - ALL NUTS SHALL CONFORM TO IS: 12427
 - GALVANIZING SHALL CONFORM TO IS: 2659-1065 & IS:4759-1006.
 - BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY.
 - 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



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Rural Electrification Corporation Ltd.

PROJECT: **Revamped Distribution Sector Scheme (RDSS)**

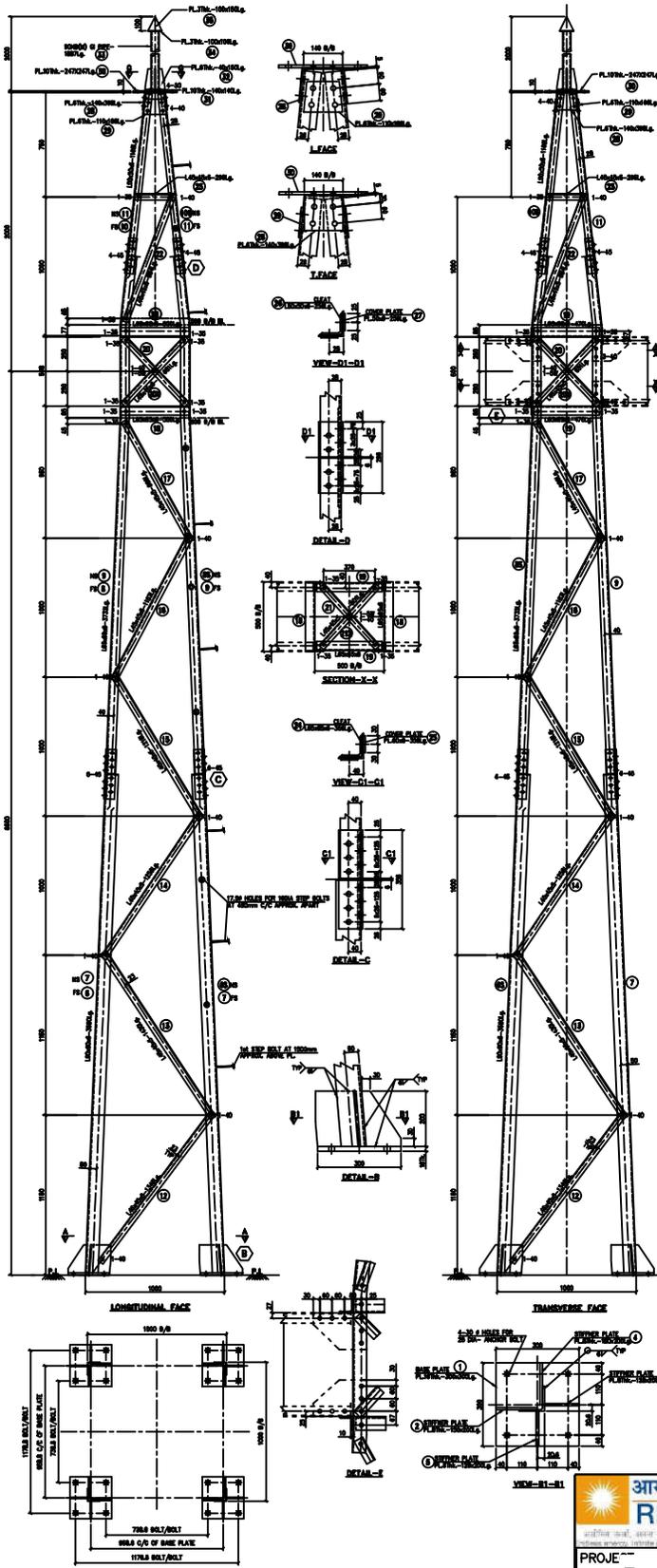
TITLE: **STRUCTURAL DETAILS OF TOWER TYPE - "T2A"**

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /33/11kV PSS/30B	1 OF 1	0

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



BILL OF MATERIAL						
Erection Mark	Section	Length Size(in MM)	Reqd. Qty.	Unit/W Weight	Unit/Ass. Weight	Total Weight(Kg)
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	1.61	6.43
6	L90x90x6	3590	1	8.2	29.44	29.44
6S	L90x90x6	3590	1	8.2	29.44	29.44
7	L90x90x6	3590	2	8.2	29.44	58.88
8	L65x65x6	3732	1	5.8	21.65	21.65
8S	L65x65x6	3732	1	5.8	21.65	21.65
9	L65x65x6	3732	2	5.8	21.65	43.3
10	L50x50x6	1168	1	4.5	5.26	5.26
10s	L50x50x6	1168	1	4.5	5.26	5.26
11	L50x50x6	1168	2	4.5	5.26	10.51
12	L45x45x5	1349	4	3.4	4.59	13.45
13	L45x45x5	1430	4	3.4	4.86	19.45
14	L45x45x5	1256	4	3.4	4.27	17.08
15	L45x45x5	1218	4	3.4	4.14	16.56
16	L45x45x5	1183	4	3.4	4.02	16.08
17	L45x45x5	989	4	3.4	3.36	13.44
18	L65x65x6	500	4	5.8	2.9	11.6
19	L65x65x6	470	4	5.8	2.73	10.90
20	L45x45x5	663	4	3.4	2.25	9.02
20X	L45x45x5	663	4	3.4	2.25	9.02
21	L45x45x5	601	2	3.4	2.04	4.08
21X	L45x45x5	601	2	3.4	2.04	4.08
22	L45x45x5	984	4	3.4	3.35	13.4
23	L45x45x5	295	4	3.4	1.00	4.00
24	L65x65x6	356	2	5.8	2.06	4.13
25	6MM PLATE	356x60	4	47.1	1.00	4.00
26	L60x60x6	256	2	5.4	1.38	2.76
27	6MM PLATE	256x50	4	47.1	0.60	2.41
28	6MM PLATE	140x398	1	47.1	2.62	2.62
29	6MM PLATE	110x166	2	47.1	0.86	1.72
30	10MM PLATE	247x247	1	78.5	4.79	4.79
31	10MM PLATE	140X140	1	78.5	1.54	1.54
32	6MM PLATE	40X150	4	47.1	0.283	1.130
33	50NB PIPE	1887	1	5.1	9.62	9.62
34	3MM PLATE	100X100	1	23.55	0.236	0.236
35	3MM PLATE	100X150	1	23.55	0.353	0.353
TOTAL WEIGHT						496.02

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	44	0.124	5.46
M16x40mm Lg. BOLTS & NUTS	74	0.132	9.77
M16x45mm Lg. BOLTS & NUTS	80	0.14	11.2
M16x50mm Lg. BOLTS & NUTS	4	0.148	0.59
M16x55mm Lg. BOLTS & NUTS	—	0.156	—
M16x175mm Lg. STEP BOLTS	13	0.41	5.33
M16x5Thk. PACK WASHER	6	0.028	0.168
M16x6Thk. PACK WASHER	—	0.034	—
M16x8Thk. PACK WASHER	—	0.045	—
M16x12Thk. PACK WASHER	—	0.068	—
M16x3.5Thk. SPRING WASHER	202	0.009	1.818
TOTAL			28.85

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16φ = 17.5φ HOLES
 3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T3".
 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 5.8 CONFORMING TO IS: 1367 (PART-0).
 6. WELD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS2062
 7. MINIMUM EDGE SECURITY FOR 16φ BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED MEMBERS ARE L45x45x5 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: 2063.
 11. ALL NUTS SHALL CONFORM TO IS: 12427
 12. GALVANIZING SHALL CONFORM TO IS: 2623-1985 & IS:4759-1996.
 13. BRACING ANGLES SHALL BE SUITABLY 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



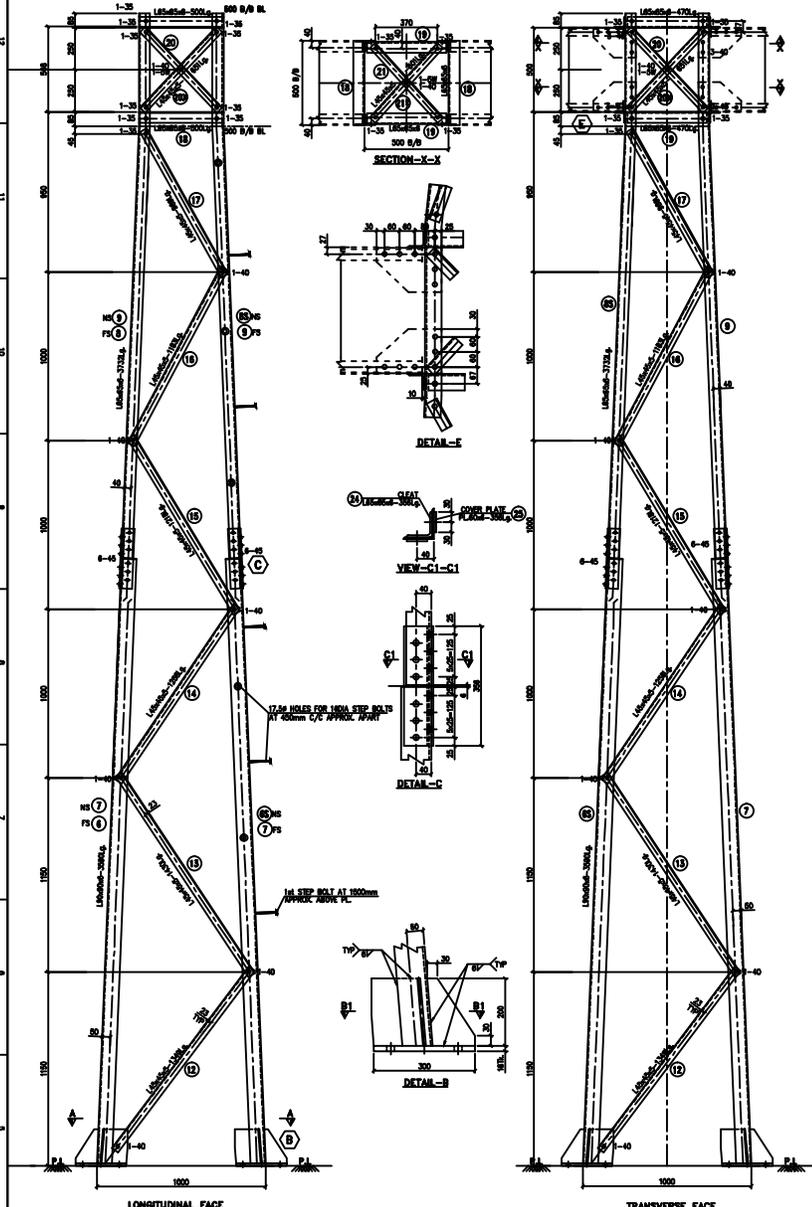
Rural Electrification Corporation Ltd.

PROJECT - Revamped Distribution Sector Scheme (RDSS)

TITLE - STRUCTURAL DETAILS OF TOWER TYPE - "T3"

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

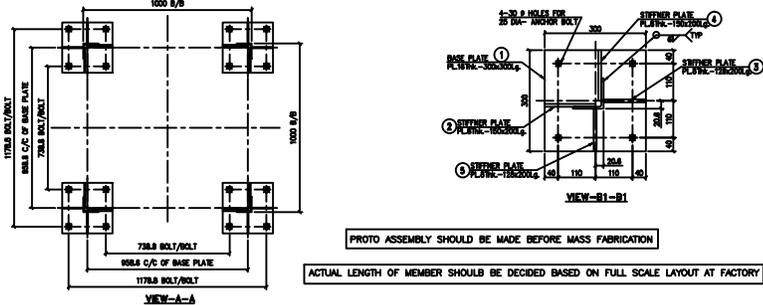
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/(RDSS /33/11kV PSS/31A	1 OF 1	0



BILL OF MATERIAL						
Erection Mark	Section	Length Size (in MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	1.61	6.43
6	L90x90x6	3590	1	8.2	29.44	29.44
6S	L90x90x6	3590	1	8.2	29.44	29.44
7	L90x90x6	3590	2	8.2	29.44	58.88
8	L65x65x6	3732	1	5.8	21.65	21.65
8S	L65x65x6	3732	1	5.8	21.65	21.65
9	L65x65x6	DELETED				
10	L50x50x6	DELETED				
10s	L50x50x6	DELETED				
11	L50x50x6	1168	2	4.5	5.26	10.51
12	L45x45x5	1349	4	3.4	4.59	13.45
13	L45x45x5	1430	4	3.4	4.86	19.45
14	L45x45x5	1256	4	3.4	4.27	17.08
15	L45x45x5	1218	4	3.4	4.14	16.56
16	L45x45x5	1183	4	3.4	4.02	16.08
17	L45x45x5	989	4	3.4	3.36	13.44
18	L65x65x6	500	4	5.8	2.9	11.6
19	L65x65x6	470	4	5.8	2.73	10.90
20	L45x45x5	663	4	3.4	2.25	9.02
20X	L45x45x5	663	4	3.4	2.25	9.02
21	L45x45x5	601	2	3.4	2.04	4.08
21X	L45x45x5	601	2	3.4	2.04	4.08
22	L45x45x5	DELETED				
23	L45x45x5	DELETED				
24	L65x65x6	356	2	5.8	2.06	4.13
25	6MM PLATE	356x60	4	47.1	1.00	4.00
TOTAL WEIGHT						397.62

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	36	0.114	4.104
M16x40mm Lg. BOLTS & NUTS	54	0.124	6.70
M16x45mm Lg. BOLTS & NUTS	48	0.132	6.34
M16x50mm Lg. BOLTS & NUTS	-	0.136	-
M16x55mm Lg. BOLTS & NUTS	-	0.144	-
M16x175mm Lg. STEP BOLTS	11	0.41	4.51
M16x5Thk. PACK WASHER	6	0.028	0.0168
M16x6Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	138	0.009	1.24
TOTAL			22.9

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16# = 17.5# HOLES
 3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T3A".
 4. 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 5. ALL CONNECTION BOLTS SHALL BE OF 16mm # CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1357 (PART-6).
 6. WILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS:2062
 7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED MEMBERS ARE L45x45x5 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: 2029-1985 & IS:4759-1996.
 13. BRACING ANGLES SHALL BE SUITABLY 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.



PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION
 ACTUAL LENGTH OF MEMBER SHOULD BE DECIDED BASED ON FULL SCALE LAYOUT AT FACTORY

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: **Revamped Distribution Sector Scheme (RDSS)**

TITLE: **STRUCTURAL DETAILS OF TOWER TYPE - "T3A"**

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/(RDSS /33/11kV PSS/31B	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

STRAP: -

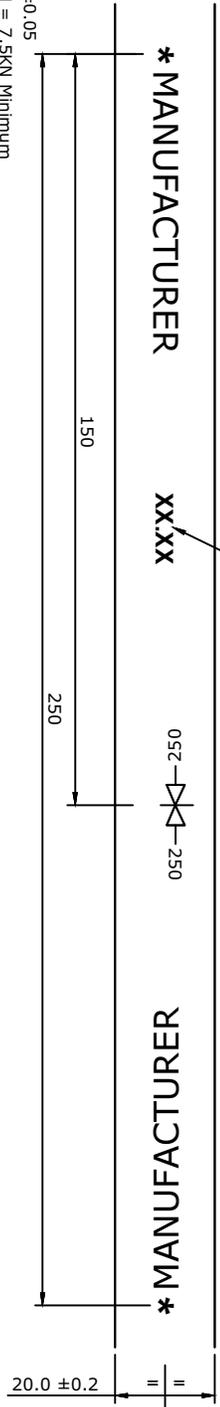
YEAR AND MONTH OF
MANUFACTURING

* MANUFACTURER

XX.XX

052--250

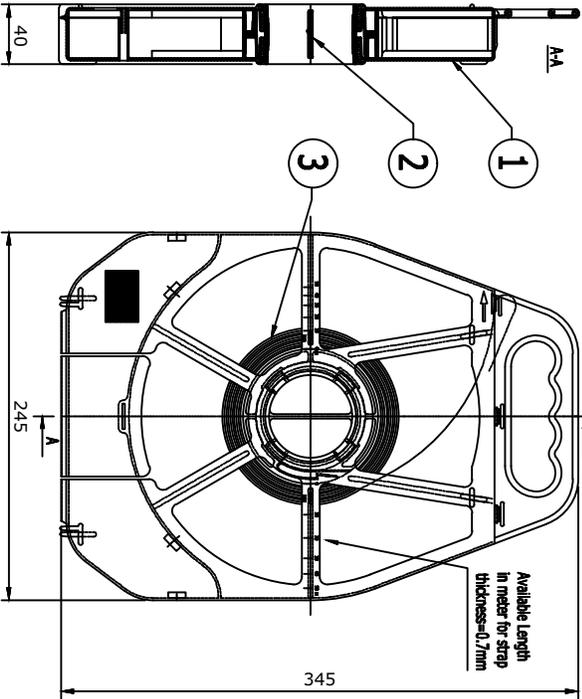
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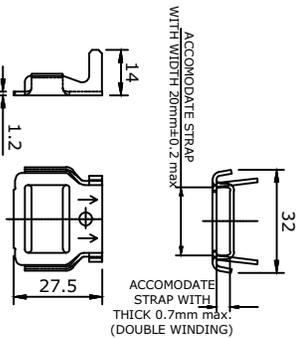
NOTE :-

THICKNESS = 0.7 ± 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.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revised Distribution Sector Scheme (RDSS)

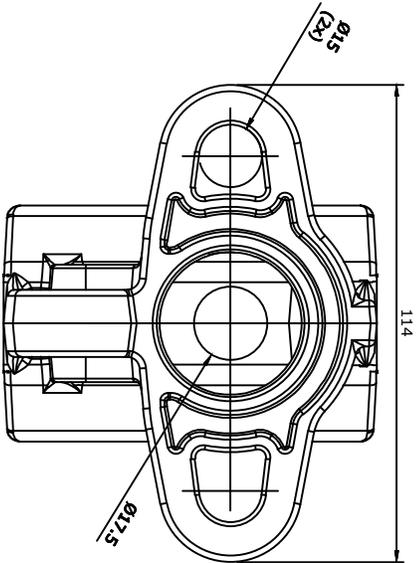
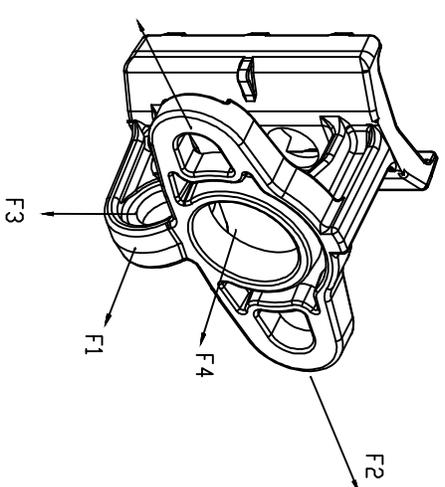
STAINLESS STEEL STRAP (20 x 0.7) & BUCKLES

1	S.S STRAP CASING	1	Polypropylene
2	S.S STRAP BOBIN	1	Polypropylene
3	S.S STRAP	50 M	SS 202

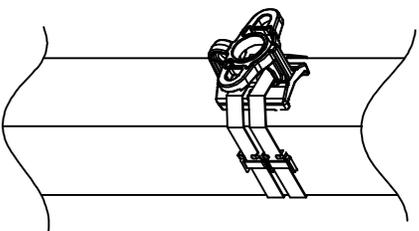
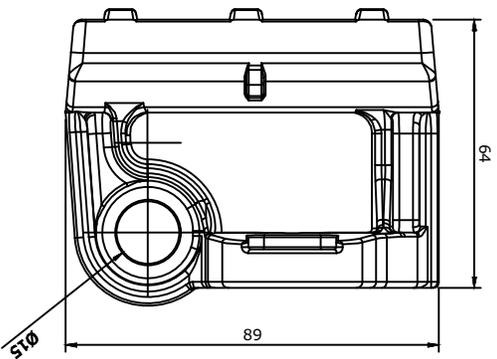
NOTE :-
GROSS WEIGHT PER CASING = 5.7 Kg (Approx.)
QUANTITY PER STANDARD CARTON BOX = 5 nos.

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



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NOTE:-
MATERIAL : ALUMINIUM ALLOY
WEIGHT : 'V' GMS(Approx.)

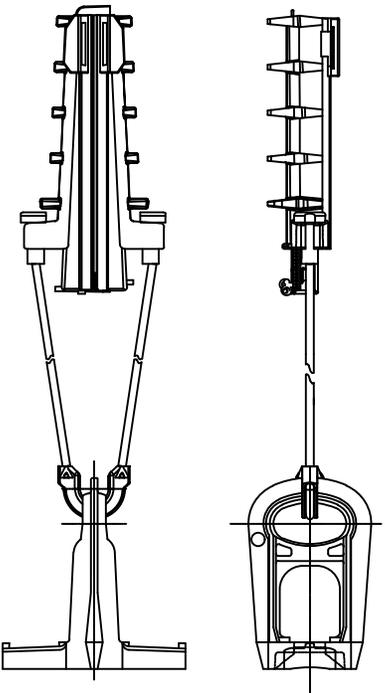
STANDARD REFERENCE: SIMILAR TD NFC 33-041

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

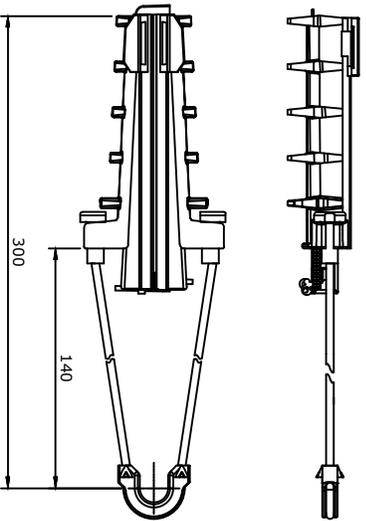
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/02	1 OF 1	0


REC
 Rural Electrification Corporation Ltd.
 PROJECT:
 Revamped Distribution Sector Scheme (RDSS)
 TITLE:
UNIVERSAL POLE BRACKET

ANCHORING ASSEMBLY :-

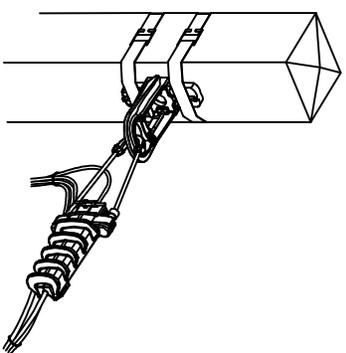


ANCHORING (DEAD-END) CLAMP :-



SPECIFICATION :- AS PER NF C33-041

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



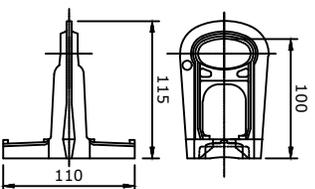
BRACKET :-

NOTE :-

MATERIAL: ALUMINIUM ALLOY

SPECIFICATION :- AS PER NF C33-041

Minimum Breaking Load (KN)	15
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FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.



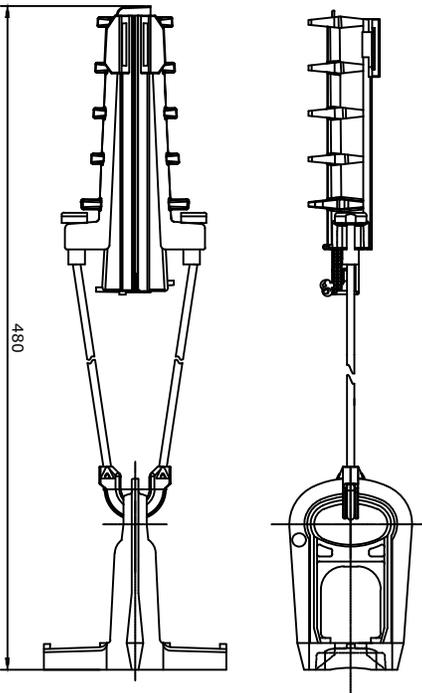
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

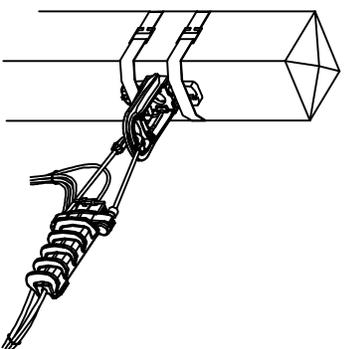
REV. NO.	R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

ANCHORING ASSEMBLY :-



ANCHORING (DEAD-END) CLAMP :-



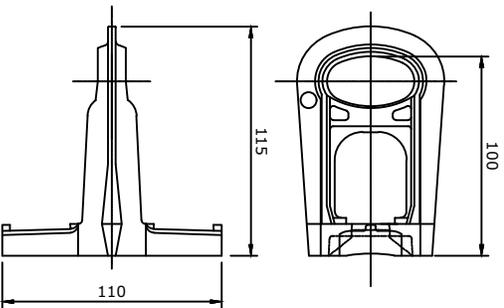
BRACKET :-

NOTE :-

MATERIAL: ALUMINIUM ALLOY

SPECIFICATION :- AS PER NF C33-041

Minimum Breaking Load (kN)	20
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SPECIFICATION :- AS PER NF C33-041

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

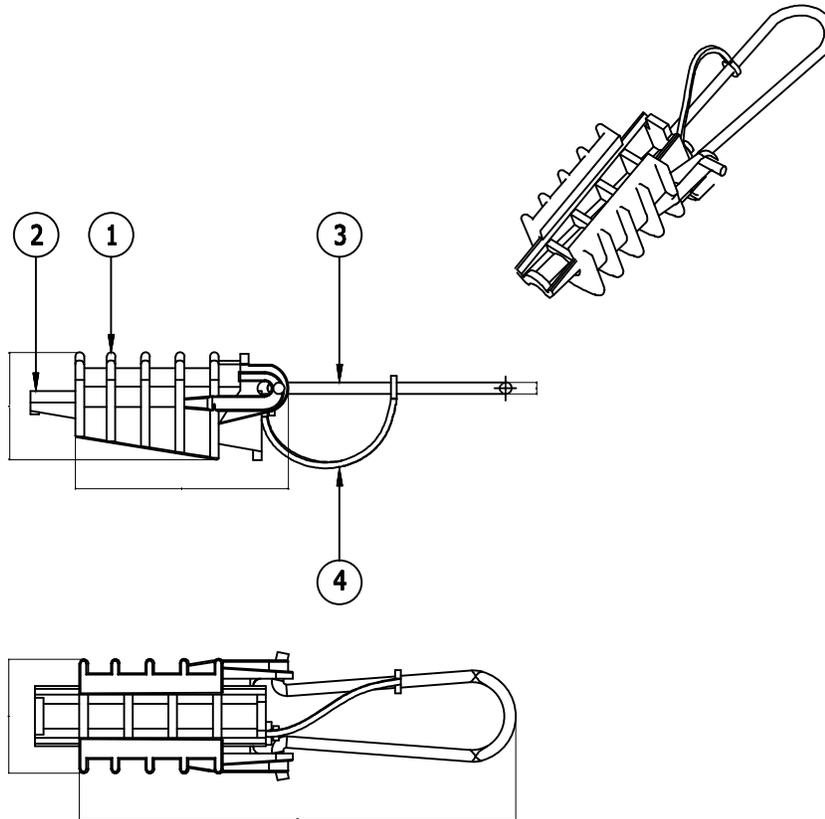
Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



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

FOR TENDER PURPOSE ONLY

Note:- Cable range: Suitable for \varnothing 3mm - \varnothing 9mm



Rural Electrification Corporation Ltd.

PROJECT:

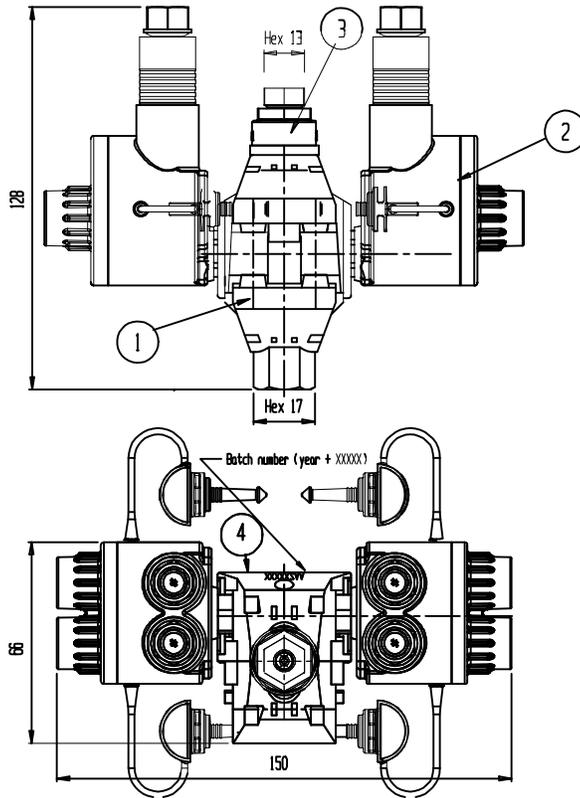
Revamped Distribution Sector Scheme (RDSS)

TITLE

SERVICE CLAMP

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/LT-ACC-ABC/04	1 OF 1	0



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:

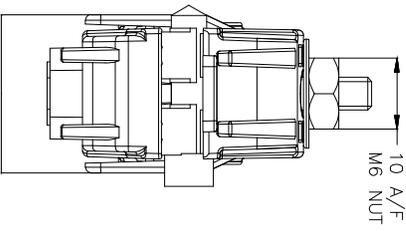
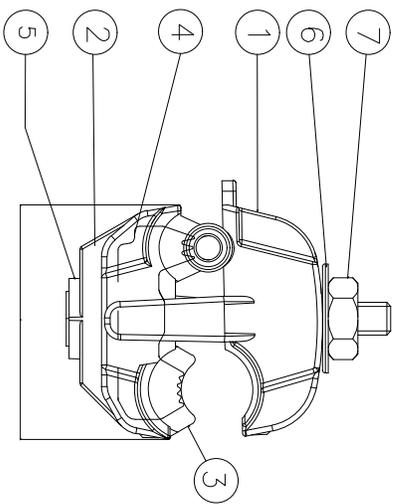
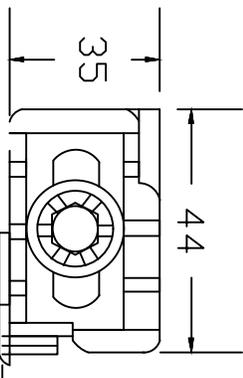
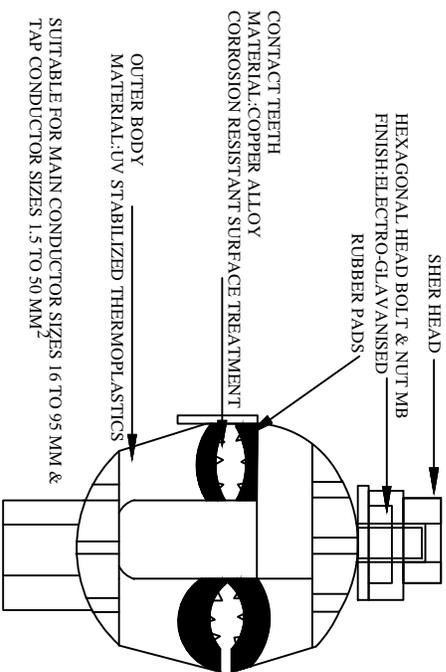
Revamped Distribution Sector Scheme (RDSS)

TITLE

**MUTIPOINT INSULATION PIERCING CONNECTOR
STRIPPING / PIERCING**

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



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

REP	QTY	DESCRIPTION	MATERIAL
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

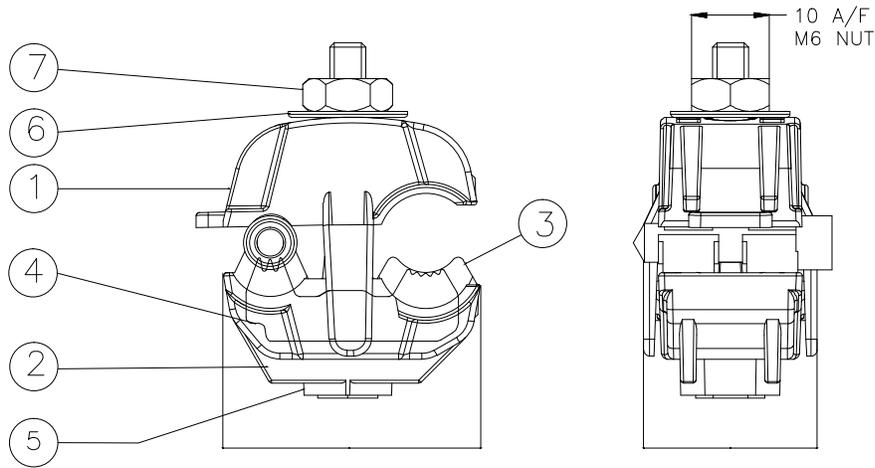
FOR TENDER PURPOSE ONLY

All dimensions are in mm.

REC **आर ई सी**
 RURAL ELECTRIFICATION CORPORATION LTD.
 PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: INSULATION PIERCING CONNECTOR

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/LT-ACC-ABC/05B	1 OF 1	0



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.

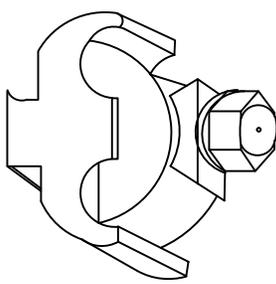
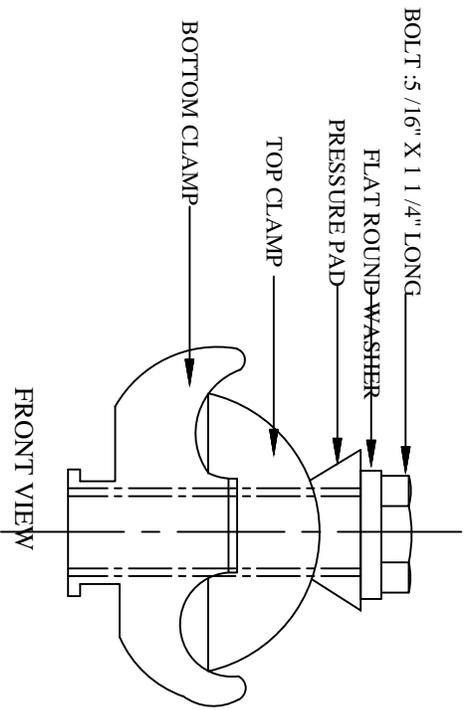
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

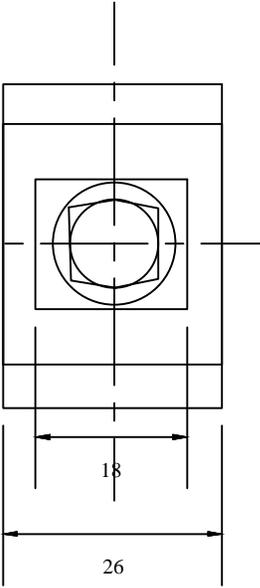
TITLE

EARTHING CONNECTOR

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
REV. NO.						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 : ± 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

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

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-ACC-ABC/06B	1 OF 1	0

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
REP	QTY	DESCRIPTION	MATERIAL	COLOUR

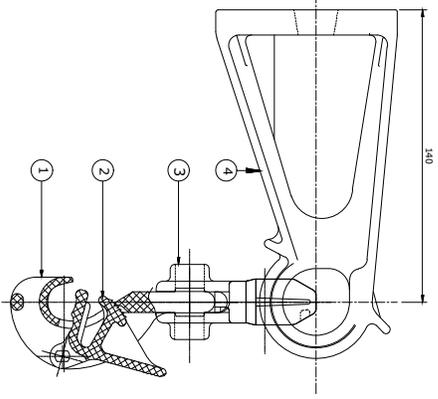
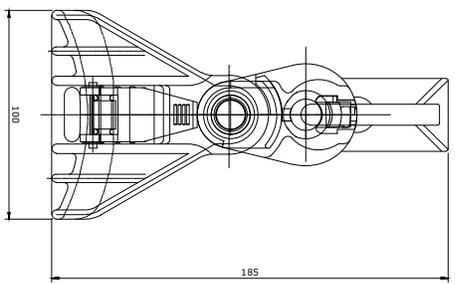
SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL: SEE TABLE

WEIGHT: 380 GRAMS (Approx)

MARKING: ES 54 14-2



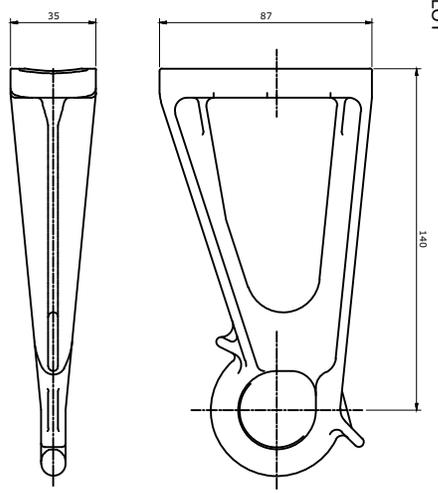
BRACKET :- CS 14

NOTE :-

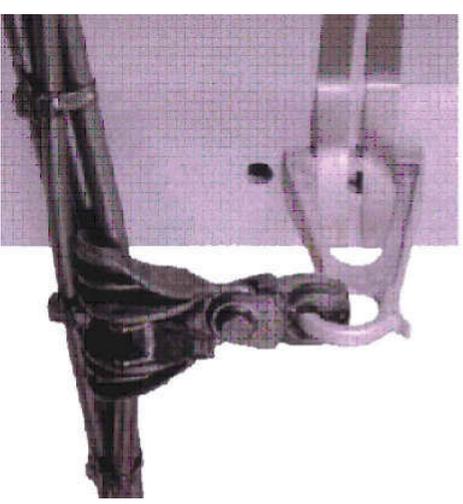
MATERIAL: HEAT TREATED ALUMINIUM ALLOY

MARKING: CS 14

SPECIFICATION :- AS PER NFC33040



R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

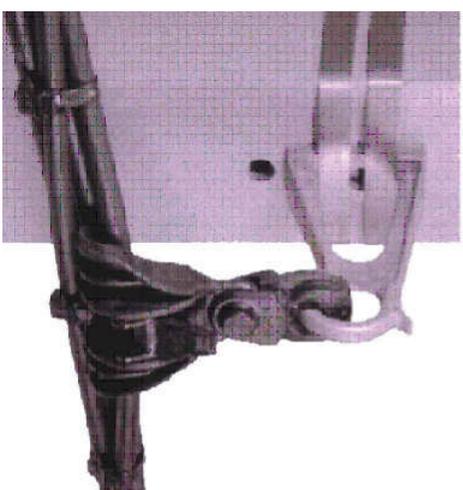
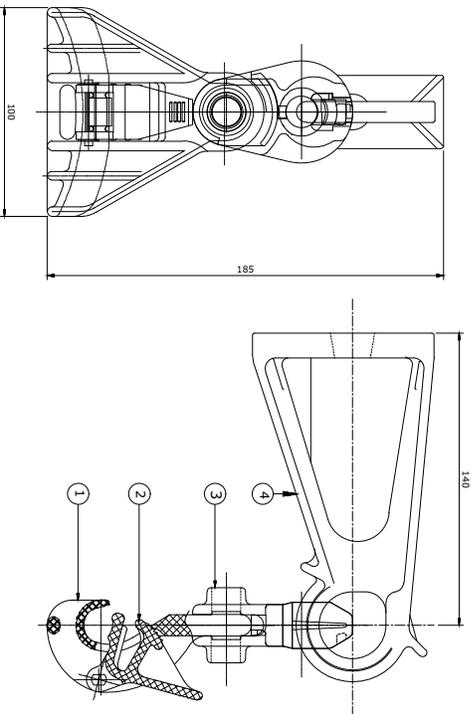
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
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

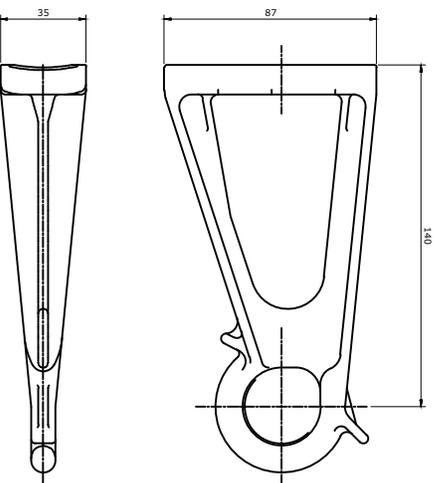
REP	QTY	DESCRIPTION	MATERIAL	COLOUR
4	1	MOUNTING BRACKET	HEAT TREATED ALUMINIUM ALLOY	NA
3	2	MOVABLE LINK	THERMO PLASTIC	BLACK
2	1	LEVER	THERMO PLASTIC	BLACK
1	1	BODY	THERMO PLASTIC	BLACK

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)**

SIZE:

A4

SCALE:

1:100

DRG. NO.

REC/RDSS/LT-ACC-ABC/07B

SHT. NO.

1 OF 1

REV. NO.

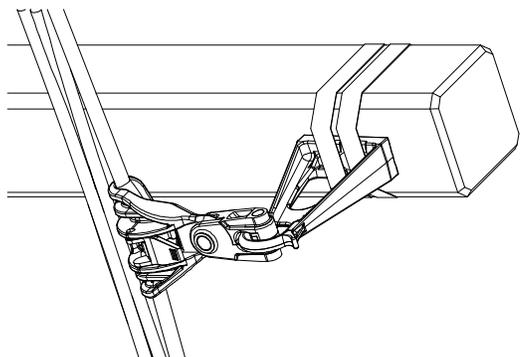
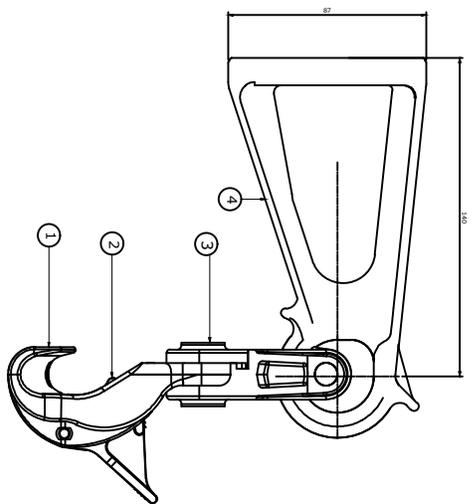
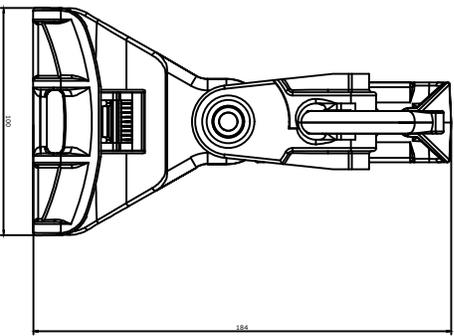
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REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SUSPENSION ASSEMBLY :-

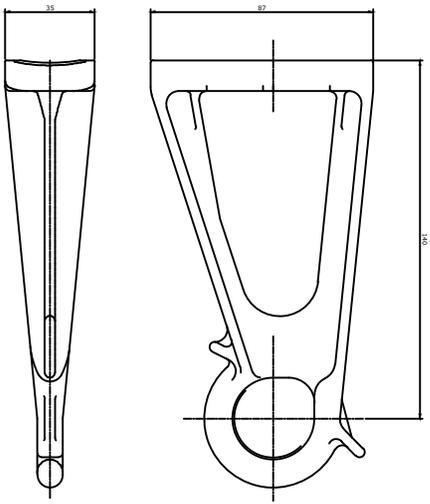
NOTE :-
MATERIAL : SEE TABLE

REP	QTY	DESCRIPTION	MATERIAL	COLOUR
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



BRACKET :-

NOTE :-
MATERIAL : HEAT TREATED ALUMINIUM ALLOY
SPECIFICATION :- AS PER NFC33040



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

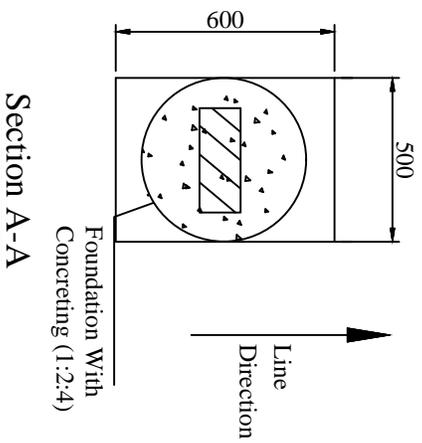
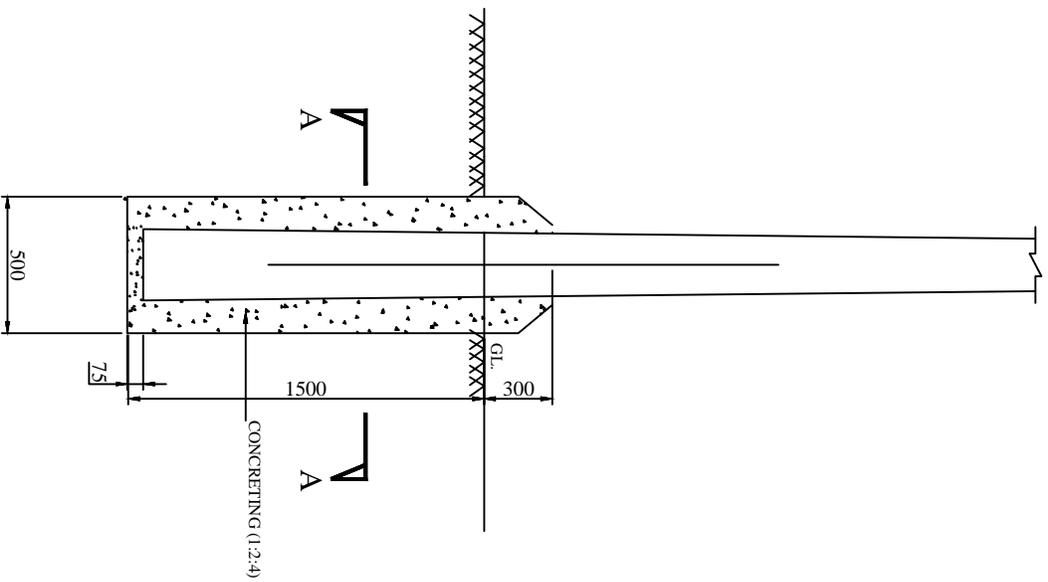
TITLE: **SUSPENSION ASSEMBLY**
(Cable Range 70-95 sq. mm)

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

GENERAL TOLERANCE ON DIMENSIONS: ± 0.5%

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

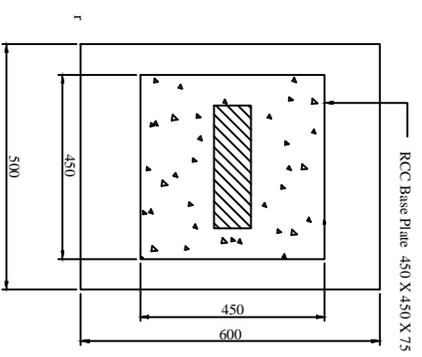
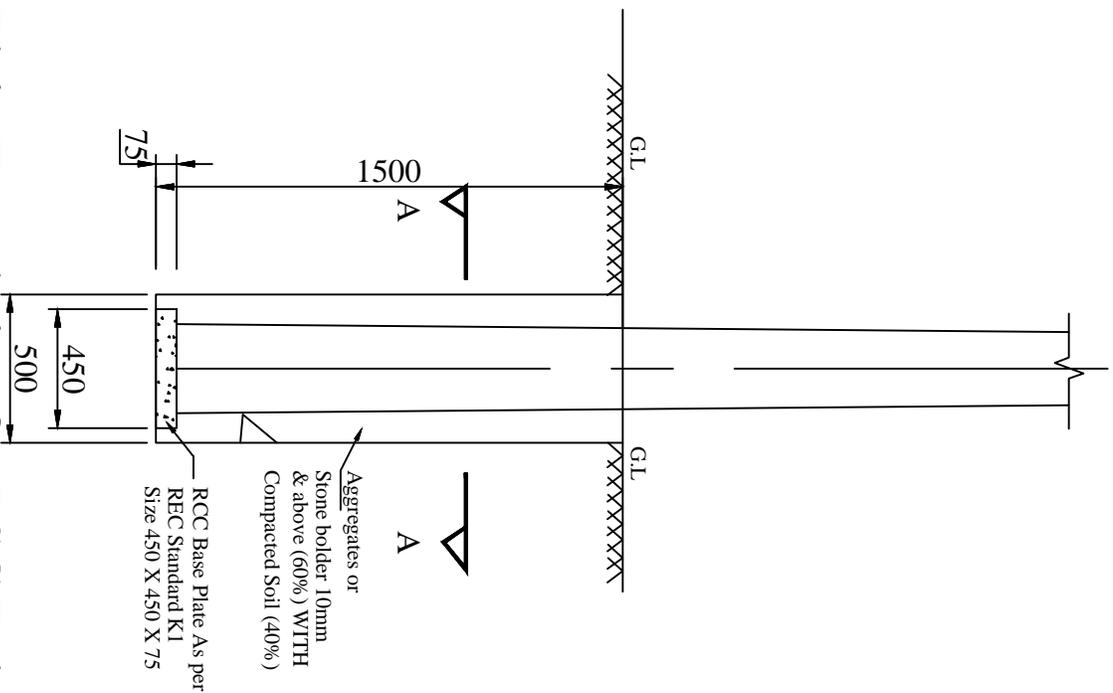
Concrete Foundation For PSC Poles

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

		Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)			
TITLE: CONCRETE (PCC) FOUNDATION DETAILS FOR PSC POLES			
SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
AS MTS	REC/RDSS/GEN/01	1 OF 1	0

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

Plain Foundation for PSC Pole



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).

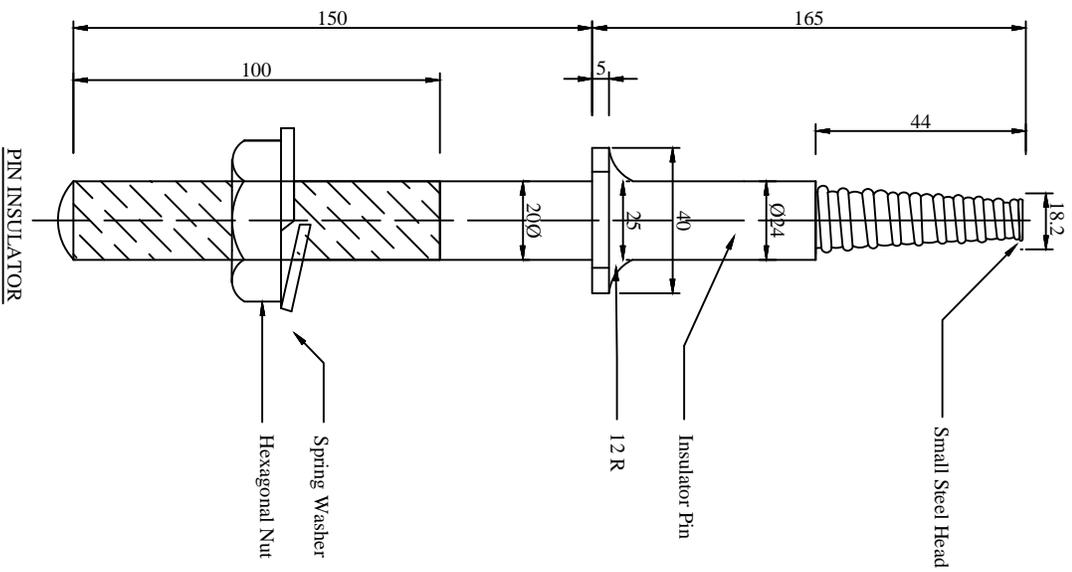
FOR TENDER PURPOSE ONLY

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

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: FOUNDATION DETAILS OF PSC/PCC Pole
 FILLING WITH EXCAVATED SOIL, BRICKBATTING & COMPACTION)

SIZE/SCALE: A3 MTS
 Dwg. No.: REC/RDSS/GEN/02
 SHT. NO.: 1 OF 1
 REV. NO.: 0



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



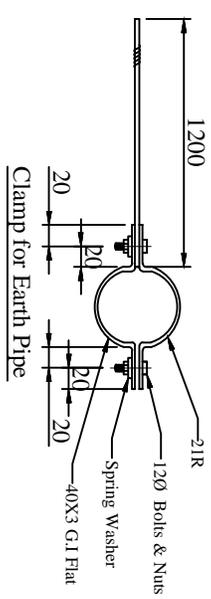
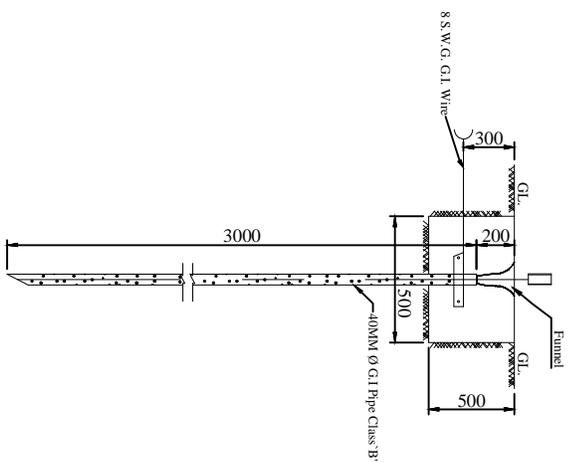
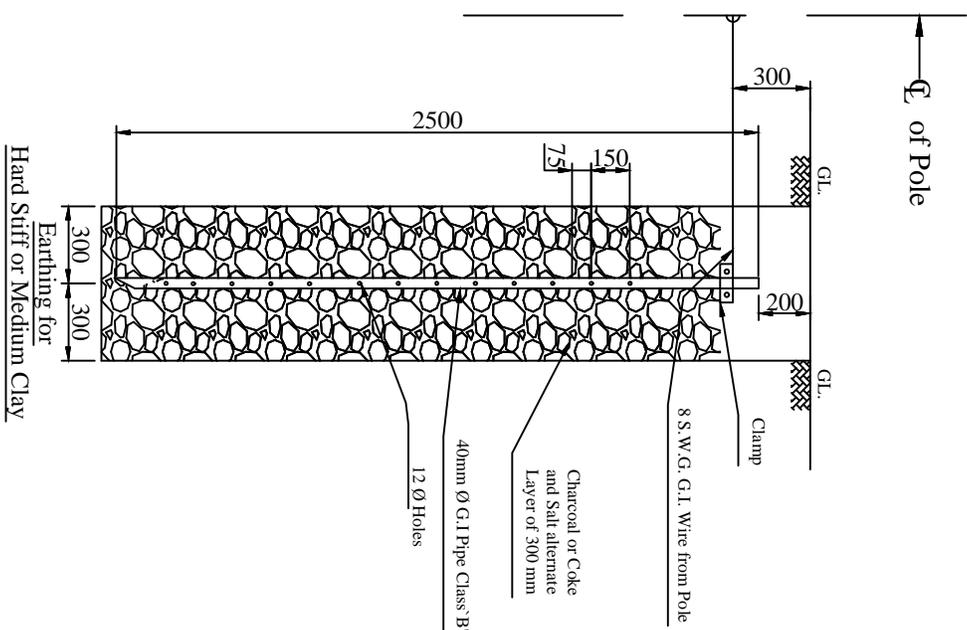
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: PIN INSULATOR

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

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		GI 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



Earthing For Ordinary Soil where Pipe could be Hammered

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM.
 2. EARTH TERMINAL OF G.I STRIP 40x3 WITH 2 NOS. 120 STUDS.
 3. MANUFACTURING TOLERANCE: UPTO 50mm - ± 5%
51 TO 100mm - ± 4%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 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

FOR TENDER PURPOSE ONLY

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

भारत की REC
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

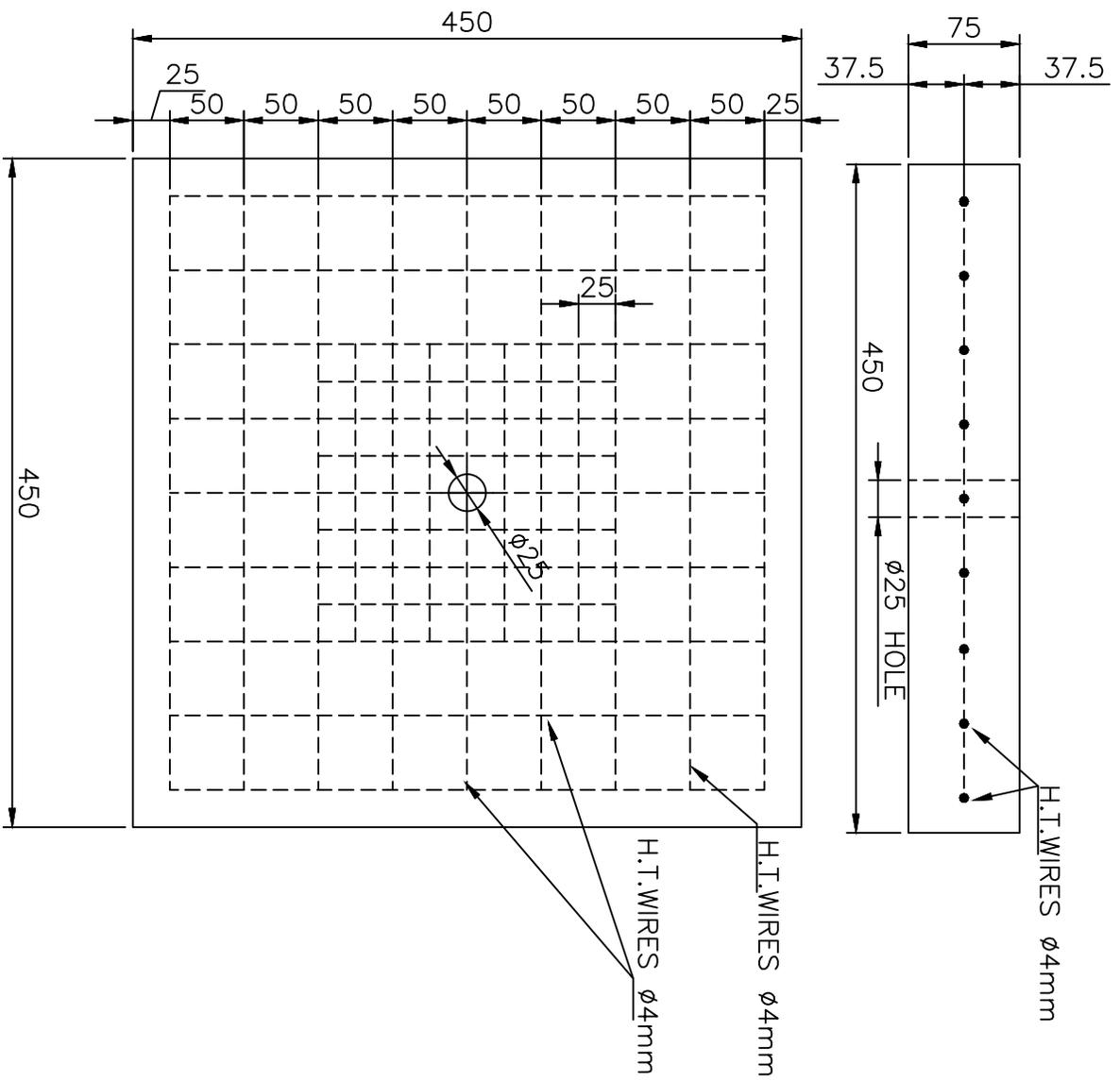
TITLE: PIPE TYPE EARTHING

SIZE SCALE: DRG. NO. **AS NTS**

PROJECT: REC/RDSS/GEN/04

SHT. NO. 1 OF 1

REV. NO. 0



H.T. WIRES Ø4mm

H.T. WIRES Ø4mm

H.T. WIRES Ø4mm

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



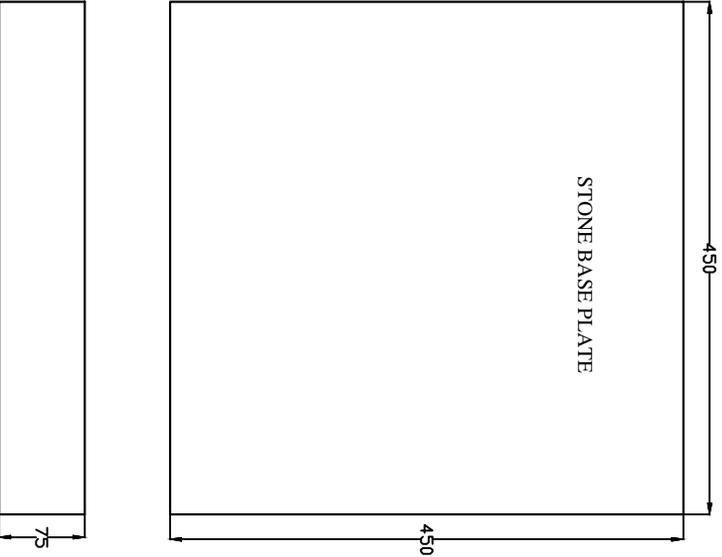
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

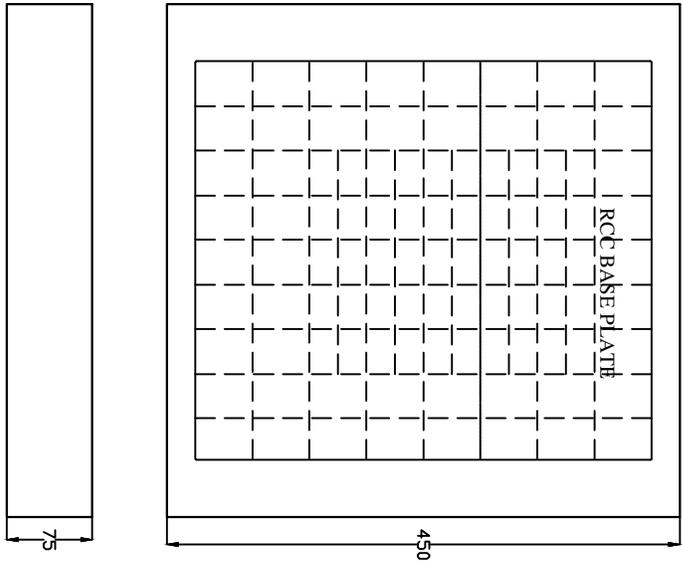
TITLE: RCC BASE PAD FOR PCC POLE

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



50
25
HT Wire 4 mm²



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

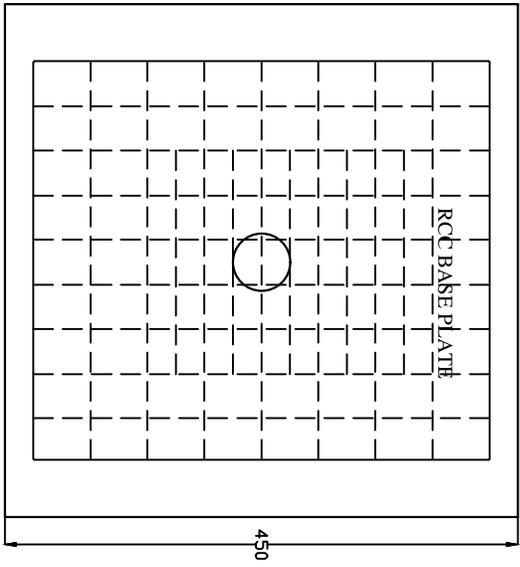
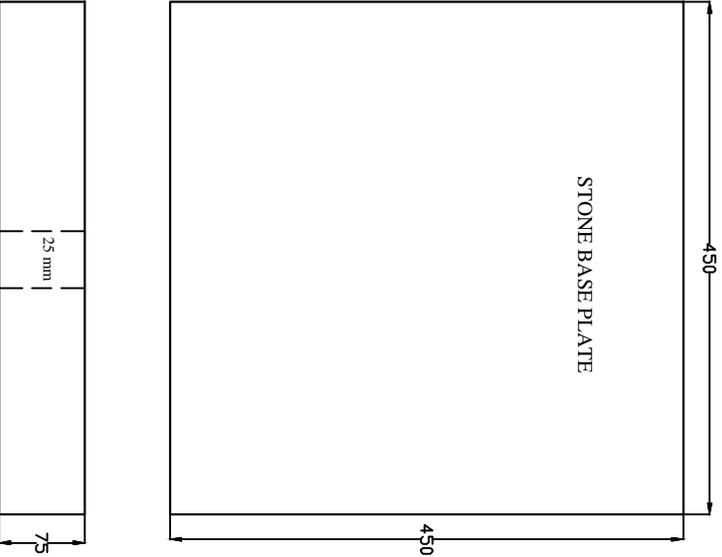


Rural Electrification Corporation Ltd.

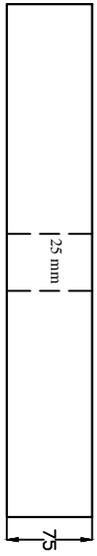
Revamped Distribution Sector Scheme (RDSS)

DRAWING FOR STONE/RCC BASE PLATE FOR STAY SET

ROD NO.	DESIGNED	CHECKED	APPROVED	DATE	PROJECT
SIZE/SCALE	PRJ. NO.				SHT. NO.
AS INTS	REC/RDSS/GEN/05B				1 OF 1
					REV. NO.
					0



50
25
25 mm
HT Wire 4 mm



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

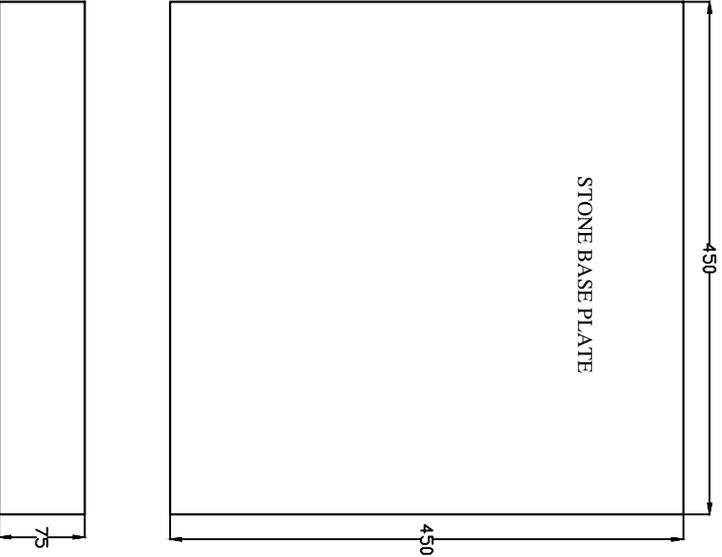
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

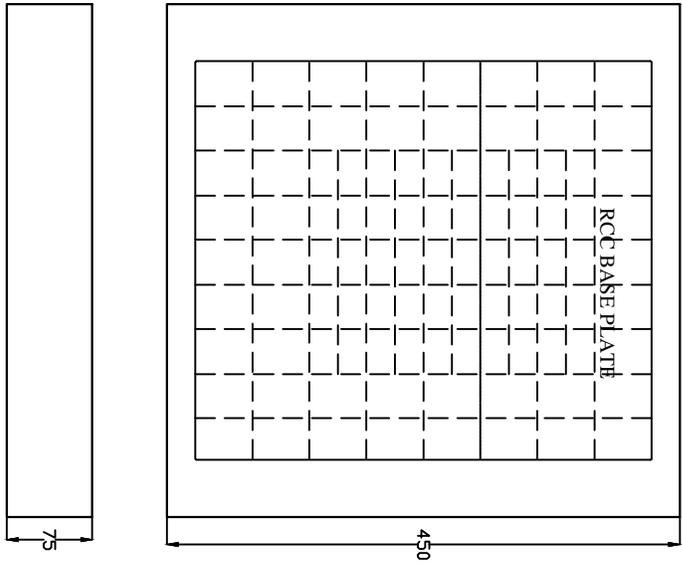
All dimensions are in mm.

ROD				
DESIGNER	CHECKER	APPROVER	DATE	PROJECT

SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
AS NOTED	REC/RDSS/GEN/5C	1 OF 1	0



50
 25
 25 mm
 HT Wire 4 mm²



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

TITLE DRAWING FOR STONE/RCC BASE PLATE FOR STAY SET

ROD	DESIGNED	CHECKED	APPROVED	DATE	PROJECT	SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
						AS NOTED	REC/RDSS/GEN/S/D	1 OF 1	0

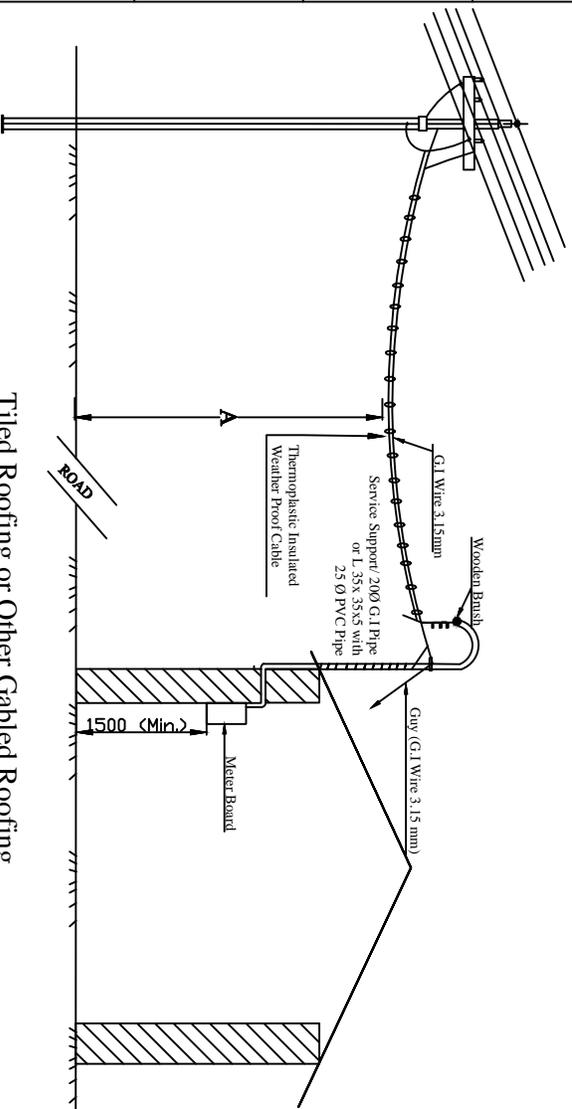
Type & Size of Service Cable

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

Minimum Ground Clearance

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

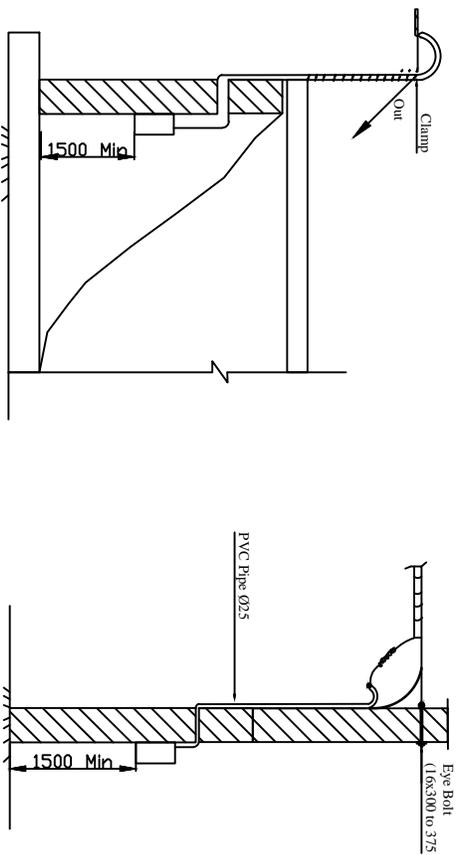
Tiled Roofing or Other Gabled Roofing



Notes:

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 35x35x5 with 25Ø PVC Pipe as per IS: 2509-1963 may be used.
4. Clamps to be made from 40x3 M.S. Flat

FOR TENDER PURPOSE ONLY



Single Storey-Flat/R.C.C Roofing

Multi Storey or Single Storey Building with High Roofing



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

LT Service Connection Single Phase

SIZE SCALE

A3 NTS

DWG. NO.

REC/RDSS/GEN/06

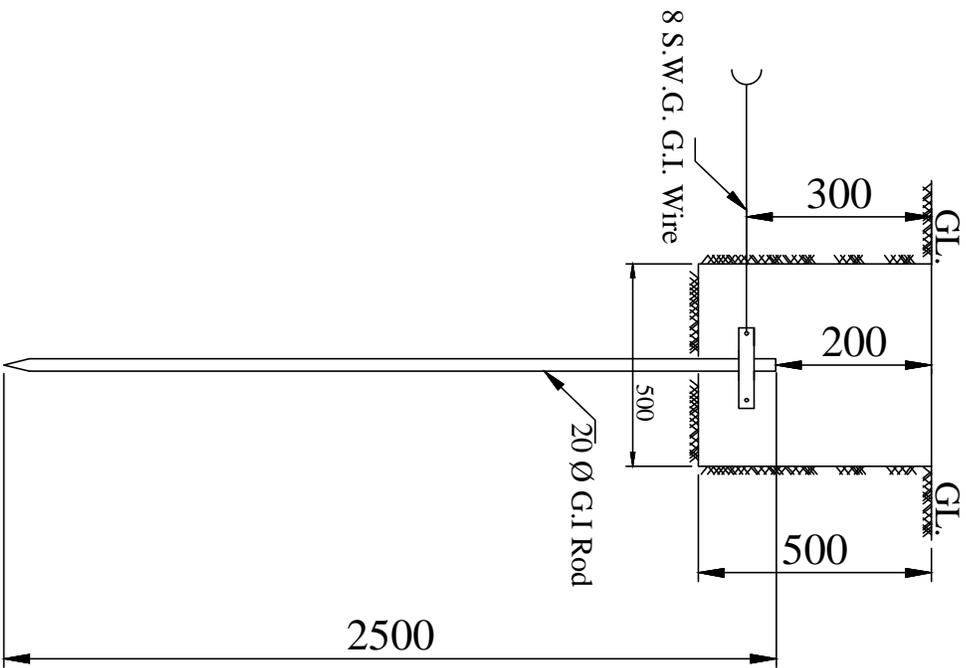
SHT. NO.

1 OF 1

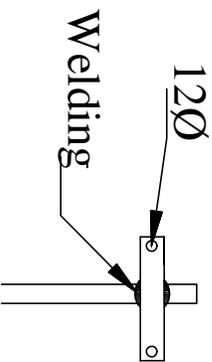
REV. NO.

0

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



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 - ± 5%
 51 TO 100mm - ± 4%
 101 TO 300mm - ± 3%
 ABOVE 300mm - ± 2%
 4. CLAMP IS TO BE WELDED TO SPIKE.
 5. THE WHOLE ASSEMBLY IS TO BE HOT DIP GALVANISED (IS: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



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: SPIKE TYPE EARTHING FOR NORMAL SOIL

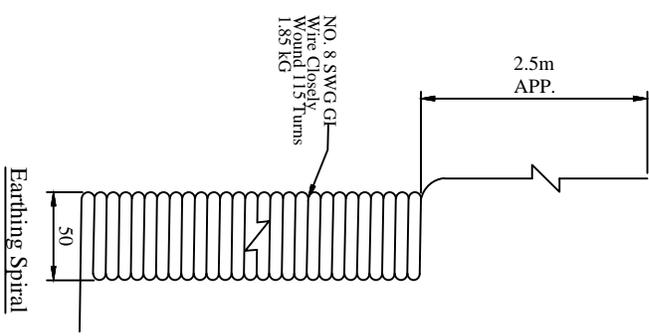
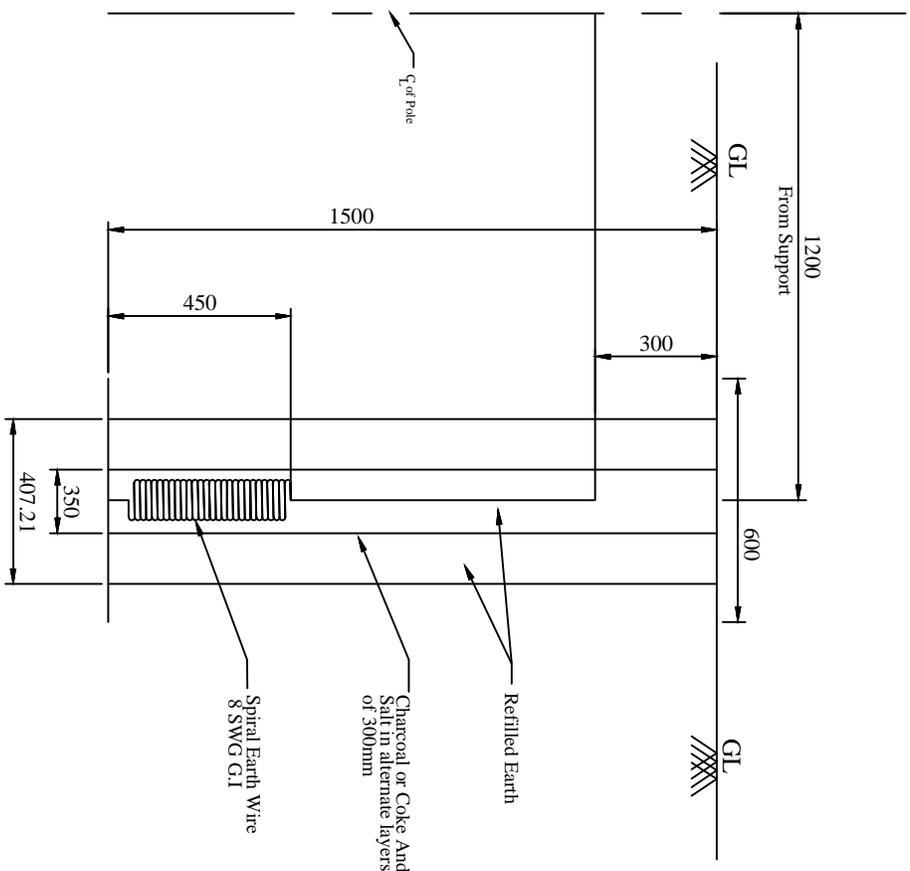
SIZE SCALE: DRG. NO.

3 NTS REC/RDSS/GEN/07

SHT. NO. 1 OF 1
REV. NO. 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 : ±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

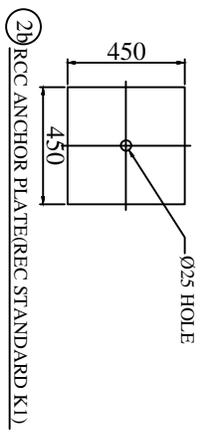
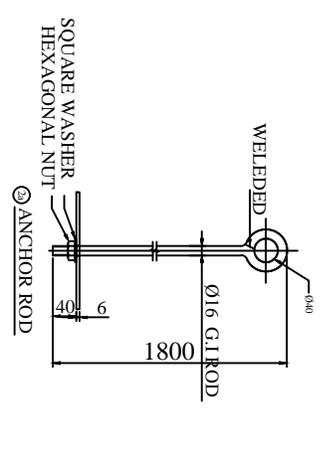
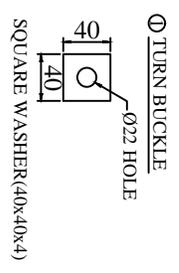
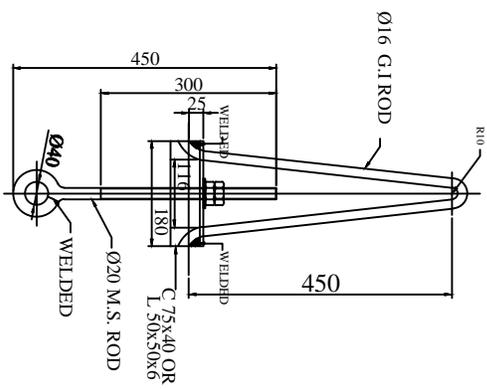
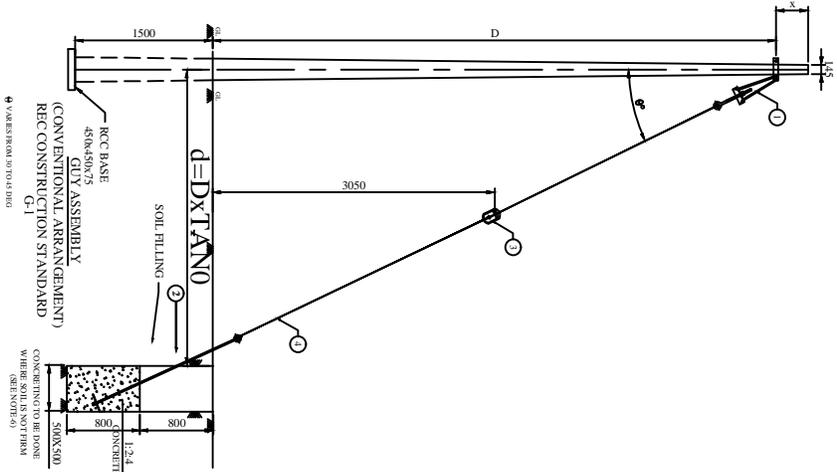
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: SPIRAL EARTHING DETAILS

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	COMMON FOR ALL PROJECT
R0					

SIZE	SCALE	DWG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/GEN/08	1 OF 1	0



STAY INSULATOR MAKE-OFF



END MAKING OF GUY WIRE

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 CONFORM 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

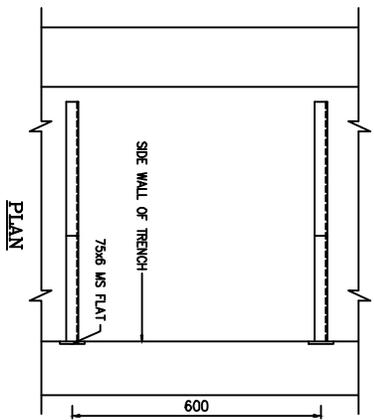
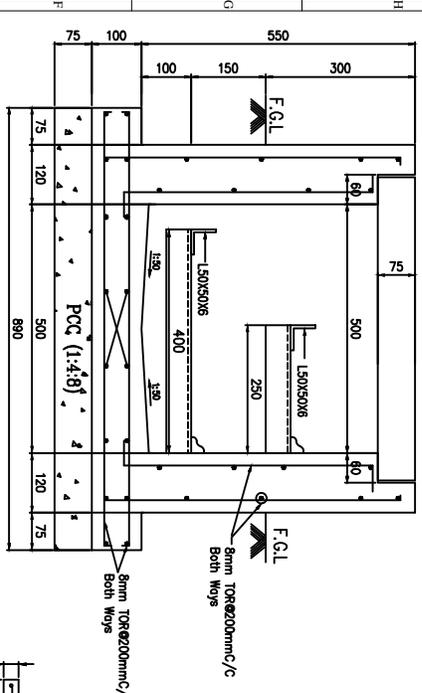
FOR TENDER PURPOSE ONLY



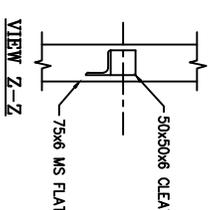
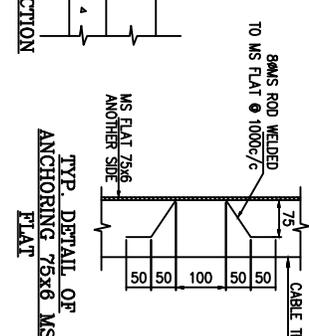
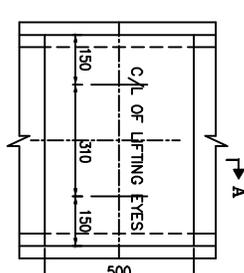
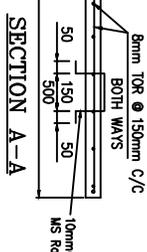
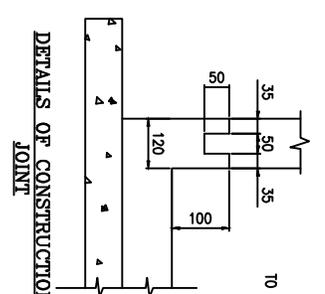
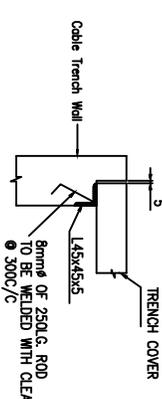
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

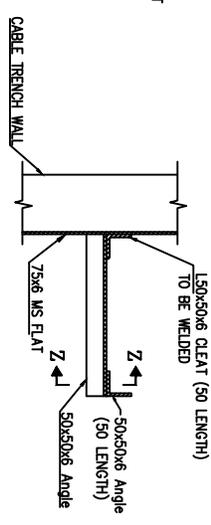
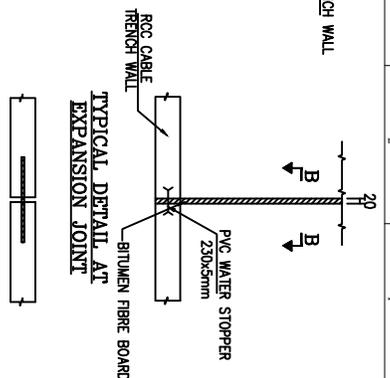
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						AS NTS	REC/RDSS/GEN/09B	1 OF 1	0



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

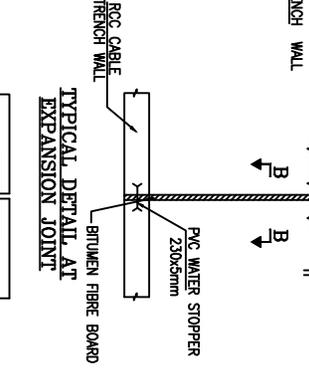
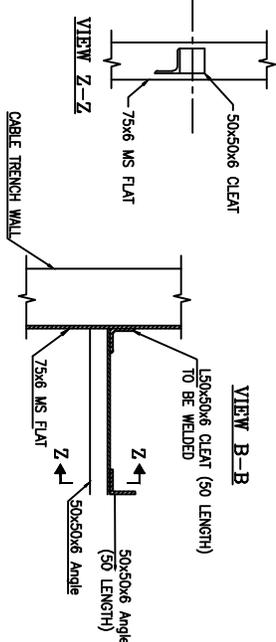
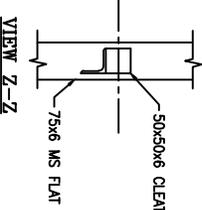
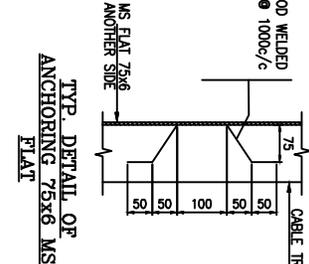
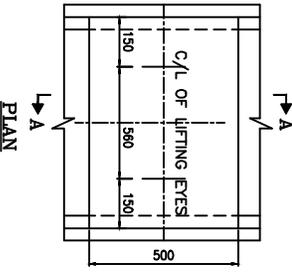
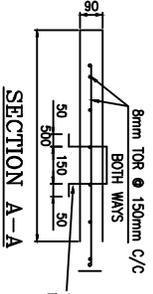
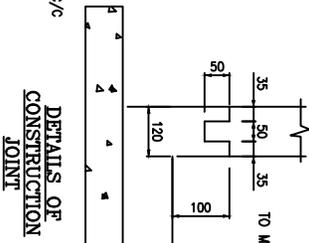
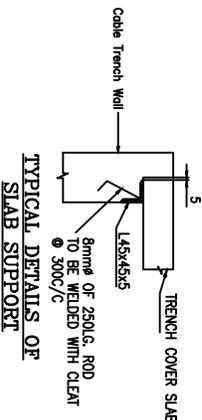
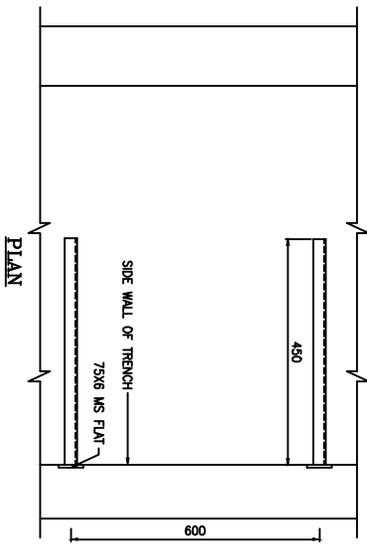
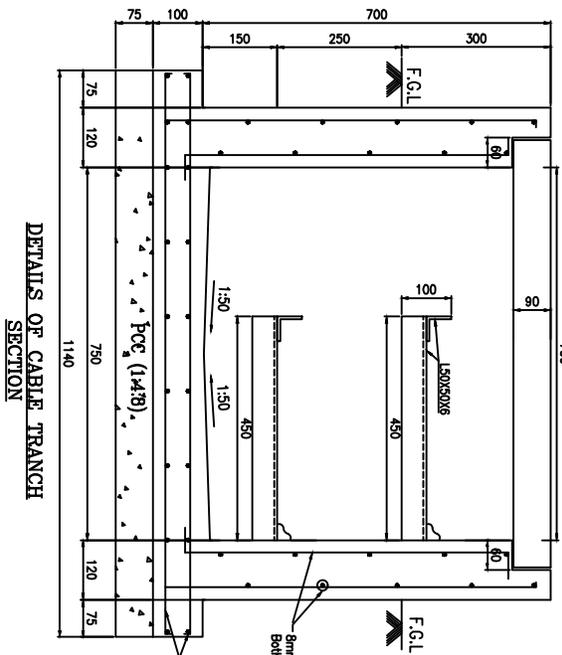


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DETAILS OF 500MM WIDE CABLE TRENCH

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/ RDSS /GEN/11A	1 OF 1	0



- 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

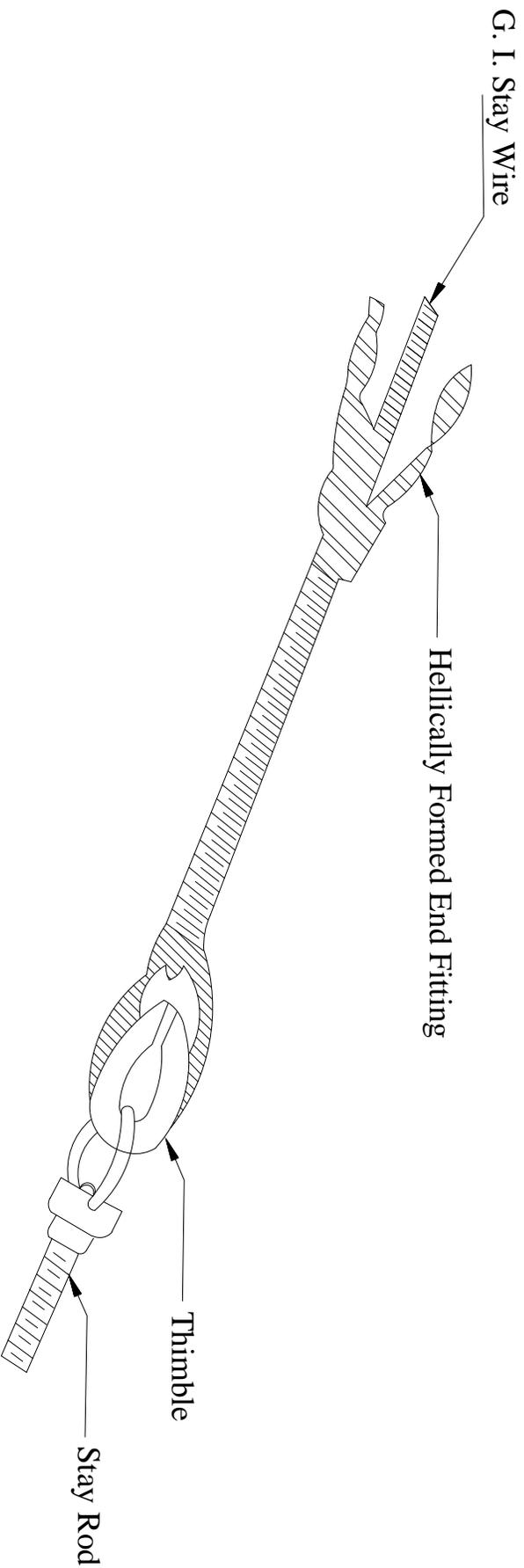
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

DETAILS OF 750MM WIDE CABLE TRENCH

R0	PREPARED	CHECKED/APPROVED	DATE	PROJECT	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

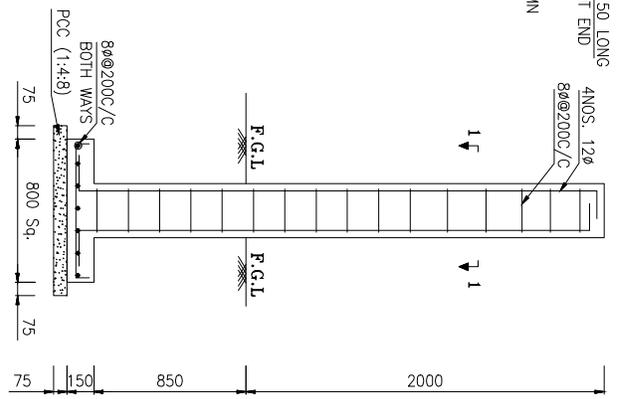
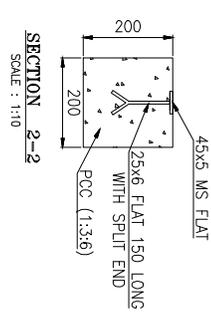
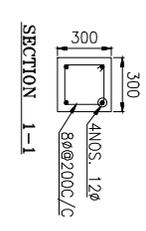
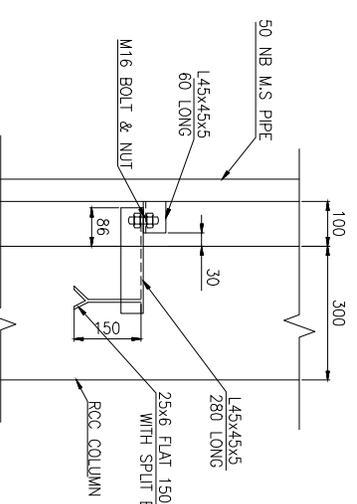
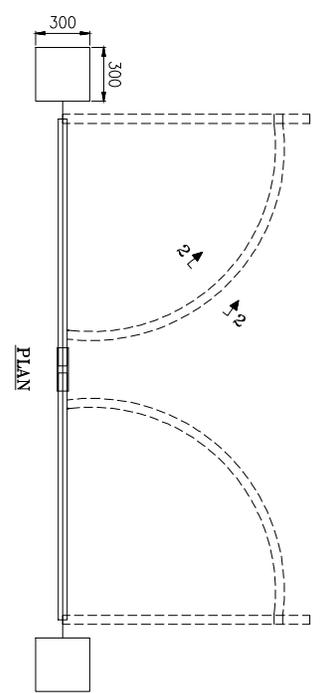


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

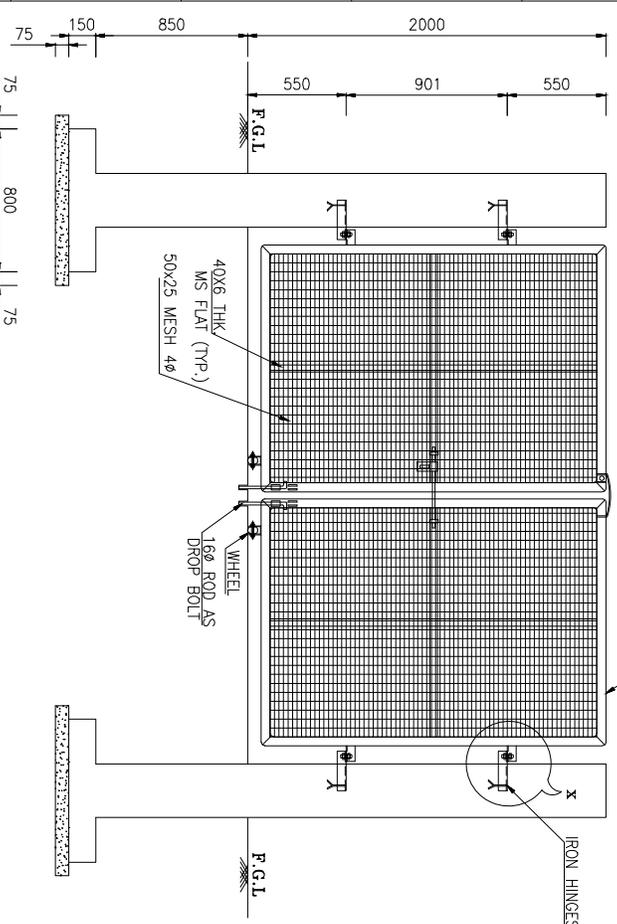
TITLE: Guy -End Assembly
(Using Hellically Formed Fitting)

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



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM.
 2. GATE FITTING SHALL BE AS PER I.S.
 3. M20 GRADE CONCRETE SHALL BE USED.
 4. Fe 415 GRADE STEEL SHALL BE USED.

DETAILS OF M.S. GATE



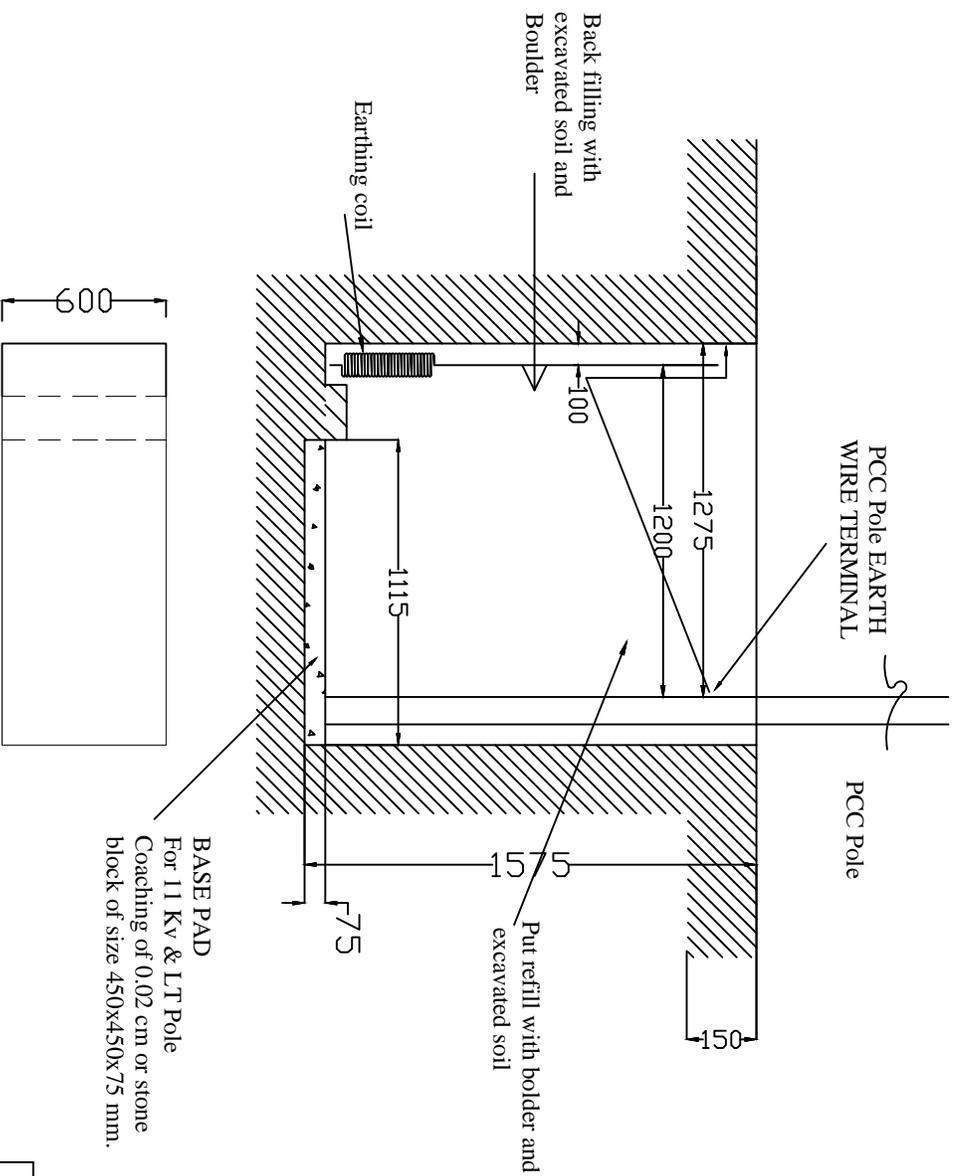
FOR TENDER PURPOSE ONLY



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

DETAILS OF M.S. GATE

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/GEN/14	1 OF 1	0



All dimensions are in mm.

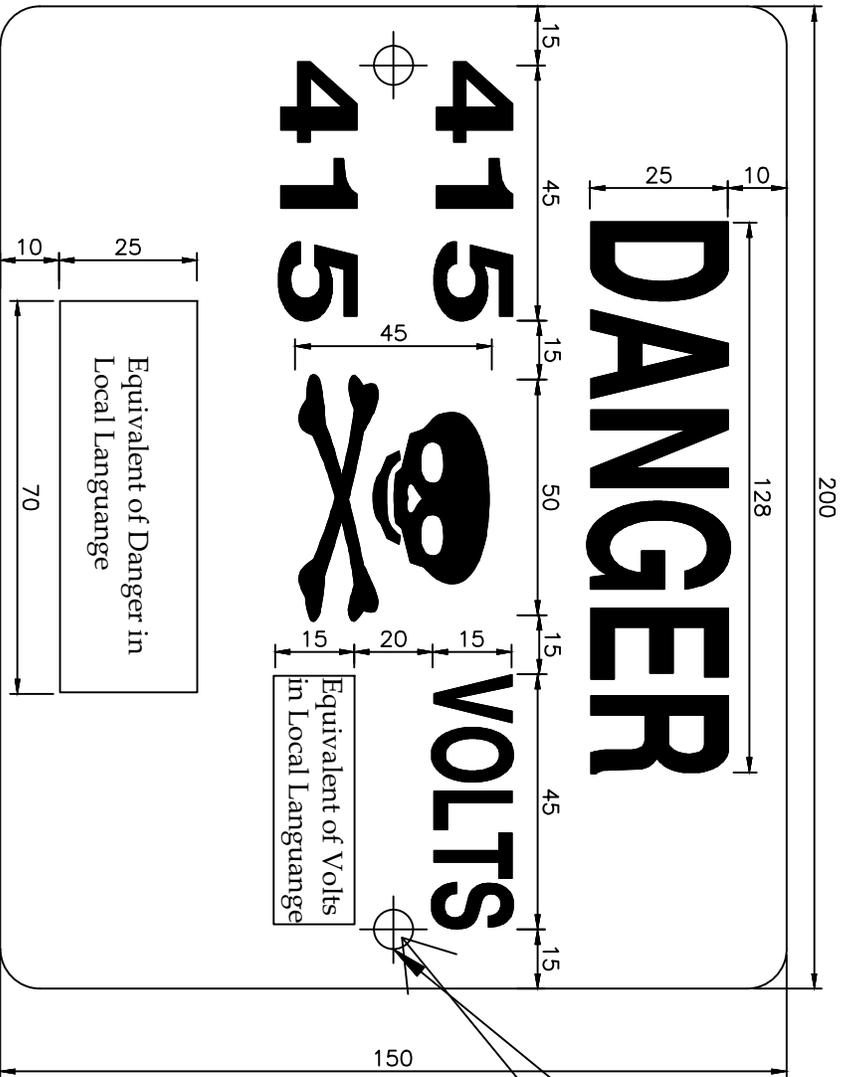
FOR TENDER PURPOSE ONLY

REC **राज्य विद्युत निगम**
 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	SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
R0						A3 MTS	REC/RDSS/GEN/15	1 OF 1	0



All Dimensions are in mm unless otherwise mentioned

FOR TENDER PURPOSE ONLY

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



Rural Electrification Corporation Ltd.

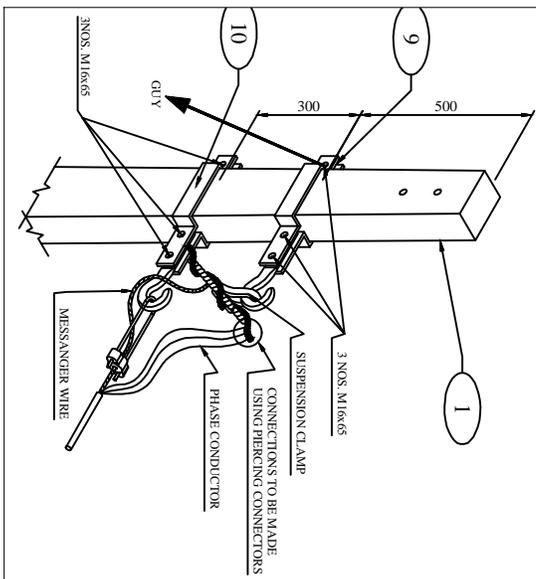
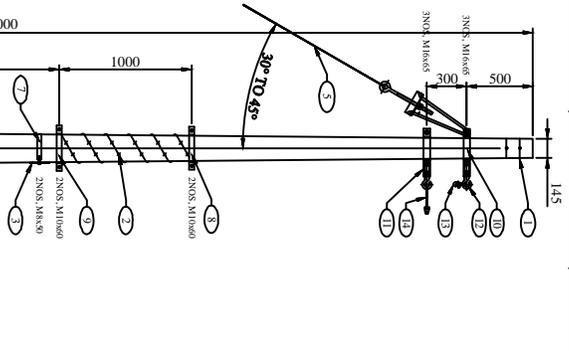
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

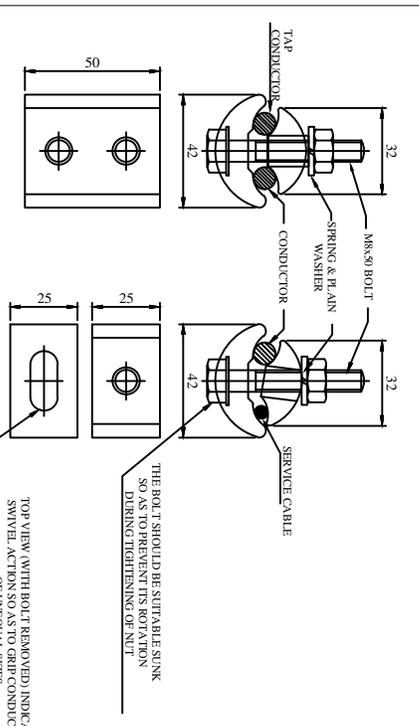
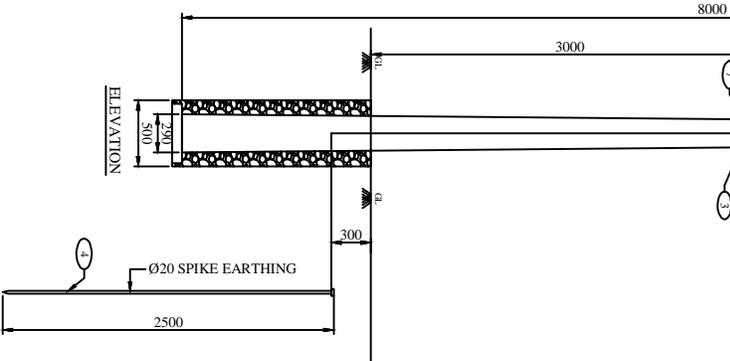
TITLE

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.	NESSCL. BBE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	001	8mm 200kg. PSC POLE	1 NO.	REC-XII Plan-GEN-001A
2	003	BARBED WIRE	3.5 MTR	REC-XII Plan-LT-016
3	022	43KV DANGER BOARD	1 NO.	REC-XII Plan-GEN-012
4	005	SPIKE EARTHING	1 SET	
5	006	STAY SET ARRANGEMENT	1 SET	
6	814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-015 (SHT-2)
7	816	CLAMP FOR DANGER BOARD	1 SET	REC-XII Plan-LT-015 (SHT-2)
8	817	TOP CLAMP TOP ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-015 (SHT-2)
9	818A	BOTTOM CLAMP TOP ANTI CLIMBING DEVICE	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
10	818B	CLAMP FOR EYE HOOK	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
11	019	CLAMP FOR EYE HOOK	2 NOS.	REC-XII Plan-LT-015 (SHT-2)
12	026	EYE HOOK	1 SET	REC-XII Plan-LT-015 (SHT-2)
13	025	DEAD-END CLAMP	1 SET	REC-XII Plan-LT-015 (SHT-2)
		NUTS & BOLTS	AS REQD.	REC-XII Plan-LT-015 (SHT-2)



TYPE 'A'
(SUITABLE FOR TAPPING CONNECTIONS FOR LINE TO LINE TAPPING)

TYPE 'B'
(SUITABLE FOR TAPPING OF SERVICE CONNECTIONS)

REC CONSTRUCTION STANDARD E-38

THE BOLT SHOULD BE SUITABLE SUNK SO AS TO PREVENT ITS ROTATION DURING TIGHTENING OF NUT

TOP VIEW (WITH BOLT REMOVED) INDICATE SWIVEL ACTIONS SO AS TO GET CONDUCTOR OF UNEQUAL SIZES

* PLEASE NOTE THAT UD CONNECTOR SHALL BE USED FOR MESSENGER WIRE AND PIERCING CONNECTOR SHALL BE USED FOR AB CABLE.
*(PIERCING CONNECTOR CONNECTION DETAILS SHOWN ABOVE)
* PLEASE REFER MANUFACTURER'S DRAWING SUBMITTED SEPARATELY

- 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:SP6 PART-1 ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY

REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGN	CHKD.	CLEARED BY	APPD.	DATE
R0								

REC 3ART 3ART

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SCALE: NTS

SIZE: A3

DRG. NO: REC/RDSS/LT-0H/02A

REV. NO: 0

SHT. NO: 1 OF 2

SR. NO.	DESCRPTION	SECTION	MATERIAL	LENGTH MM	KG./MTR.	QTY.	TOTAL Wt. KG.
1	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO.	0.258
2	CLAMP FOR EYE HOOK	50x8	M.S.	430-430	3.14	1 SET	2.7
3	CLAMP FOR EYE HOOK	50x8	M.S.	434-434	3.14	1 SET	2.726
4	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395-395	1.60	1 SET	1.264
5	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413-413	1.60	1 SET	1.322
	SPRINE	6mm ROD	M.S.	125	0.22	56 NOS.	1.54
TOTAL							9.98

BILL OF MATERIAL

SR. NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./MTR.	QTY.	TOTAL Wt. KG.
5	NUTS & BOLTS	M16		65	0.164KG/NO.	6 NOS.	0.984
6	NUTS & BOLTS	M10		60	0.058KG/NO.	4 NOS.	0.230
7	NUTS & BOLTS	M8		50	0.068KG/NO.	2 NOS.	0.100
8	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.	6 NOS.	0.054
9	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.	4 NOS.	0.012
10	SPRING WASHERS	M8		3.5 THK.	0.002KG/NO.	2 NOS.	0.004
11	PLAIN WASHER	M16		3 THK.	0.015KG/NO.	6 NOS.	0.090
12	PLAIN WASHER	M10		3 THK.	0.005KG/NO.	4 NOS.	0.020
13	PLAIN WASHER	M8		3 THK.	0.004KG/NO.	2 NOS.	0.008
TOTAL							1.564

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:SP6 PART-1 ALL CHANNELS SHALL BE ISJC CHANNELS.

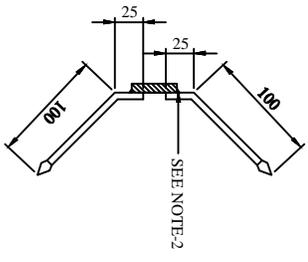
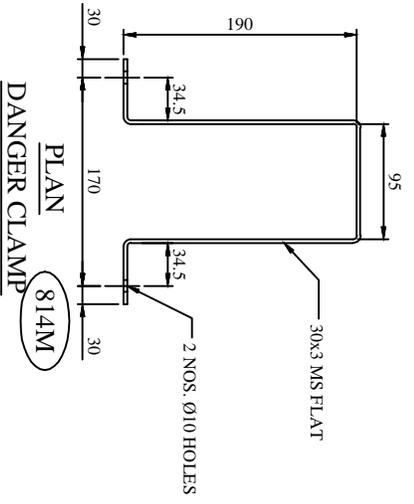
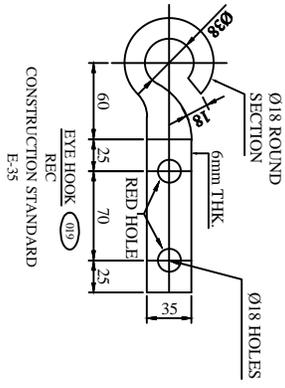
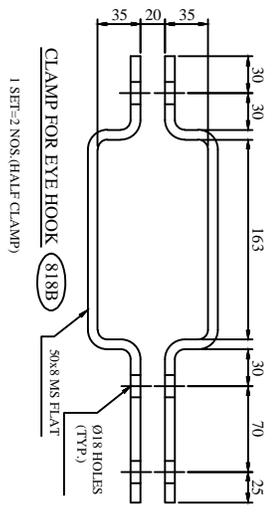
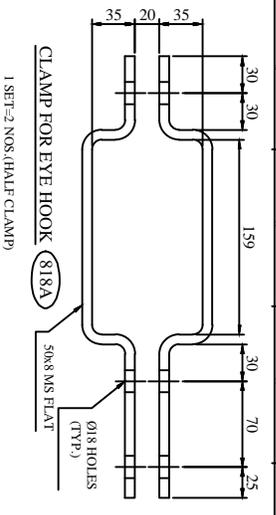
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

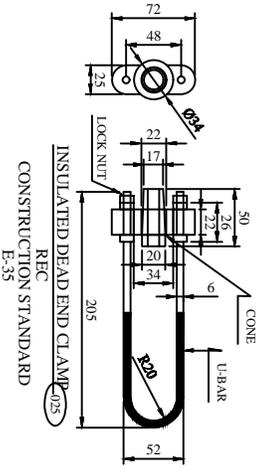
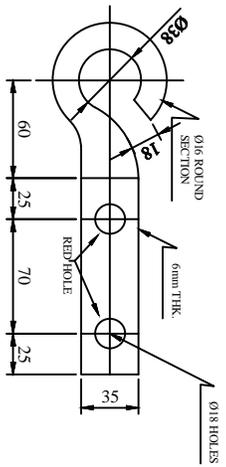
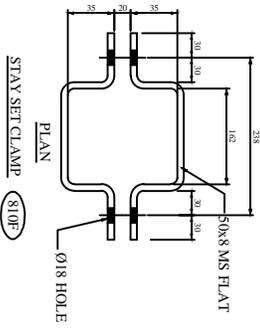
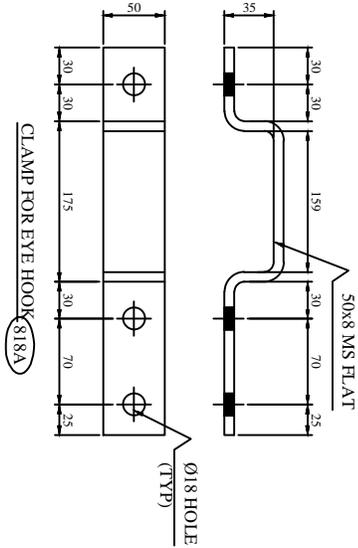
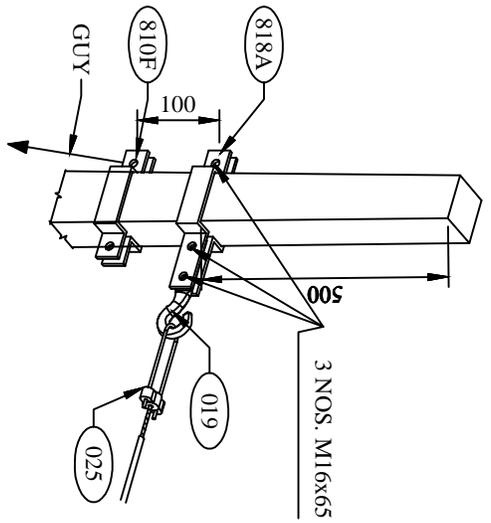
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

DATE	VENDOR DRG. NO.	REV. NO.
SCALE NTS		0
SIZE A3	DRG. NO. REC/RDSS/LT-OH/02B	SHT. NO. 2 OF 2



REV. NO.	DATE	DESCRIPTION	DRAWN	DESIGN	CHKD.	CLEARED BY	APPD.	DATE
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EYE HOOK (019)
REC
CONSTRUCTION STANDARD
E-35

- 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 ONLY.
 - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:589 PART-1. ALL CHANNELS SHALL BE IS:IC CHANNELS.

ERE CODE	DESCRIPTION	QTY	REF. DRG. NO.
001	50X8 MS F.P.C POLE	1 NO.	REC-XII P&G-001/A
003	BARBED WIRE	3.5 MTR	
022	45X3 DANGER BOARD	1 NO.	REC-XII P&G-012
005	SPRNG EARTHING	1 SET	REC-XII P&G-012
008	STAY SET ARRANGEMENT	1 SET	REC-XII P&G-007
810F	CLAMP FOR DANGER BOARD	1 NO.	REC-XII P&G-1T-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII P&G-1T-007
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII P&G-1T-007
818A	CLAMP FOR STAY SET	1 SET	REC-XII P&G-1T-018
818F	CLAMP FOR EYE HOOK	1 SET	REC-XII P&G-1T-018
019	EYE HOOK	1 NO.	
025	DEAD END CLAMP	1 NO.	REC-XII P&G-1T-014
	NUTS & BOLTS	AS REQD	REC-XII P&G-1T-014

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./MTR.	QTY.	TOTAL WT. KG.
810F	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.291	1 NO.	0.28
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395	1.60	2 NOS.	1.264
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413	1.60	2 NOS.	1.322
818F	CLAMP FOR STAY SET	50x8	M.S.	308	3.14	2 NOS.	2.311
	SPRNG	6mm ROD	M.S.	125	0.22	26 NOS.	1.58
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14	2 NOS.	2.700
019	EYE HOOK		M.S.			1 NO.	
025	DEAD END CLAMP		M.S.			1 NO.	
	NUTS & BOLTS	M16		65	0.168 (GNS)	4 NOS.	0.670
	NUTS & BOLTS	M10		60	0.088 (GNS)	4 NOS.	0.350
	NUTS & BOLTS	M8		60	0.068 (GNS)	2 NOS.	0.136
	SPRNG WASHERS	M16		3.3 THK.	0.098 (GNS)	5 NOS.	0.495
	SPRNG WASHERS	M10		3.3 THK.	0.068 (GNS)	4 NOS.	0.272
	SPRNG WASHERS	M8		3.5 THK.	0.028 (GNS)	3 NOS.	0.084
	PLAIN WASHER	M16		3 THK.	0.018 (GNS)	3 NOS.	0.054
	PLAIN WASHER	M10		3 THK.	0.008 (GNS)	4 NOS.	0.032
	PLAIN WASHER	M8		3 THK.	0.004 (GNS)	2 NOS.	0.008
	TOTAL					10.941	

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

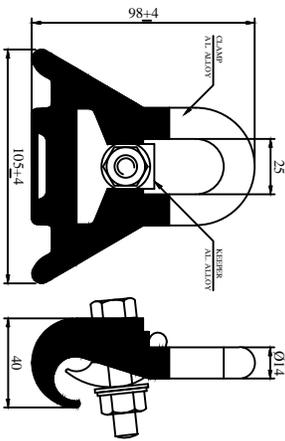
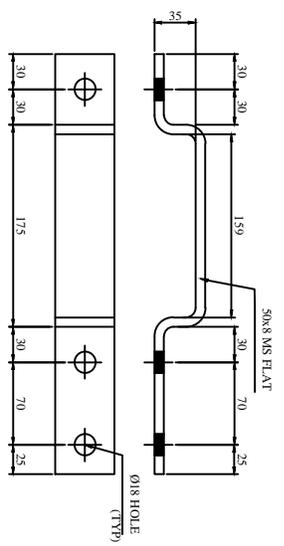
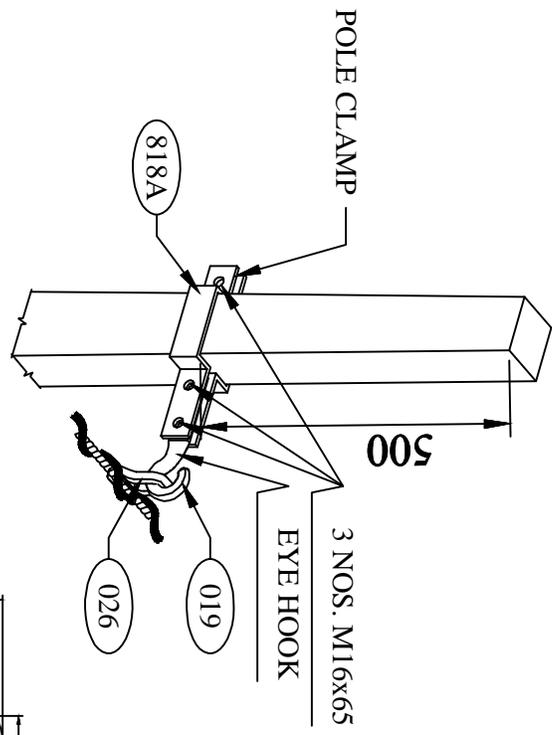
TITLE: GA OF LT LINE FORMATION ON SINGLE 8M/200 KG PSC POLE (DEAD END) WITH LT AB CABLE

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

SIZE SCALE: DRG. NO. REC/RDSS/LT-OH/03

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

ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	8mm 200kg RSC POLE	1 NO.	REC-XII Plan-GEN-001A
2	BARBED WIRE	3.5 MTR	
3	43V DANGER BOARD	1 NO.	REC-XII Plan-GEN-012
4	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-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 FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-001
818A	CLAMP FOR EYE HOOK	1 SET	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.	



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

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./MTR.	QTY.	TOTAL Wt. KG.
814M	CLAMP FOR DANGER BOARD	3x8.3	M.S.	610	0.701	1 NO.	0.428
816	TOP CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	395	1.60	2 NOS.	1.264
817	BOTTOM CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	413	1.60	2 NOS.	1.322
818A	CLAMP FOR EYE HOOK	60mm ROD	M.S.	125	0.22	56 NOS.	1.240
019	EYE HOOK	50x8	M.S.	430	3.14	2 NOS.	2.700
026	SUSPENSION CLAMP					1 NO.	
	NUTS & BOLTS	M16		65	0.164KG/NO.	3 NOS.	0.492
	NUTS & BOLTS	M10		60	0.075KG/NO.	4 NOS.	0.220
	NUTS & BOLTS	M8		60	0.058KG/NO.	2 NOS.	0.100
	SPRING WASHERS	M16		3.5 THK.	0.0095KG/NO.	3 NOS.	0.027
	SPRING WASHERS	M10		3.5 THK.	0.0081KG/NO.	4 NOS.	0.012
	SPRING WASHERS	M8		3.5 THK.	0.0025KG/NO.	2 NOS.	0.004
	PLAIN WASHER	M16		3 THK.	0.0151KG/NO.	3 NOS.	0.045
	PLAIN WASHER	M10		3 THK.	0.0059KG/NO.	4 NOS.	0.020
	PLAIN WASHER	M8		3 THK.	0.0048KG/NO.	2 NOS.	0.000
	TOTAL						8.254

FOR TENDER PURPOSE ONLY



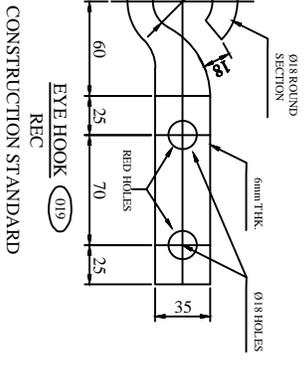
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE/SCALE: Dwg. No. REC/RDSS/LT-OH/04

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

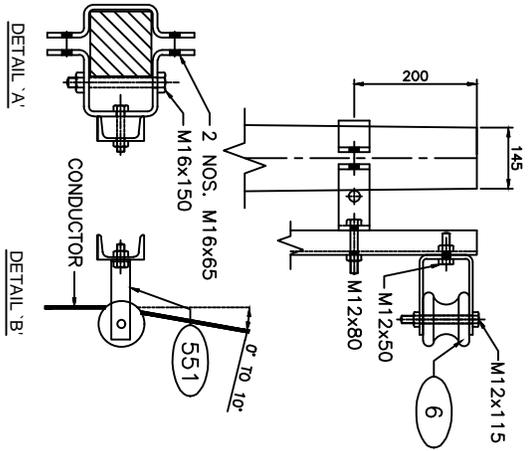
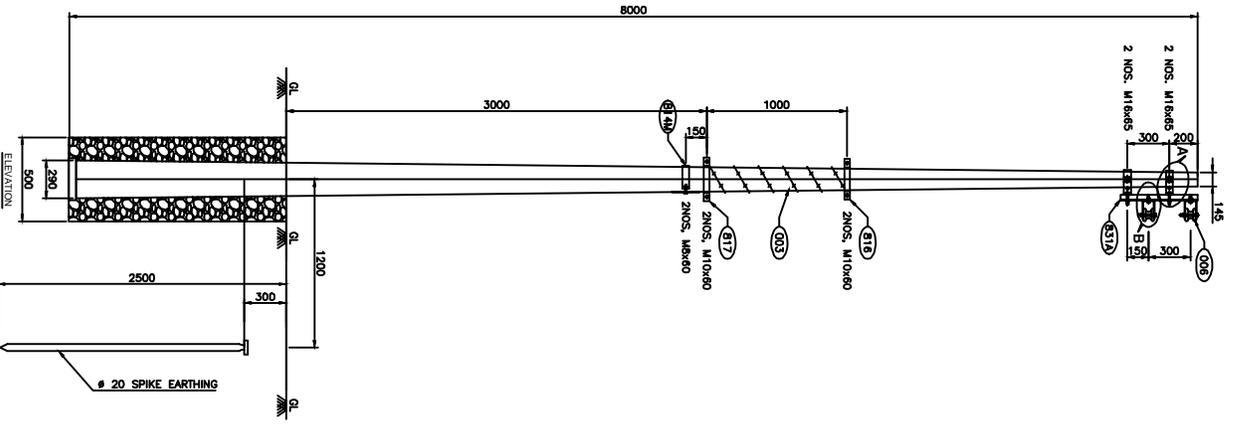


CONSTRUCTION STANDARD
E-35

GENERAL NOTES:
1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
2) MANUFACTURING TOLERANCE:
UP TO 50mm - ± 3%
51 TO 100mm - ± 4%
101 TO 300mm - ± 3%
ABOVE 300mm - ± 2%

- ALL M.S. PARTS SHALL CONFORM TO IS:2062
- ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4739
- ALL THE ITEMS SHALL BE MARKED WITH REJECTION CODE.
- WEIGHT MENTIONED IS FOR PACKING & FORM/LOADING PURPOSE ONLY.
- ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:5196 PART-1.
- ALL CHANNELS SHALL BE IS:IC CHANNELS.

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



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
022	415V DANGER BOARD	1 NO.	
006	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 - ± 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 ISLC CHANNELS.

FOR TENDER PURPOSE ONLY



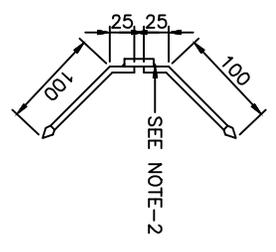
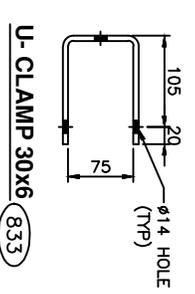
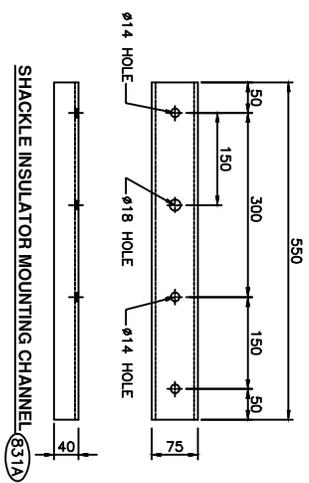
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

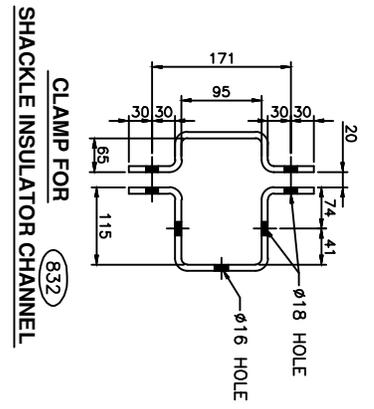
TITLE: GA OF LT LINE VERTICAL FORMATION ON SINGLE 8M/200 KG PSC POLE (IN LINE ARRANGEMENT) 1Ph, 2WIRE

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/07A	1 OF 2	0

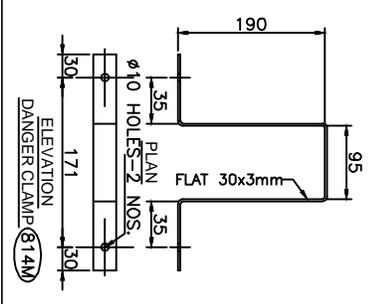
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



6mm ROD SPIKE
SECTION A-A



CLAMP FOR
SHACKLE INSULATOR CHANNEL (832)



6mm ROD SPIKE
SECTION A-A

- 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:202
 - 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:IC CHANNELS.

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 NO.
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.	1415	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	M12		50	0.075	2 NOS.	0.150
NUTS & BOLTS	M10		80	0.055	4 NOS.	0.220
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	6 NOS.	0.054
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

FOR TENDER PURPOSE ONLY

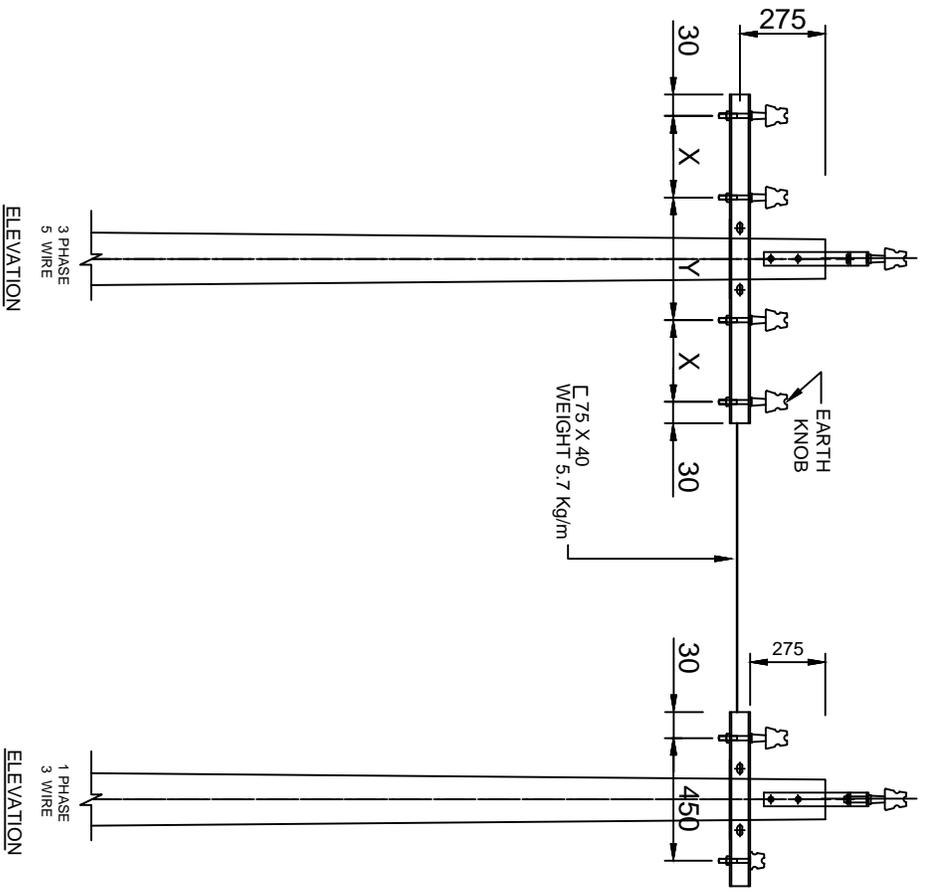
REC अरु इलेक्ट्रिकल
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/7B	2 OF 2	0

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



TANGENT LOCATION
 MAXIMUM SPAN-57 METERS.

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

END VIEW

FOR TENDER PURPOSE ONLY

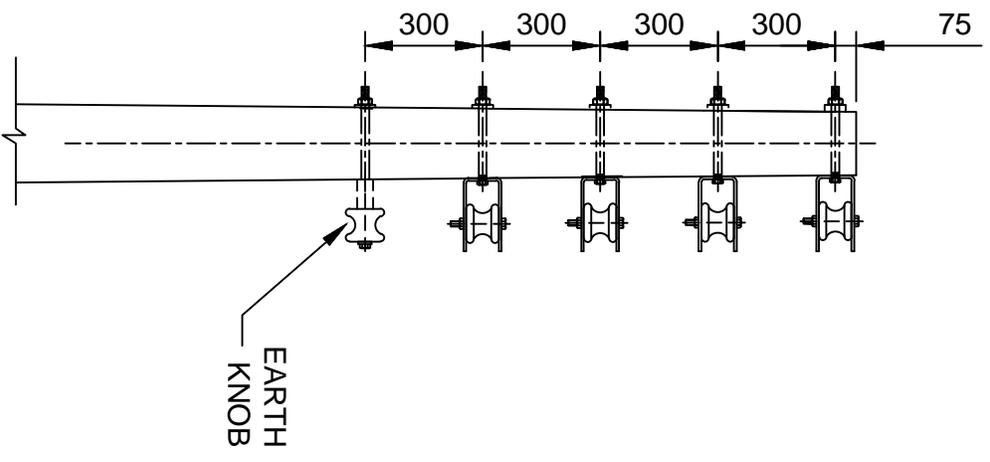


PROJECT: Rural Electrification Corporation Ltd.
 Revamped Distribution Sector Scheme (RDSS)

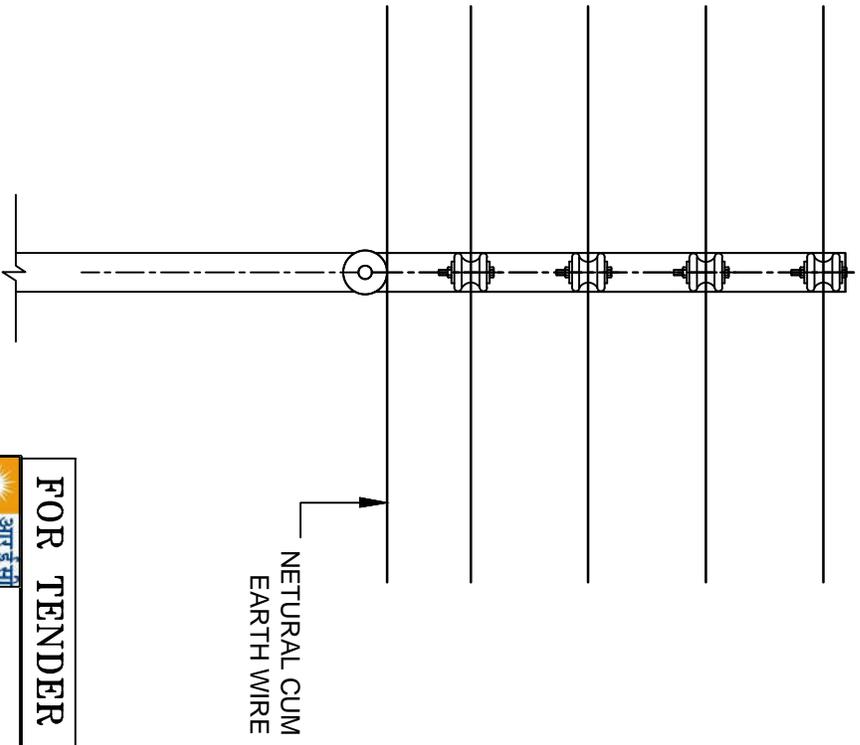
TITLE: 415/240V Conductor Formation and Clearance Horizontal Formation

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

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-OH/08	1 OF 1	0



ELEVATION



END VIEW

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 415 240V LINES CONDUCTOR FORMATION AND CLEARANCES Vertical Formation

SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
AS MTS	REC / RDSS / LT-OH/09	1 OF 1	0

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

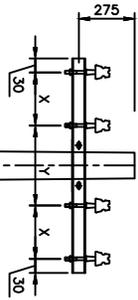


Figure-1
UP TOL 0 for 72.11 mm & 72.59 ACSR
UP TOL 5 for 72.35 mm ACSR

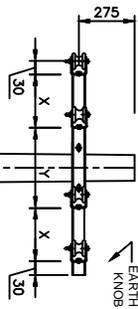


Figure-2
(4.0 TO 3.6)

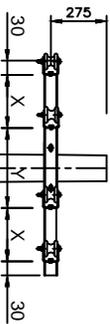


Figure-3
(4.5 TO 6.0)

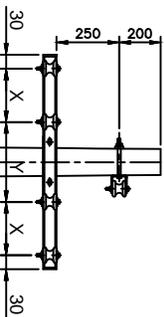


Figure-4
(4.6 TO 9.6)

Horizontal Spacing	
X	Y
300	450

All Dimension are in mm.

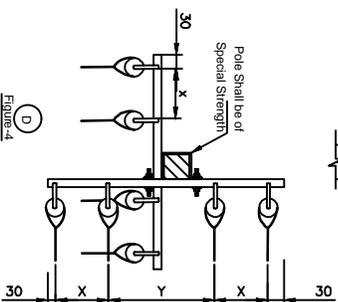


Figure-4
(4.6 TO 9.6)

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

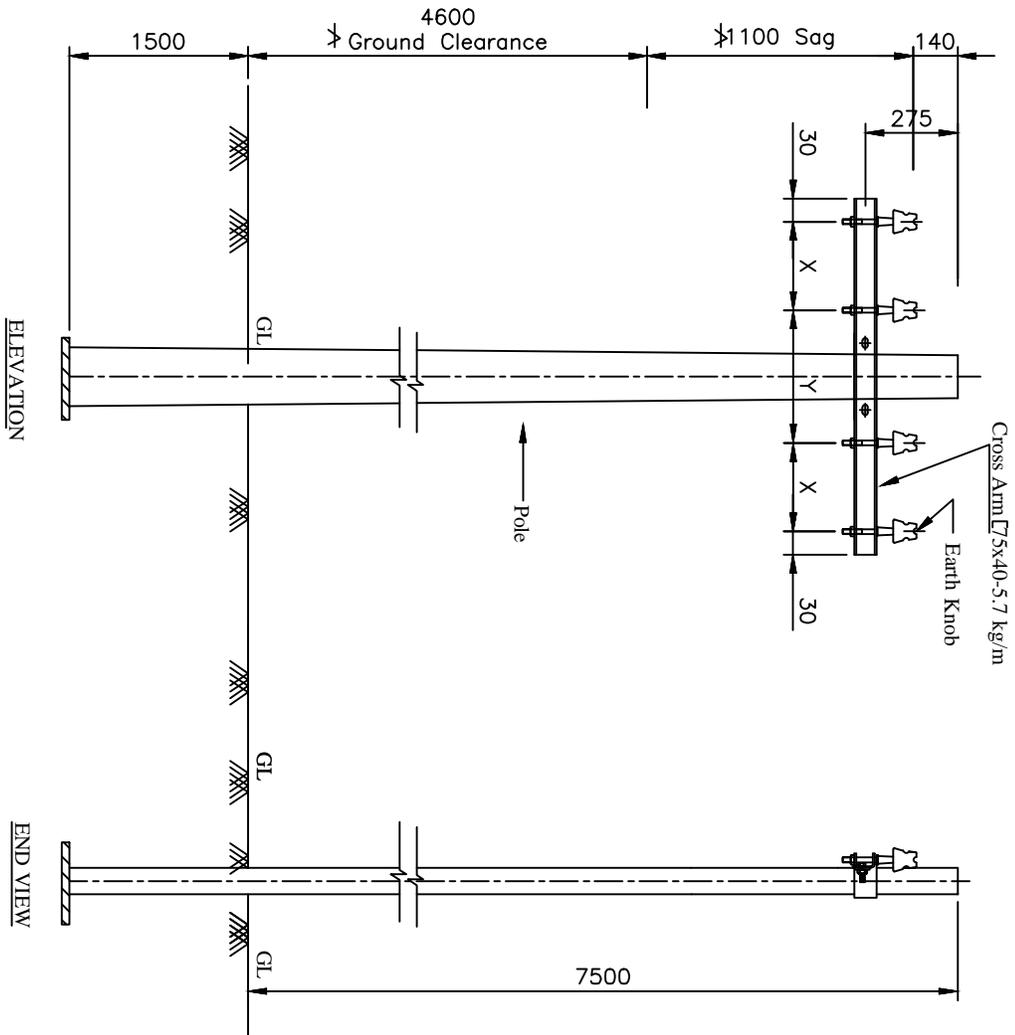
SHT. NO. REV. NO.

1 OF 1 0

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

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



Rural Electrification Corporation Ltd.

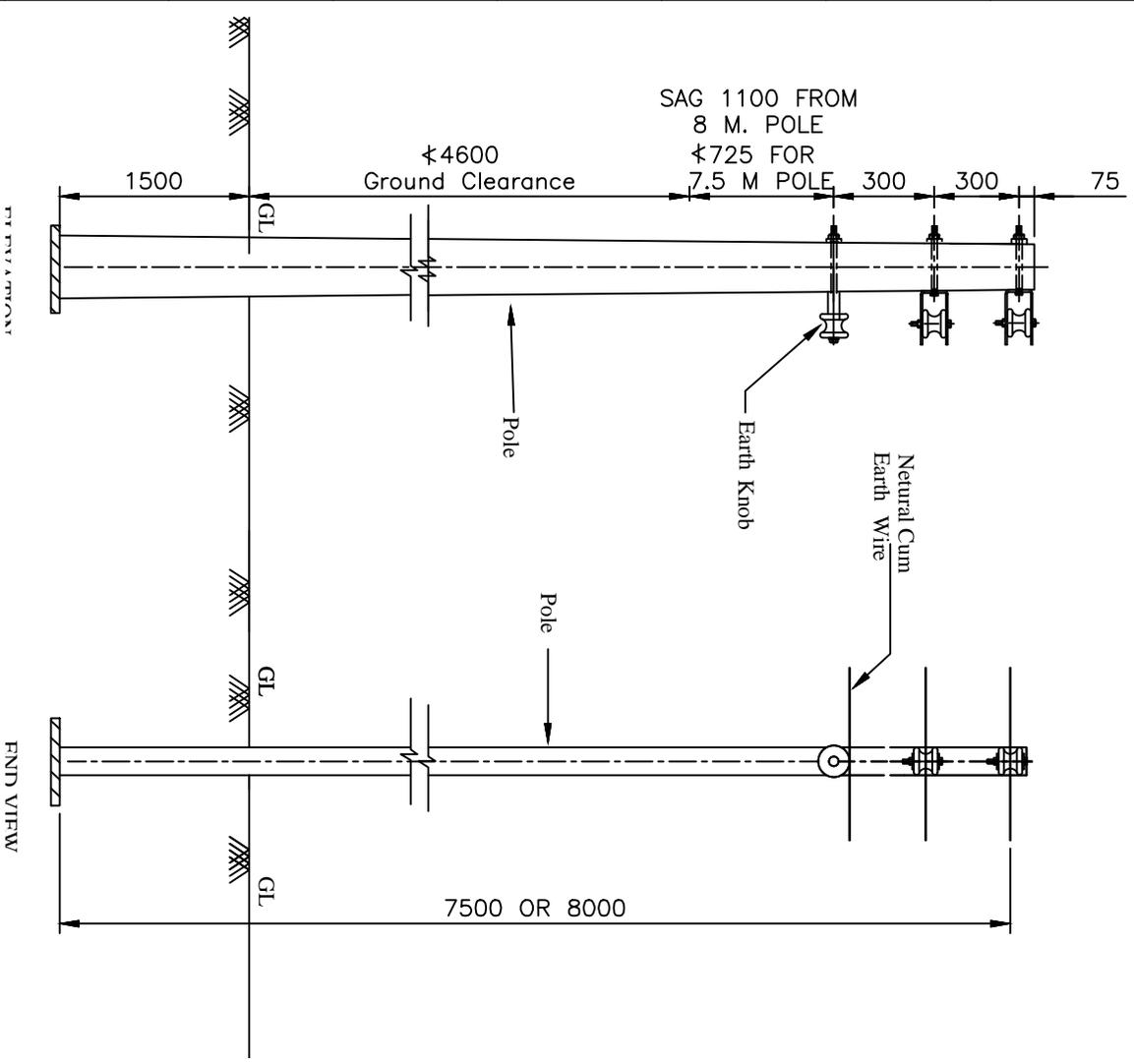
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

Note:- All Dimension are in mm.

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

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.

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.

FOR TENDER PURPOSE ONLY



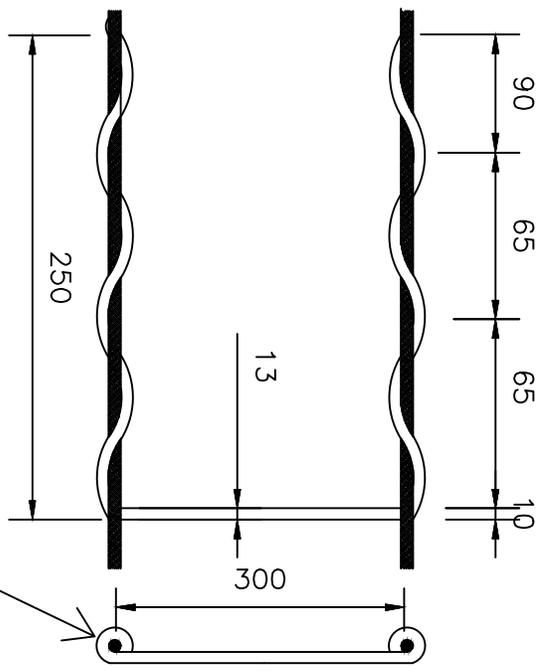
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

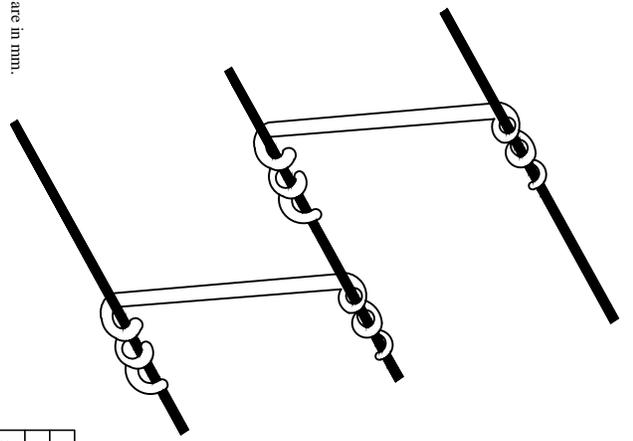
TITLE: 415/240V Line Conductor Formation And Clearances
1 ϕ 3W (Vertical Formation)

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

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-OH/14	1 OF 1	0



A View of the PVC Spacers on the L.T Line



Tests:-
The Spacers shall comply with the following Test Requirements:-

1. Dry Power Frequency Withstand Voltage 23KV.
2. Wet Power Frequency Withstand Voltage 10KV.
3. Three Specification Shall be Maintained At A Temp. of 70_2C For Period of 24 Hours. After This Treatment, The Specimens shall Not Show Any Deformity. And After Cooling, shall Have A Minimum Tensile Strength of 375 Kg/Cm(500 Kg For 13mm Dia Spacer)

NOTE:-
While 1 And 2 Will Be Treated AS Type Tests. The Third Test Will Be Carried Out On Each Batch of 5000 Nos.

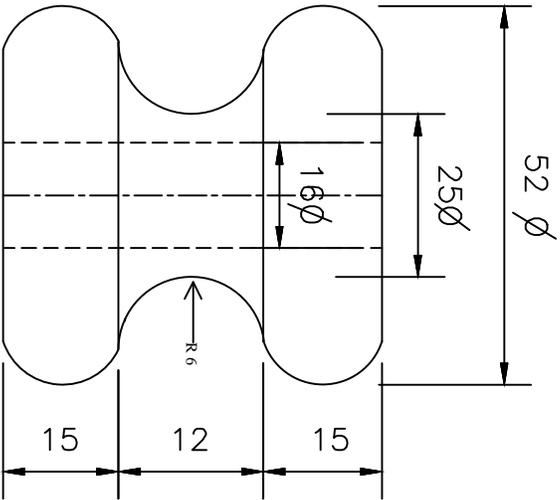
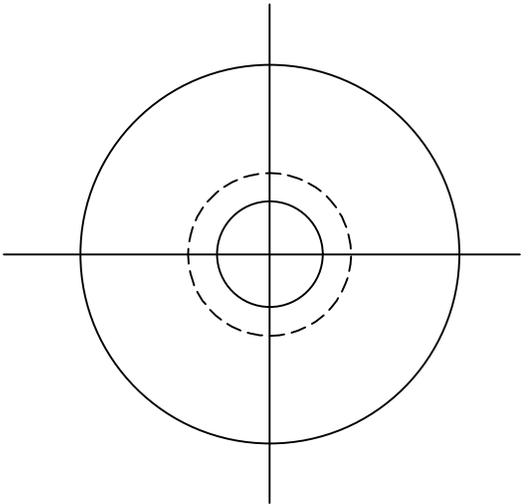
FOR TENDER PURPOSE ONLY

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: L.T Lines PVC Spacer

REV. NO.	R0	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
SIZE/SCALE	PRG. NO.	SHT. NO.		REV. NO.		
A3 MTS	REC/RDSS/LT-OH/15	1 OF 1		0		

Note:- All Dimension are in mm.



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

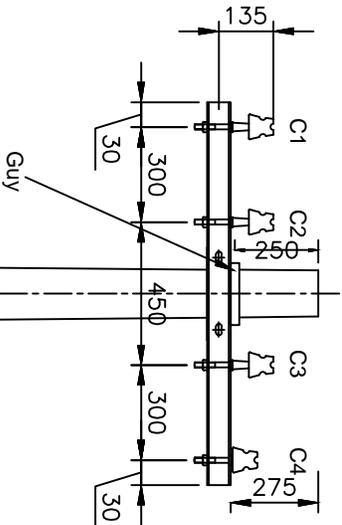
PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE:
Earth Knob For L.T Line

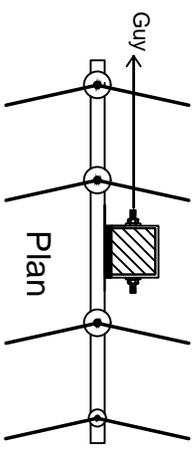
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE
RO				

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.



Elevation



Plan

Note:- All Dimension are in mm.

NOTES:-

1. FOR 7/2.11 mm AND 7/2.59 mm ACSR THE ANGLE OF DEVIATION MAY BE TAKEN UP TO 10.
2. FOR 7/3.35 mm ACSR THE ANGLE OF DEVIATION MAY BE TAKEN UP TO 5.
3. REFER REC CONSTRUCTION STANDARD B-19. FOR TYPE OF POLE TO BE USED.
4. THE DRAWING INDICATES THE POSITION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
5. 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 0°TO 10°Angle Locations(3-Phase,4Wire,Horizontal Formation)

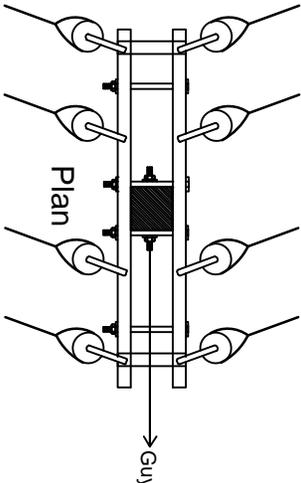
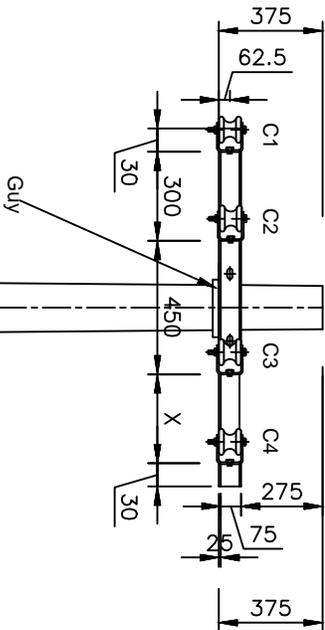
SIZE SCALE: DRG. NO.

AS INTS REC/RDSS/LT-OH/17

SHT. NO. REV. NO.

1 OF 1 0

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



Elevation

Guy

Plan

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.

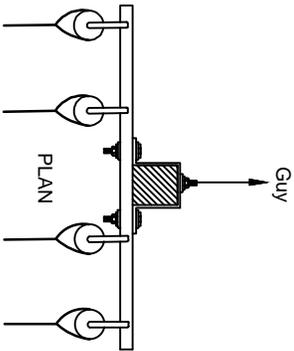
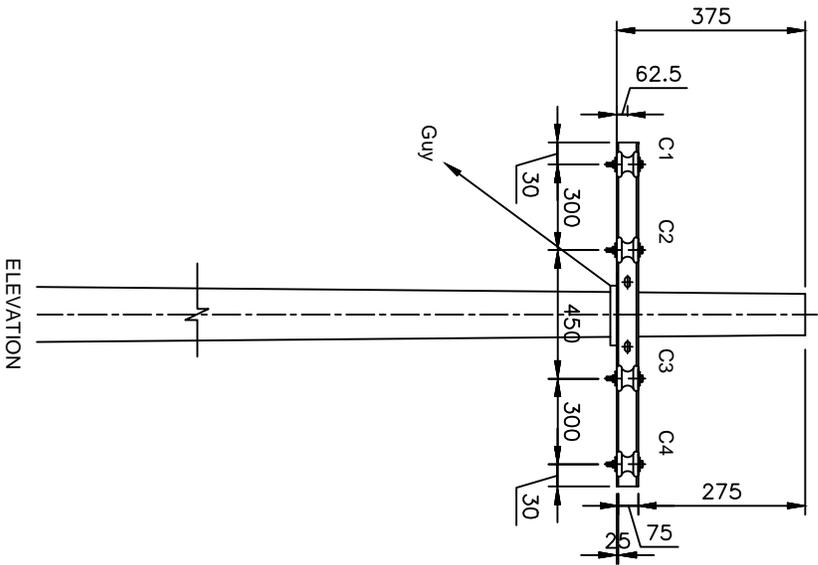
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE/SCALE	PRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/LT-OH/18	1 OF 1	0

Note:- All Dimension are in mm.

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



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.

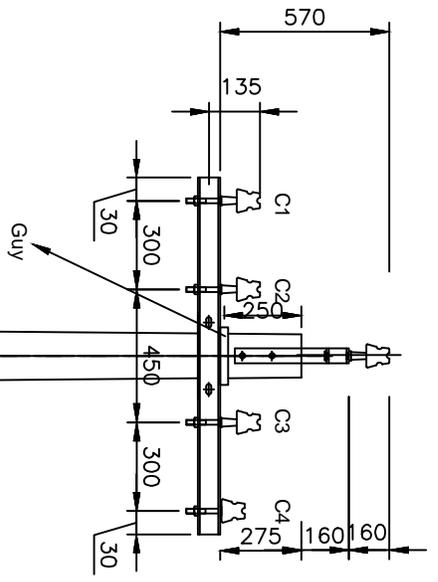
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

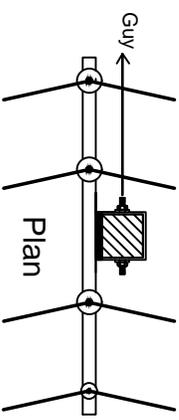
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3/NTS	REC/RDSS/LT-OH/20	1 OF 1	0

RO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

Note:- All Dimension are in mm.



Elevation



Plan

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.

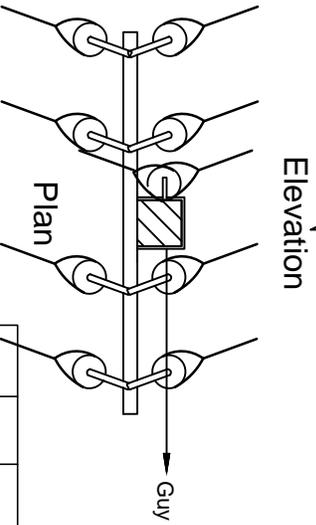
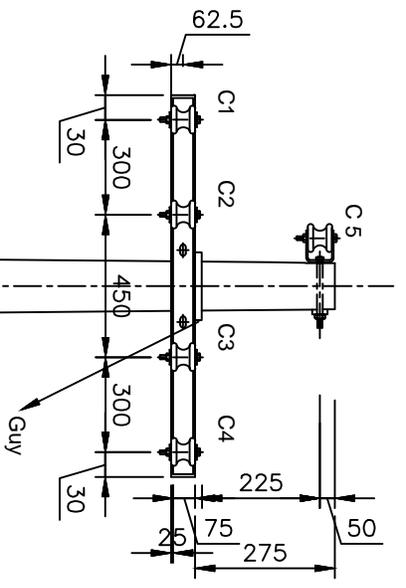
PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

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

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

Note:- All Dimension are in mm.

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3/NTS	REC/RDSS/LT-OH/21	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,C5 _____ PHASE CONDUCTORS
 C4 _____ EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

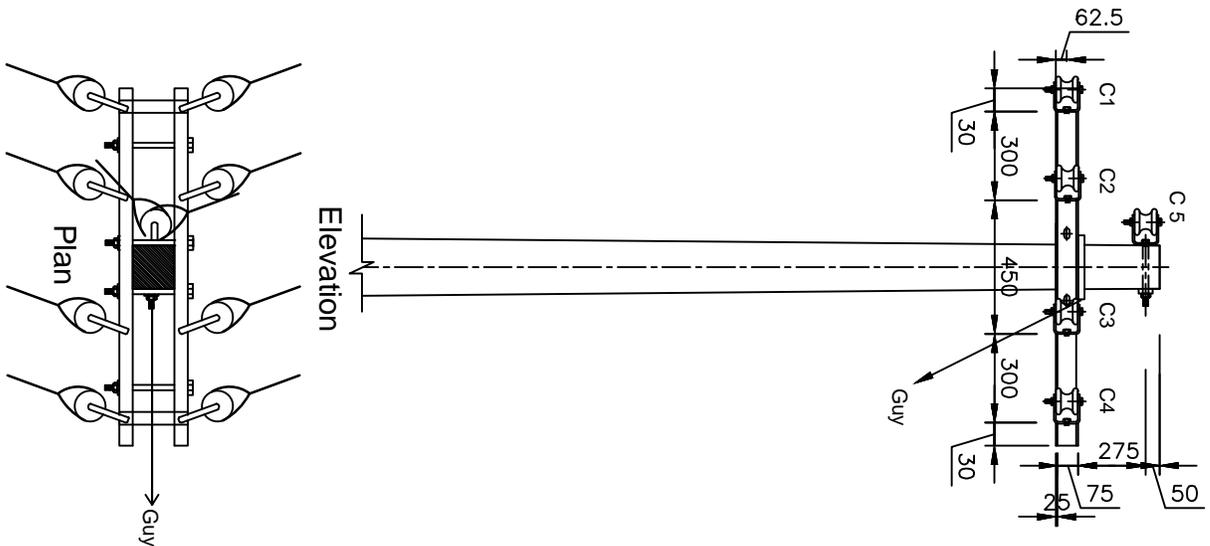
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

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.



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:-

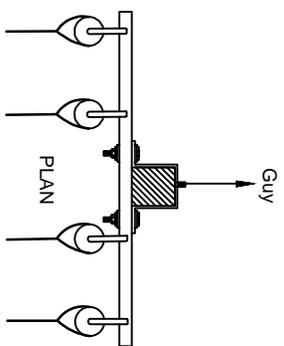
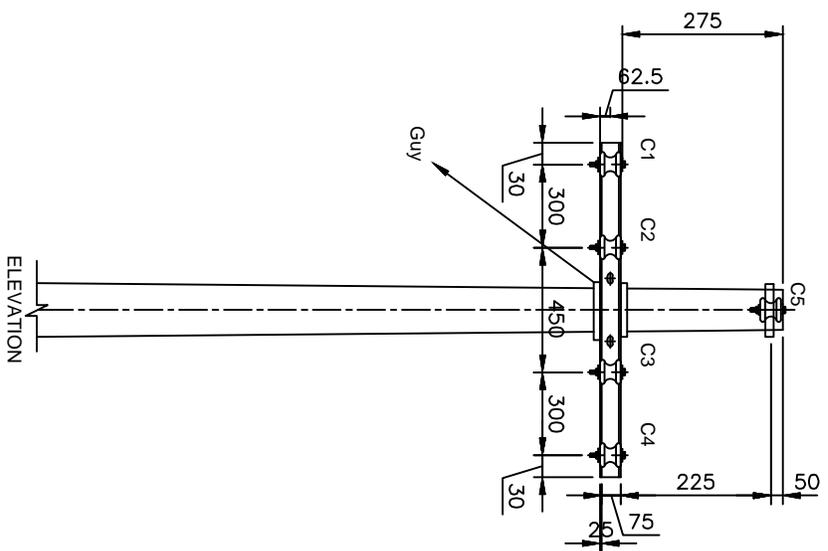
- C1, C2, C3, C5 _____ PHASE CONDUCTORS
 C4 _____ EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY

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

PROJECT

 <p>REC</p>	<p>Rural Electrification Corporation Ltd.</p>
<p>PROJECT: Revamped Distribution Sector Scheme (RDSS)</p>	
<p>TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 30° TO 60° Angle Locations(3-Phase, 5 Wire, Horizontal Formation)</p>	
<p>SIZE/SCALE: DRG. NO.</p>	<p>AS INTS REC/RDSS/LT-OH/23</p>
<p>SHT. NO. 1 OF 1</p>	<p>REV. NO. 0</p>



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 Dead End Locations(3-Phase,5Wire,Horizontal Formation)

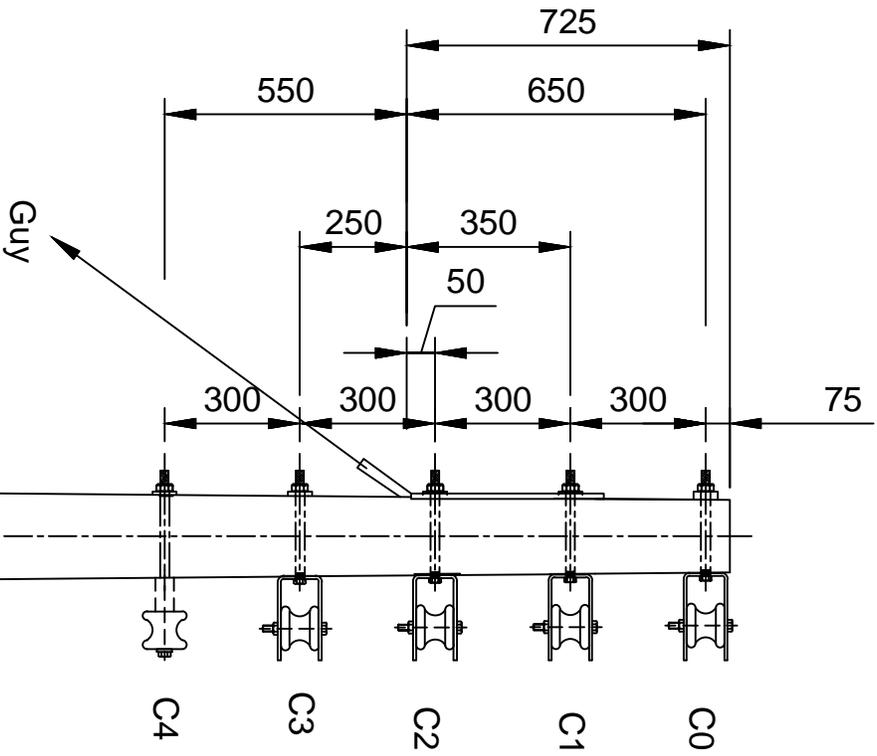
REV. NO.	BY	CHECKED BY	APPROVED BY	DATE

PROJECT

SIZE/SCALE: DRG. NO. REC/RDSS/LT-OH/25

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

C0, C1, C2, C3 ——— PHASE CONDUCTORS
 C4 ——— EARTH CUM NEUTRAL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

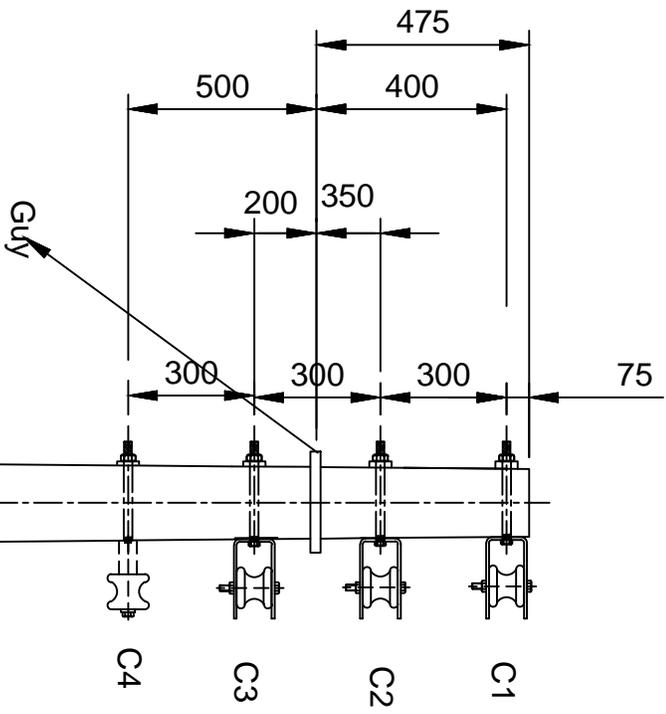
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For Dead End Locations(3-Phase,5Wire, Vertical Formation)

REV. NO.	BY	CHECKED BY	APPROVED BY	DATE

SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/26	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)

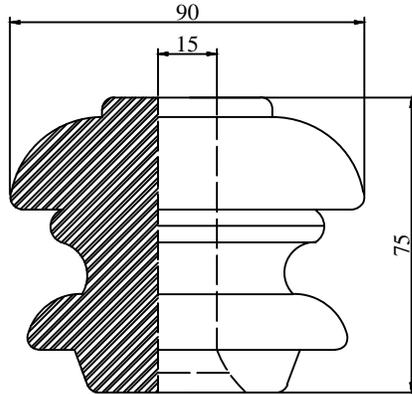
TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For Dead End Locations(3-Phase,4 Wire, Vertical Formation)

SIZE/SCALE	DRG. NO.	AS INTS	SHT. NO.	REV. NO.
		REC/RDSS/LT-OH/27	1 OF 1	0

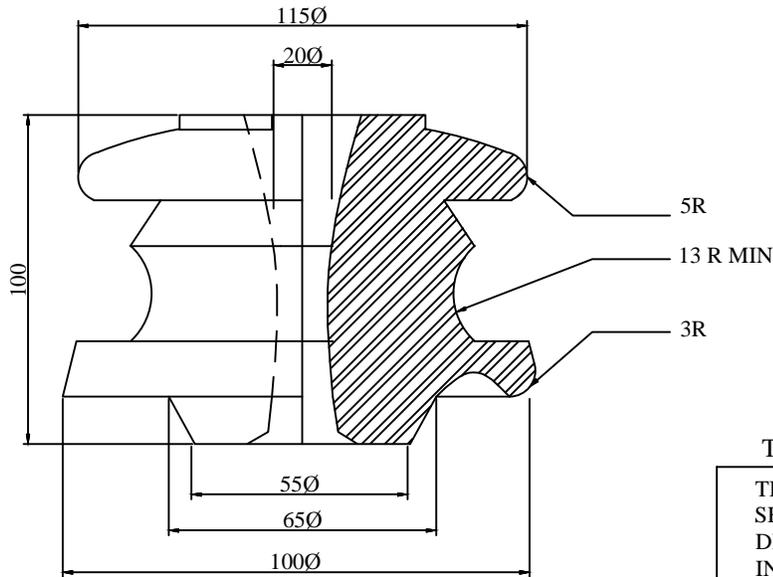
RD									
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT				

Note:- All Dimension are in mm.

Elevation



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:

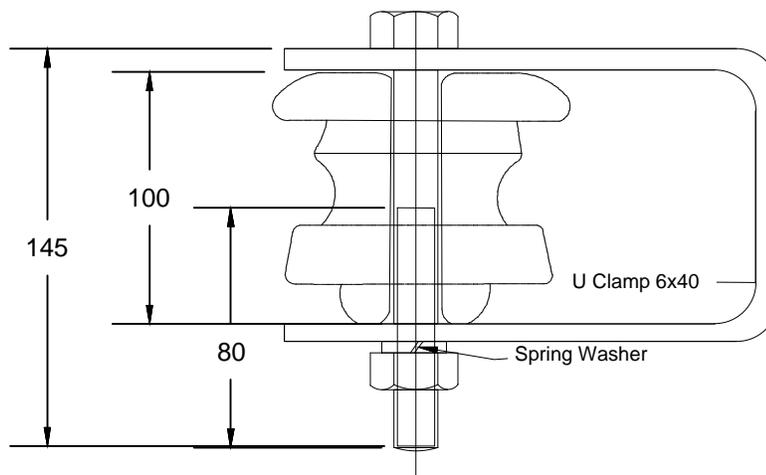
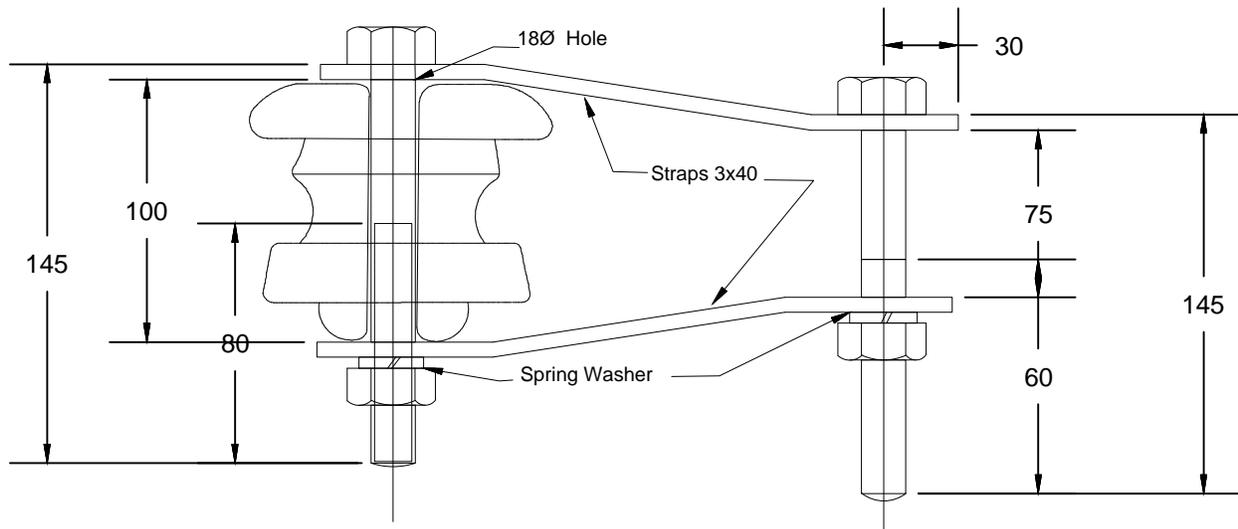
Revamped Distribution Sector Scheme (RDSS)

TITLE

415/240 V Shackle Insulators

RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

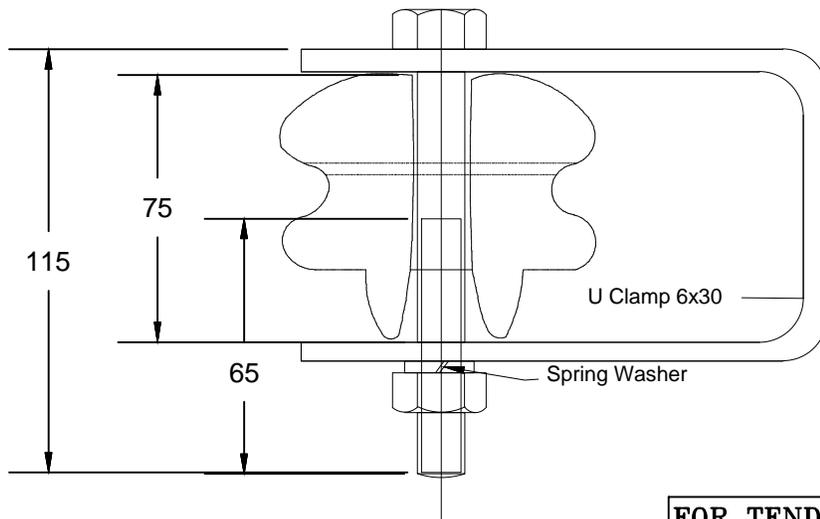
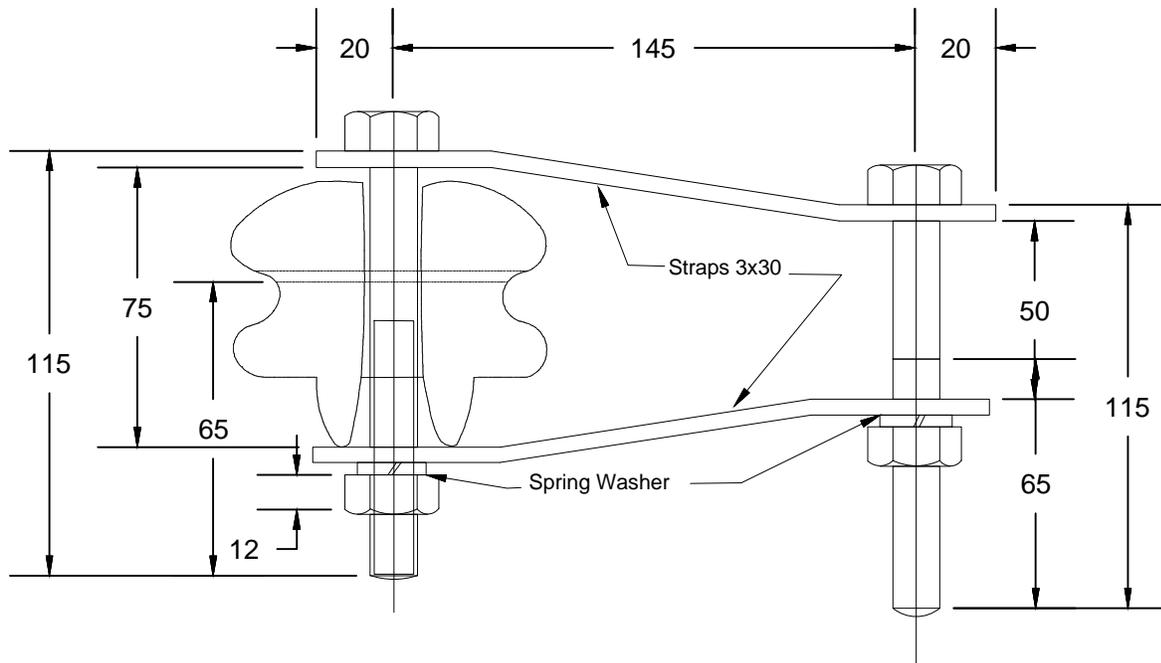
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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:

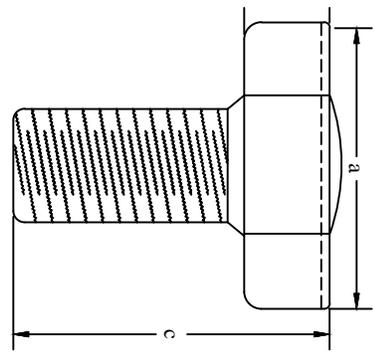
Revamped Distribution Sector Scheme (RDSS)

TITLE

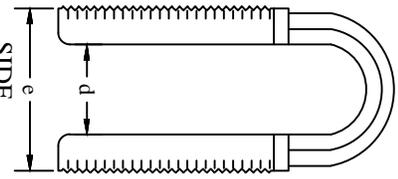
415/240V Insulators & Hardware Fitting
For Type-I Shackle Insulator

RD REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

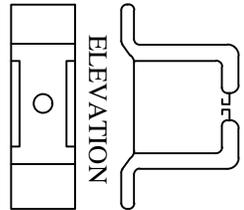
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/30	1 OF 1	0



ELEVATION



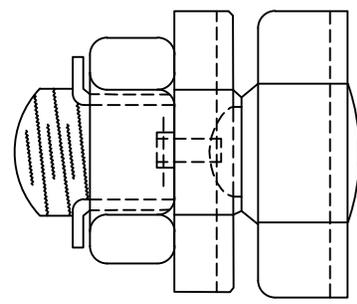
SIDE



ELEVATION

PLAN

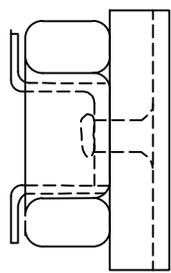
DETAIL 'A'



CONNECTOR ASSEMBLY

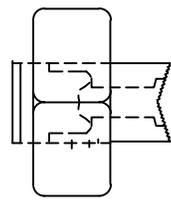
TWO STANDARD SIZES OF SERVICE CONNECTORS, TYPE A AND TYPE B SAHALL HAVE THE FOLLOWING DIMENSIONS / APPLICATIONS.

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 AVT) 20 mm ² ACSR, 30 mm ² ACSR AND 25 mm ² AAC (SQUIRREL, WEASEL AND GNAT)
B	30	12	30	8	16	25 mm ² TO 10 mm ² ALUMINIUM CABLE

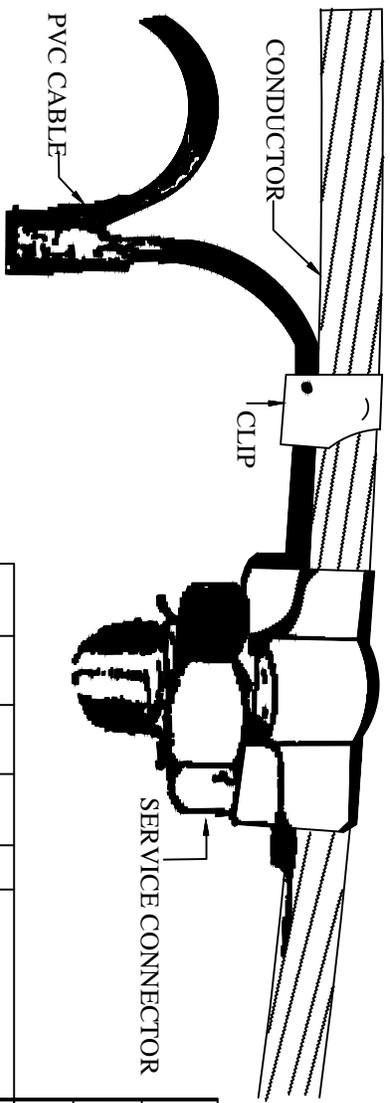


ELEVATION

SEE DETAIL AT 'A'



SIDE

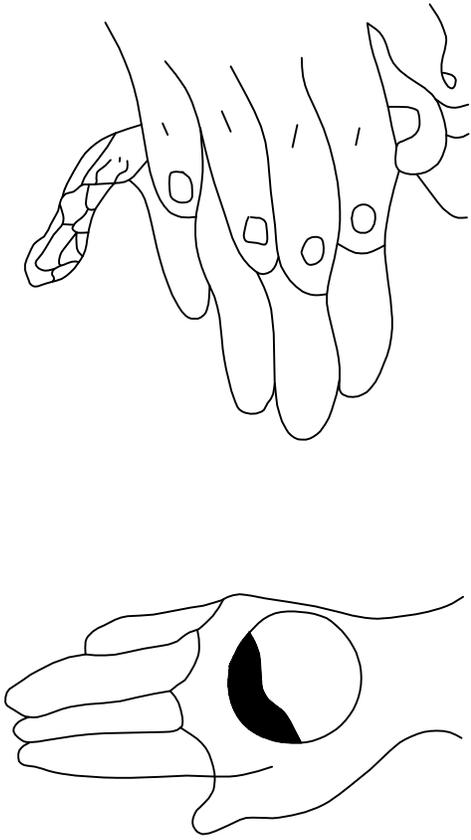


SERVICE CONNECTOR

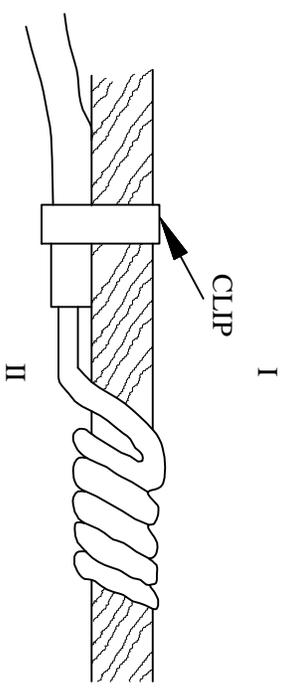
ALL DIMENSION ARE IN MM.
FOR TENDER PURPOSE ONLY

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

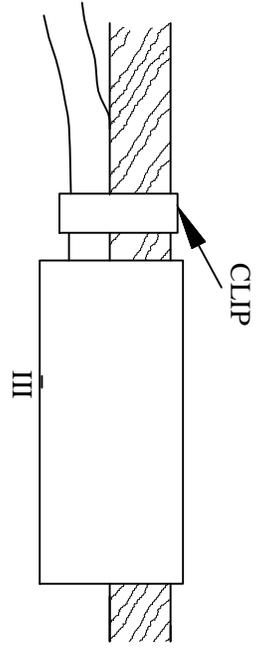
RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
REV. NO.						A3	NTS	REC/RDSS/LT-OH/31	1 OF 1	0



STEP: I. MIX THE ' RESIN' AND HARDNER AS PER INSTRUCTIONS OF THE MANUFACTURER TO PREPARE PUTTY.



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



STEP: III. APPLY PUTTY OVER THE JOINT TO COMPLETELY ENCAPSULATE THE JOINT.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Application of Epoxy Compound on T-Joint for L. T. Service Connections

REV. NO.	RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/32	1 OF 1	0



FIGURE-I



FIGURE-II

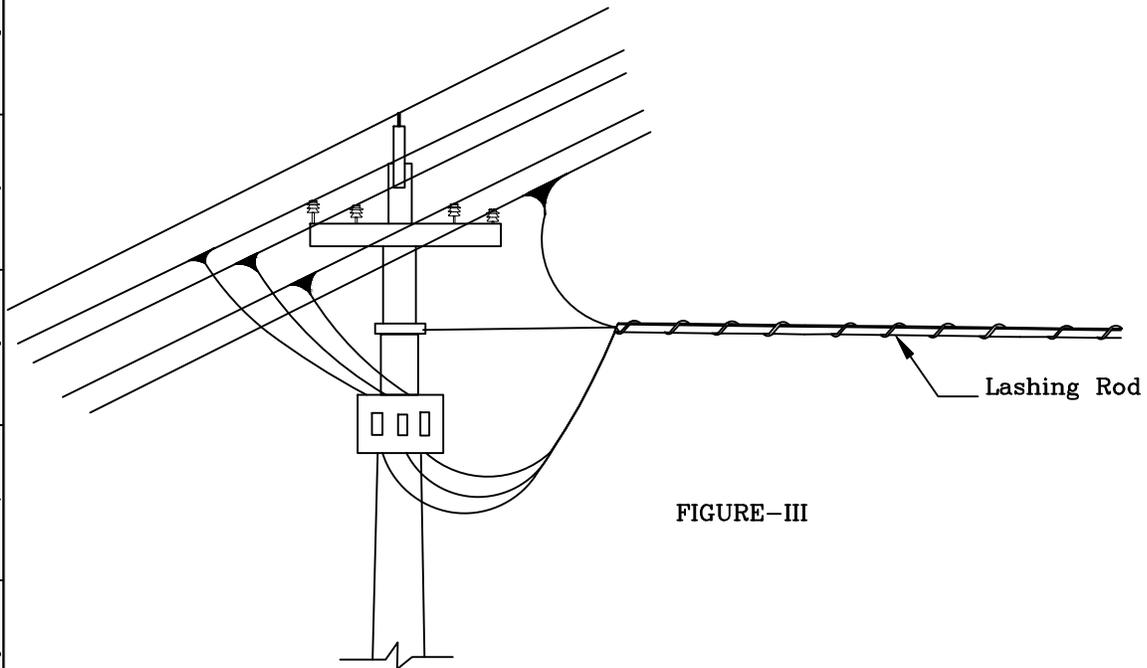


FIGURE-III

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

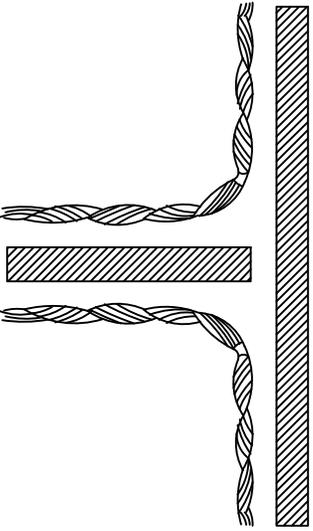


FIGURE-1

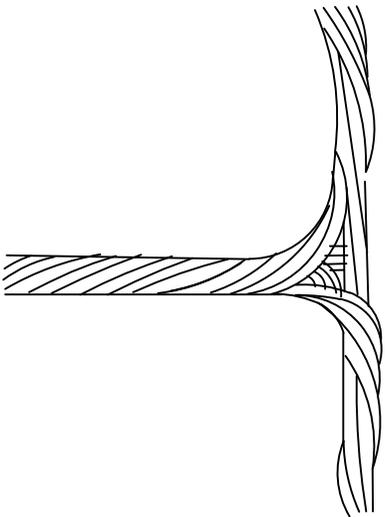


FIGURE-2

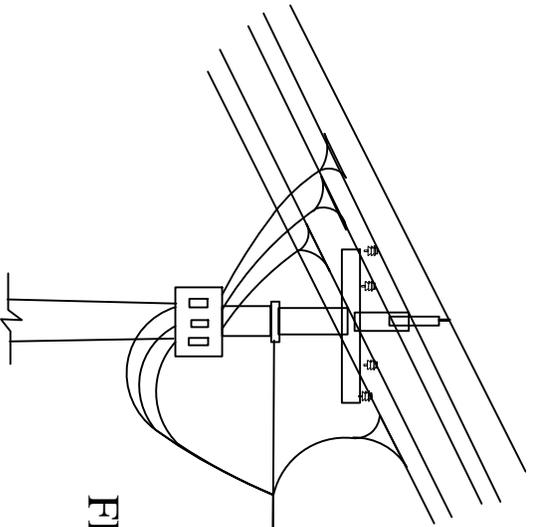


FIGURE-3

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

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

ALL DIMENSIONS ARE IN MM.
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

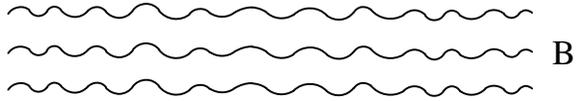
TITLE:
 Hellically Formed Fittings T-Connector

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

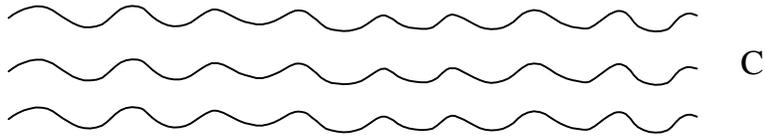
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/34	1 OF 1	0



A



B



C

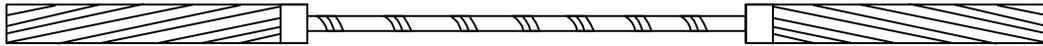


FIGURE-1

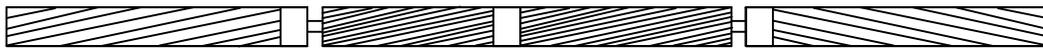


FIGURE-2

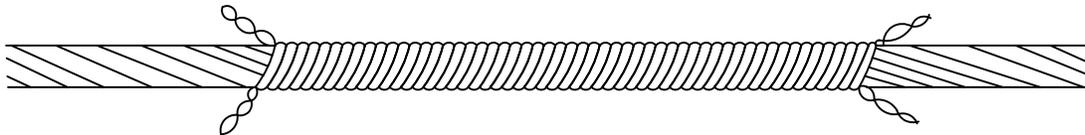


FIGURE-3

- 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:

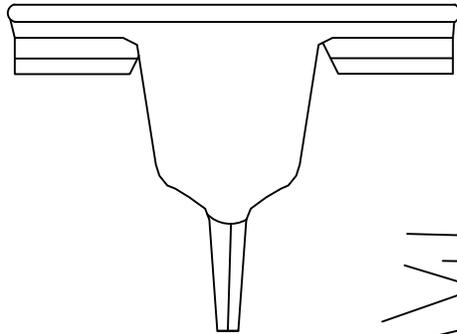
Revamped Distribution Sector Scheme (RDSS)

TITLE

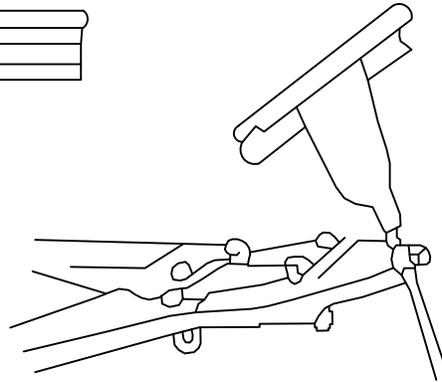
Helically Formed Fittings Splice For ACSR Joints

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

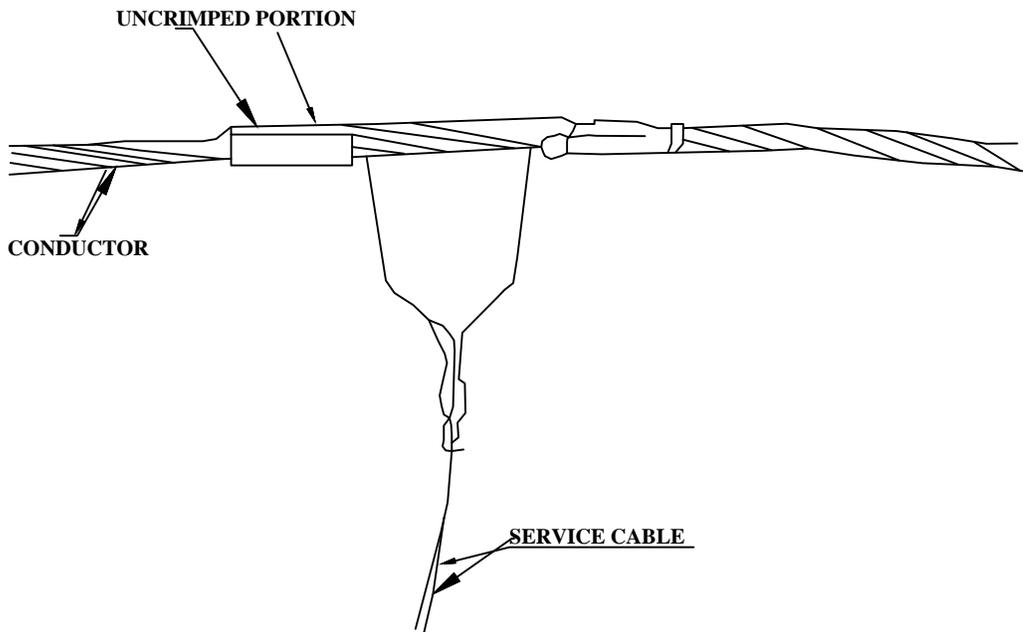
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/35	1 OF 1	0



SERVICE CONNECTOR



APPLICATION OF CRIMPING TOOL



A VIEW OF CRIMPED SERVICE CONNECTOR (PARTLY CRIMPED)

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

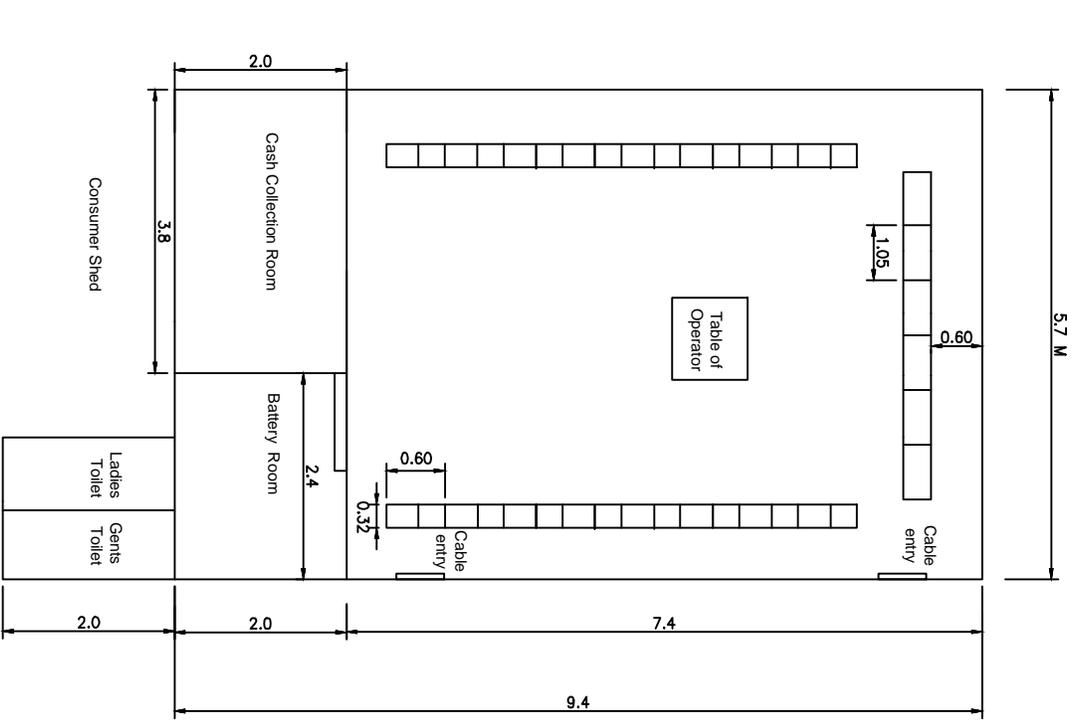
Revamped Distribution Sector Scheme (RDSS)

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



Proposed Control Room Layout plan
of 33 /11 KV Rural substation

FOR TENDER PURPOSE ONLY

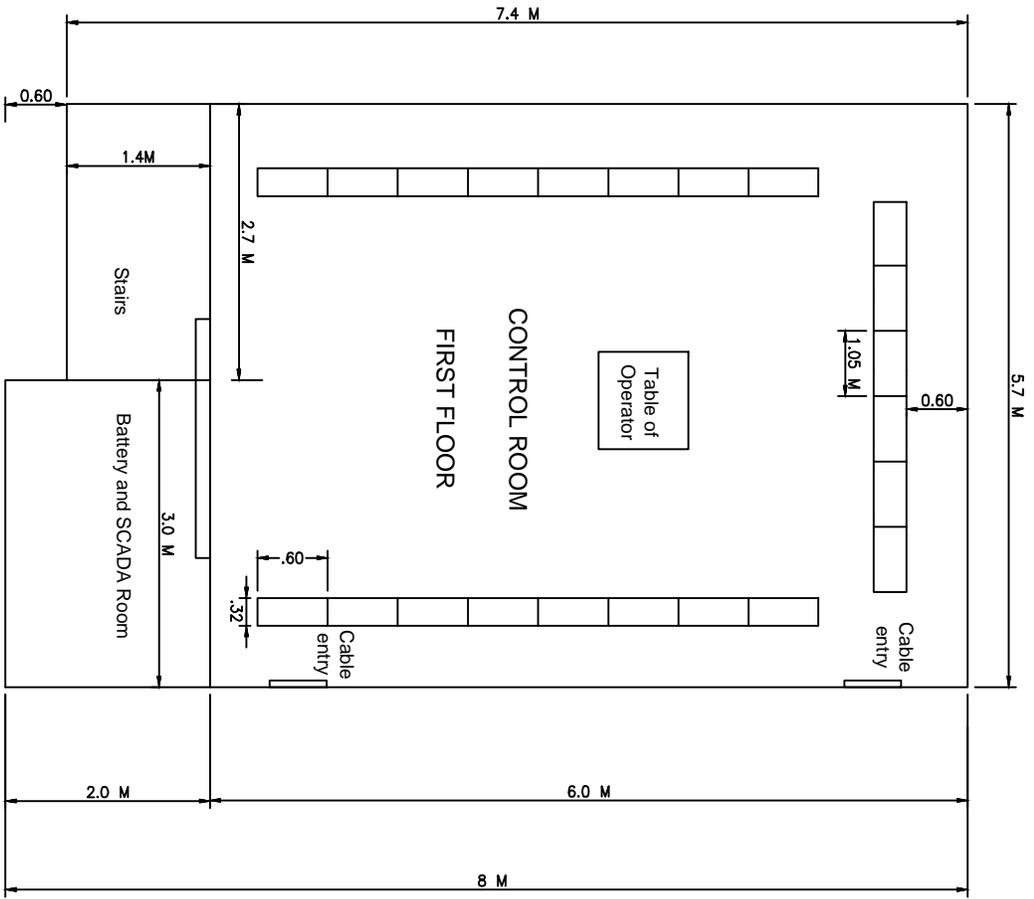


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Proposed Control Room Layout plan of 33 /11 KV Rural substation

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
REV. NO.						A4	1:100	REC/RDSS/Control Room/01A	1 OF 1	0



EXTENDED GALLERY
FOR BATTERY ROOM

FOR TENDER PURPOSE ONLY



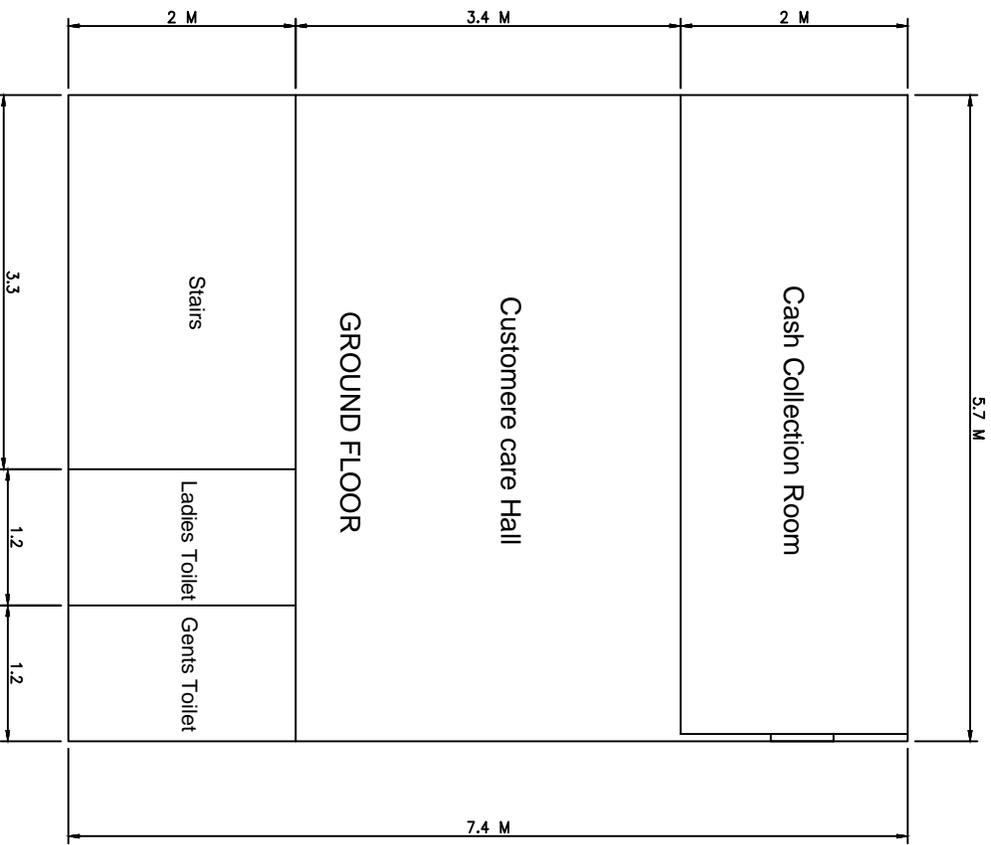
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Proposed Double story Control Room Layout plan of 33 /1/1 KV substation in CITY/TOWN ZONE

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/Control Room/01B	1 OF 1	0



**Proposed Double story Control Room Layout plan
of 33 /11 KV substation in CITY/TOWN ZONE**

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

FOR TENDER PURPOSE ONLY

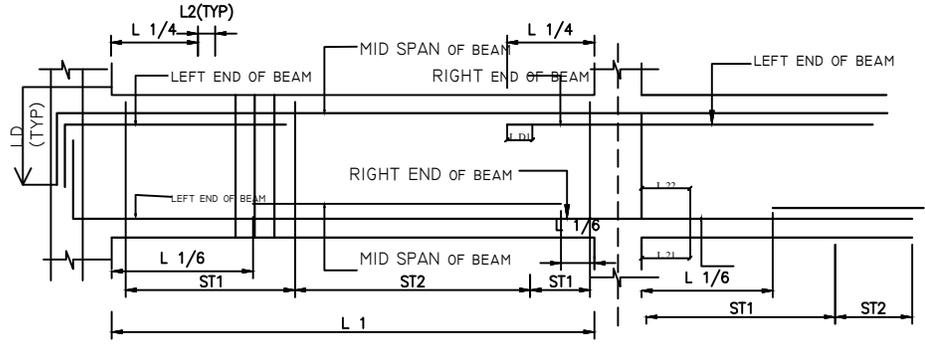


Rural Electrification Corporation Ltd.

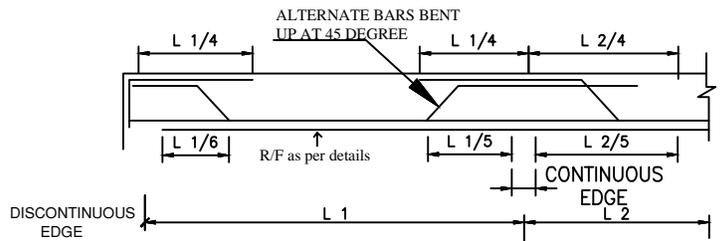
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Proposed Double story Control Room Layout plan of 33 /11 KV substation in CITY/TOWN ZONE

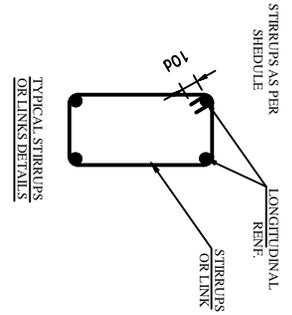
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/Control Room/01C	1 OF 1	0



TYPICAL SECTION OF BEAM



TYPICAL R/F DETAILS OF SLAB



DEVELOPMENT LENGTH - L _d L _d FOR HYSD BARS WITH F _y =415 N/MM ²	L _d
CONCRETE GRADE	M-20
	47X D.L.A

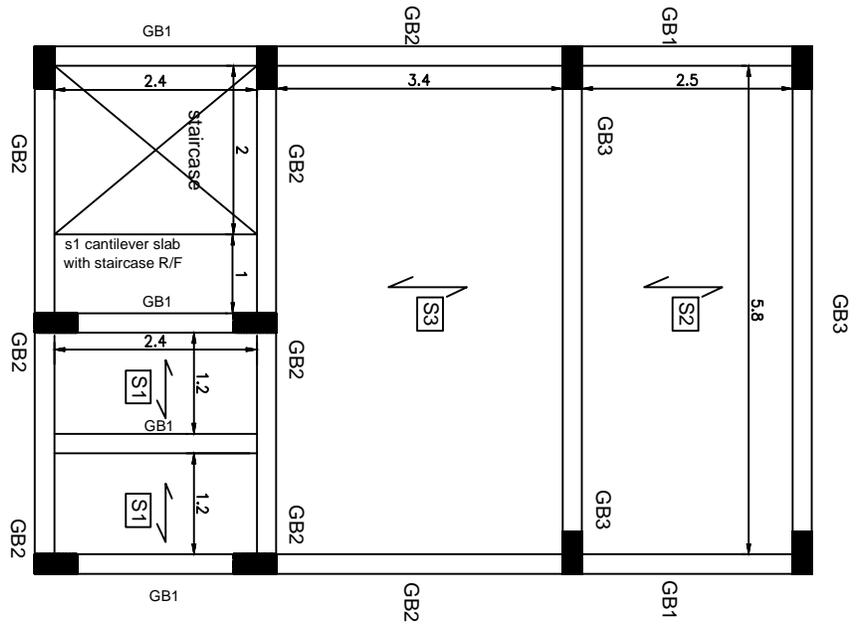
SR. NO.	BEAM	SIZE	CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SPAN	STIRRUPS DETAIL	AT	AT MID SPAN(S1)	AT MID SPAN(S2)
1.	GB1	200X420	2-10 mm ϕ	2-10 mm ϕ	2-10 mm ϕ	2-10 mm ϕ	8mm @ 175c/c	8mm @ 225c/c		
2.	GB2	200X420	2-12 mm ϕ	2-12 mm ϕ	2-12 mm ϕ	2-12 mm ϕ	8mm @ 175c/c	8mm @ 225c/c		
3.	GB3	200X350	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	8mm @ 150c/c	8mm @ 200c/c		

GROUND FLOOR SLAB BEAM DETAILS

SCHEDULE OF GROUND FLOOR ROOF SLAB

SR. NO. MARKED	SLAB THK.	ALONG SHORT SPAN	ALONG LONG SPAN	EXTRA SUPPORT ON TOP	ALONG SHORT SPAN	ALONG LONG SPAN	REMARKS
1.	S1	120	120	RT-225 C/C	RT-350 C/C	—	ONE WAY
2.	S2	120	120	RT-200 C/C	RT-300 C/C	—	ONE WAY
3.	S3	120	120	RT-150 C/C	RT-350 C/C	—	ONE WAY

GROUND FLOOR SLAB BEAM PLAN



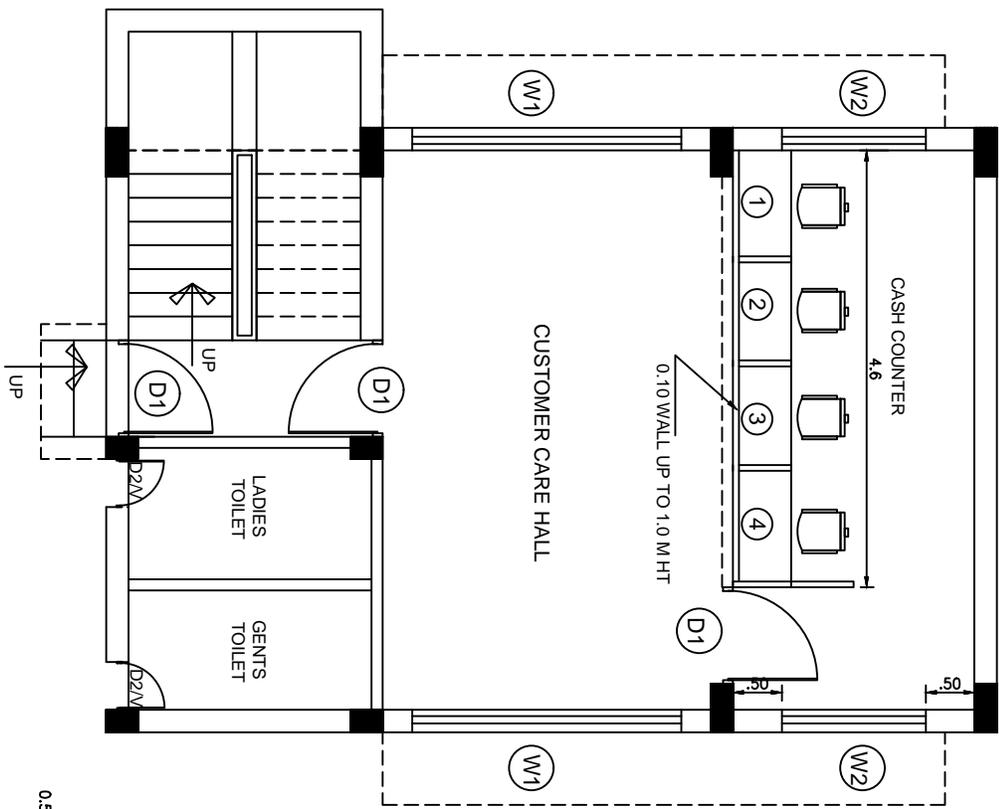
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

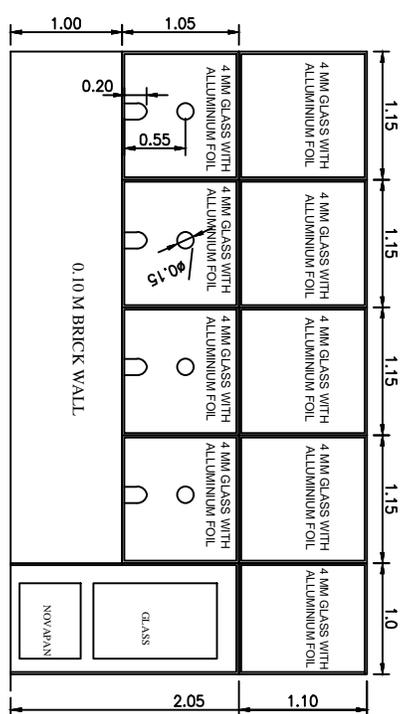
Revamped Distribution Sector Scheme (RDSS)

GROUND FLOOR SLAB BEAM & DETAILS

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



GROUND FLOOR WORKING PLAN



ELEVATION

SPECIFICATION FOR ALUMINIUM SECTIONS

FIRST SECTION	40 MMX60MM
CLEAT SECTION	15MM(TRIANGULAR)
DOOR STYLE (TOP)	40 MMX100MM
DOOR STYLE (BOTTOM)	40 MMX150MM

FOR TENDER PURPOSE ONLY

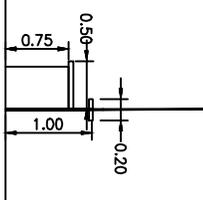
Rural Electrification Corporation Ltd.

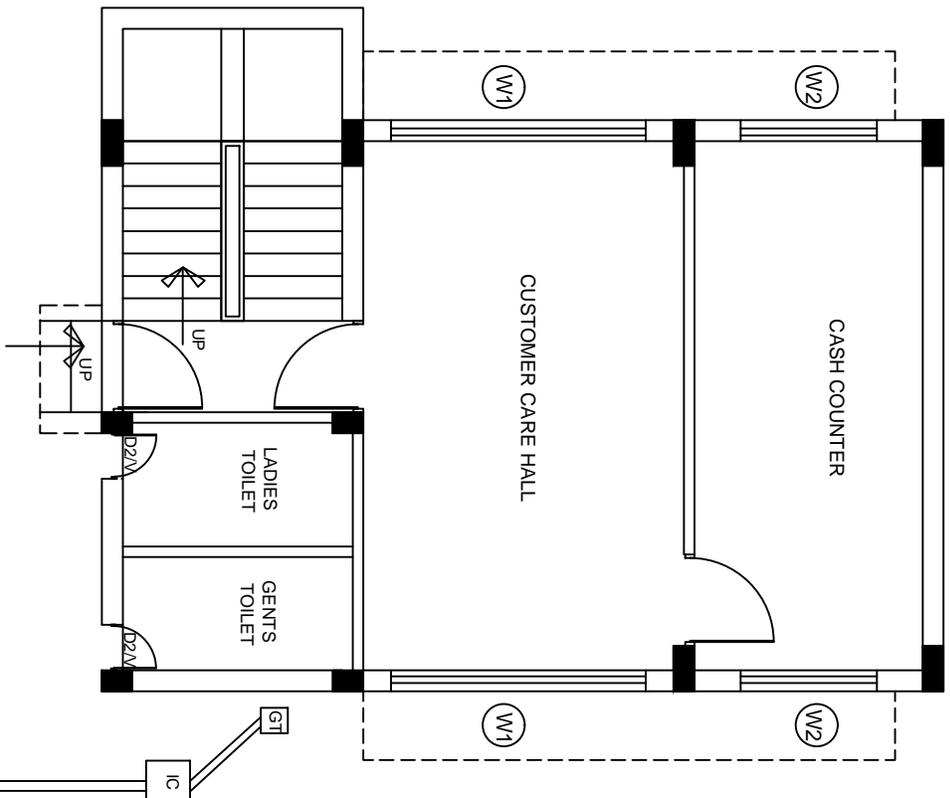

3एनआरएल
 PROJECT: Rural Electrification Corporation Ltd.
 Revamped Distribution Sector Scheme (RDSS)

TITLE: GROUND FLOOR COUNTER ALUMINIUM PARTITION DRAWING

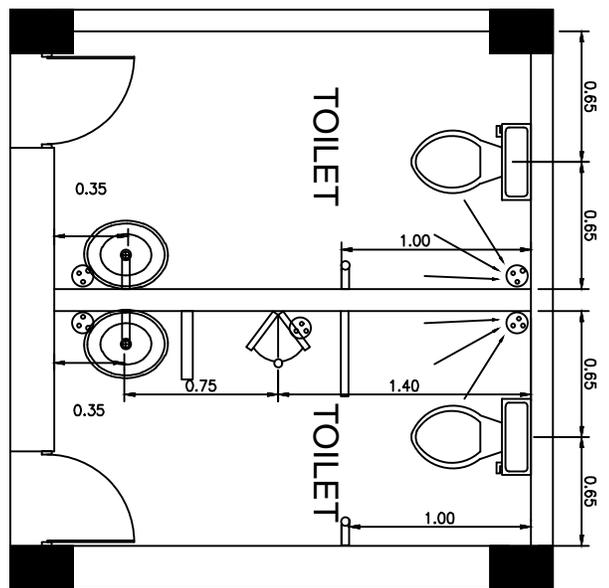
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/03	1 OF 1	0

SECTION





GROUND FLOOR TOILET LAYOUT



TOILET DETAILS (1:20)

FOR TENDER PURPOSE ONLY



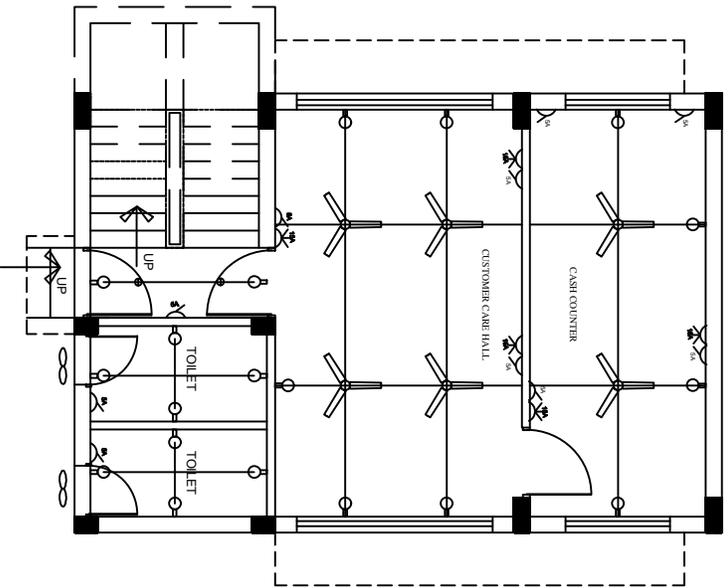
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

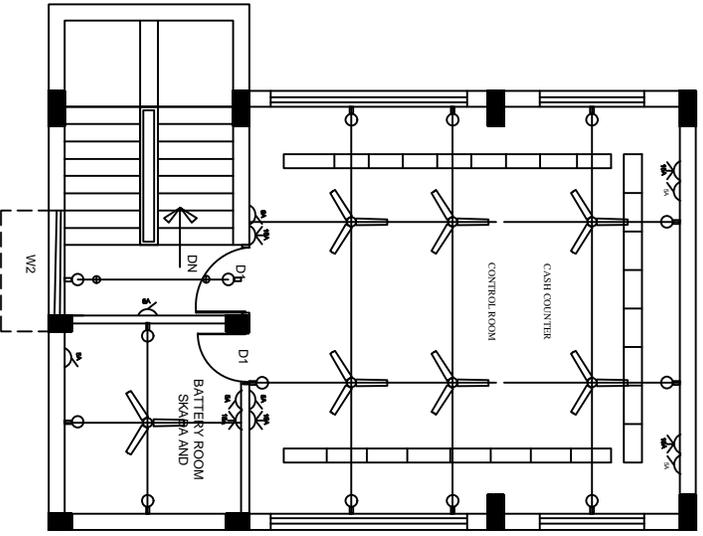
TITLE: GROUND FLOOR TOILET LAYOUT

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/CIVIL/04	1 OF 1	0



GROUND FLOOR ELECTRICAL PLAN



FIRST FLOOR ELECTRICAL PLAN

INDEX			
	5 AMP POINT		DISTRIBUTION BOX
	15 AMP POINT		EXHAUST FAN
	FAN POINT		TUBE LIGHT POINT
			CEILING POINT
			BELL

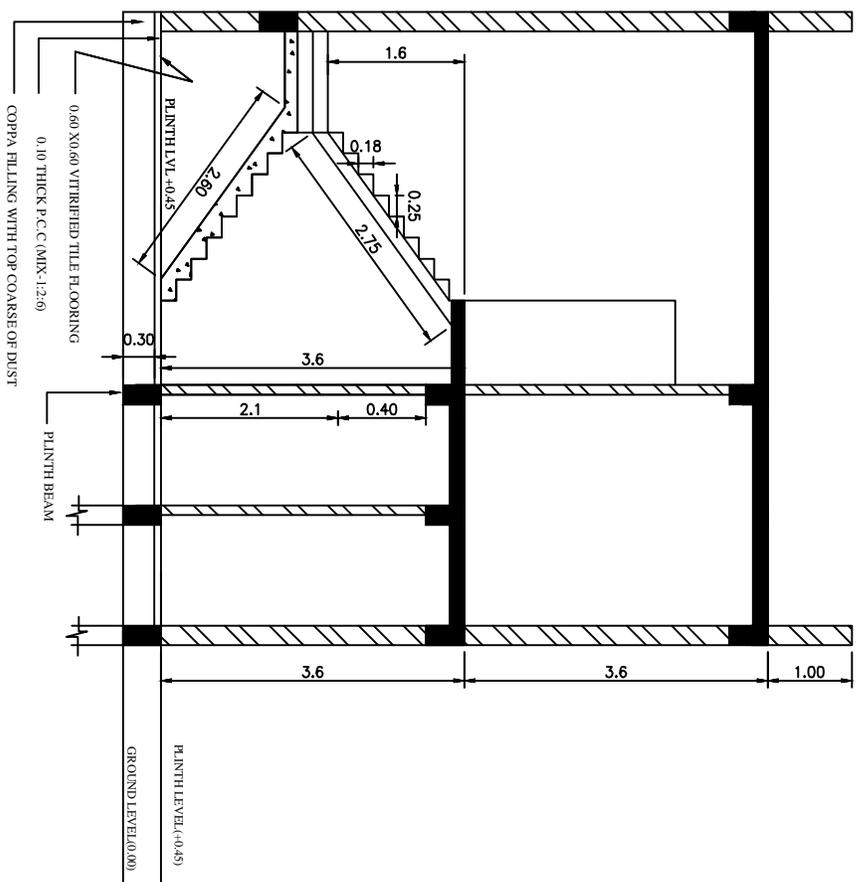
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

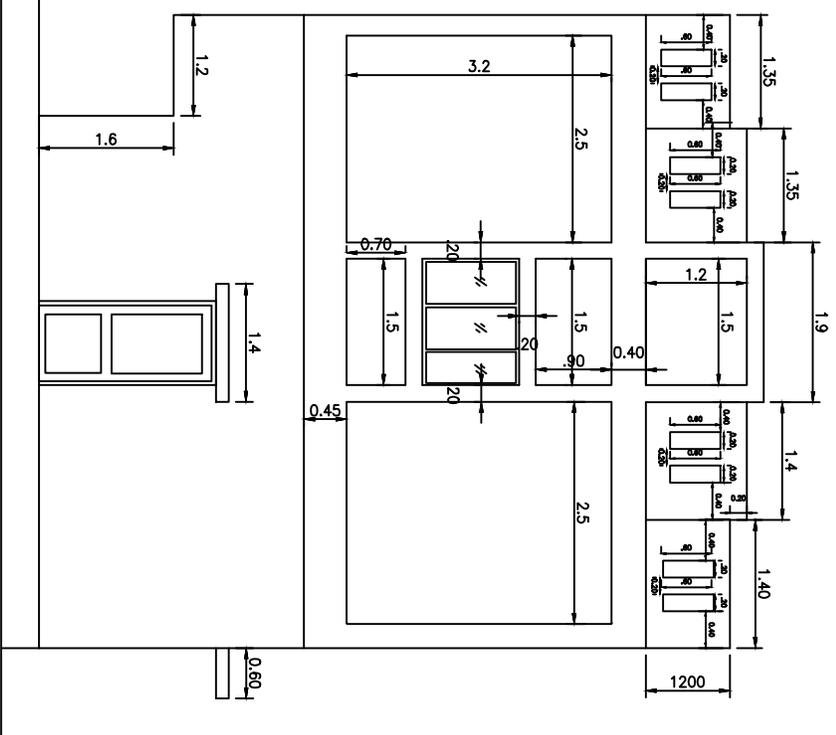
Revamped Distribution Sector Scheme (RDSS)

TITLE
GROUND & FIRST FLOOR ELECTRICAL LAYOUT

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/05	1 OF 1	0



SECTION - XX



ELEVATION

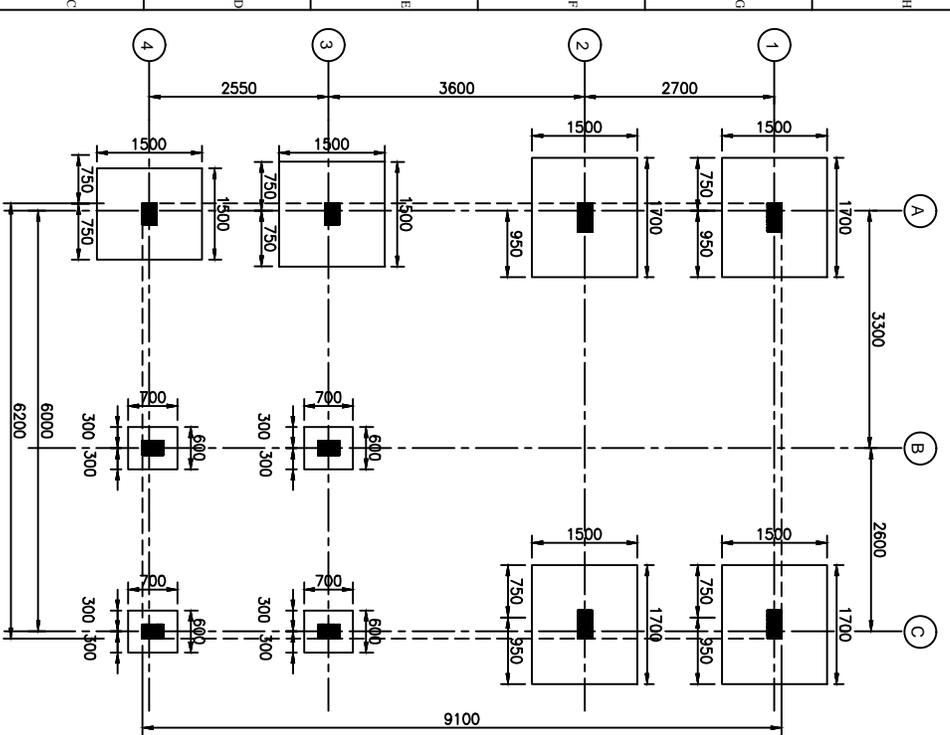
FOR TENDER PURPOSE ONLY


REC
 Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

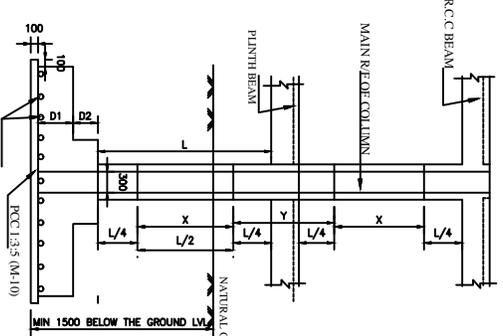
TITLE: ELEVATION & SECTION - XX

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/06	1 OF 1	0

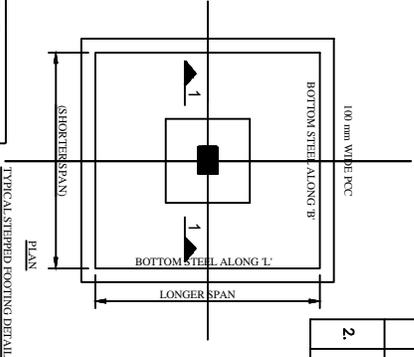


SCHEDULE OF FOOTING

SR. NO.	COLUMN	FOOTING TYPE	EXCAVATION DIMENSION		FOOTING DIMENSION		FOOTING REINFORCEMENT			
			WIDTH	LENGTH	STEP	WIDTH	LENGTH	Q2	ALONG B	ALONG L
F1	C1	STEPPED	1300	1500	1	1100	1300	300	10mmφ/50mm/c	10mmφ/50mm/c
F2	C2	STEPPED	1800	1700	2	1300	1600	300	10mmφ/50mm/c	10mmφ/50mm/c



TYPICAL DETAIL OF RING HOOK



TYPICAL STEPPED FOOTING DETAIL

Sr. No.	MARKED	A	B	MAIN	RING AT X	RING AT Y	SKETCH OF RING
1.	C1	200	300				
2.	C2	200	400				

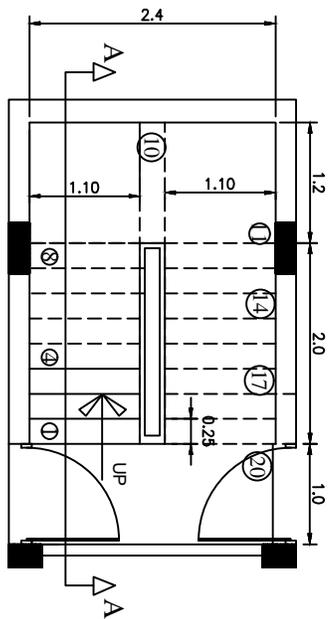
SCHEDULE OF COLUMNS

DEVELOPMENT LENGTH (LD) FOR HYSD BARS WITH E-45 IS MMSQ	LD
CONCRETE GRADE	M30
FX D.I.A	47X D.I.A

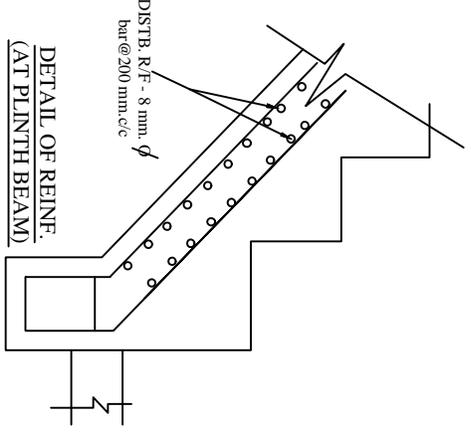
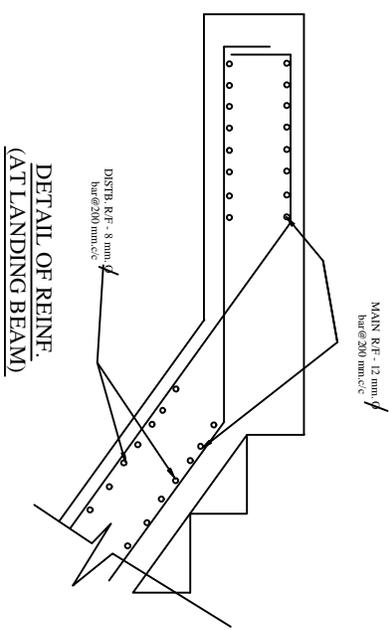
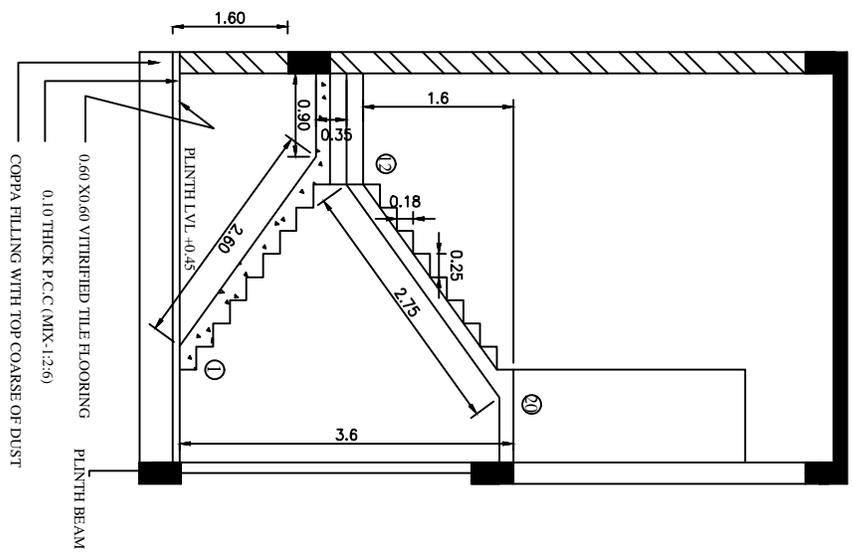
FOR TENDER PURPOSE ONLY

REC
 Rural Electrification Corporation Ltd.
 Revamped Distribution Sector Scheme (RDSS)
 CENTRE LINE WITH COLUMN LAYOUT & FOOTING DETAILS

REV. NO.	R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT			
SIZE	A4	SCALE	1:100	DRG. NO.	REC/RDSS/CIVIL/07	SHT. NO.	1 OF 1	REV. NO.	0



STAIRCASE DETAILS
STAIRCASE B
 RISER-150 mm Tread-250 mm
 Wast Slab 110 mm. TH.
 Main R/F-T 12 mm. @150 mm .c/c
 Dlabst. R/F-T 10mm. @200 mm.c/c



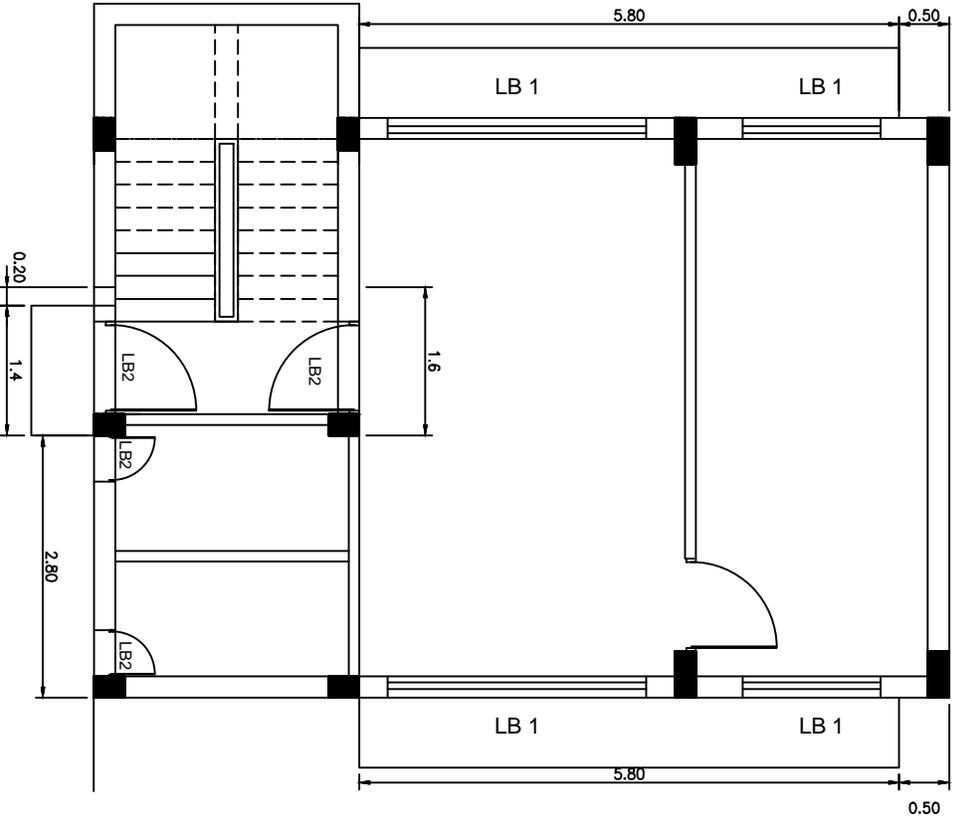
LB (100 mm x 400 mm.)

FOR TENDER PURPOSE ONLY

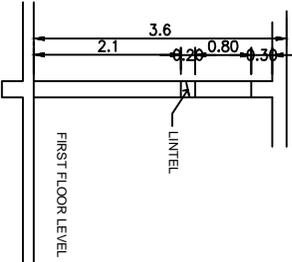
		Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)		TITLE: STAIR DETAIL	
SIZE: A4	SCALE: 1:100	DRG. NO.: REC/RDSS/CIVIL/08	SHT. NO.: 1 OF 1
REV. NO.: 0	PREPARED:	CHECKED:	APPROVED:
DATE:	PROJECT:		

REV. NO.: R0	PREPARED:	CHECKED:	APPROVED:	DATE:	PROJECT:
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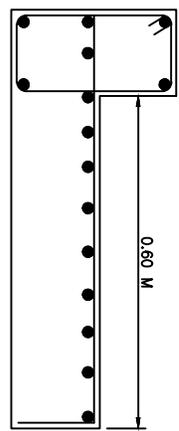
GROUND FLOOR LINTEL PLAN



TYPICAL SECTION



TYPICAL R.F.F DETAILS OF CHAJIA



CHAJIA SLAB DETAILS

S I	TYPE	THICKNESS	MAIN R.F.F	DISTRIBUTION
1	CANTILEVER SLAB TYPE	120 MM	ϕ 8mm @ 150/c	ϕ 8mm @ 175/c

LINTEL BEAM DETAILS

SR. NO.	BEAM	SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS DETAIL	
			CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SUPP.	AT SUPPORT(S)	AT MID SPAN(S)
1	LB1	200X200	2-10mm ϕ	1-10mm ϕ	2-10mm ϕ	1-10mm ϕ	8mm @ 150/c	8mm @ 200/c
2	LB2	200X200	2-10mm ϕ		2-10mm ϕ		8mm @ 175/c	8mm @ 250/c

FOR TENDER PURPOSE ONLY



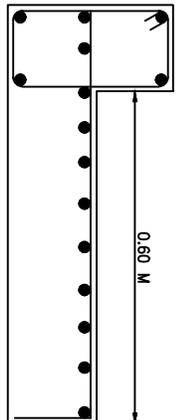
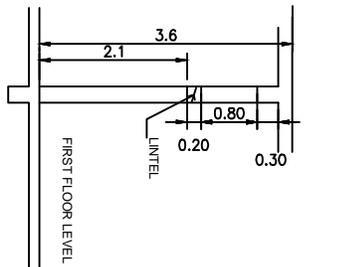
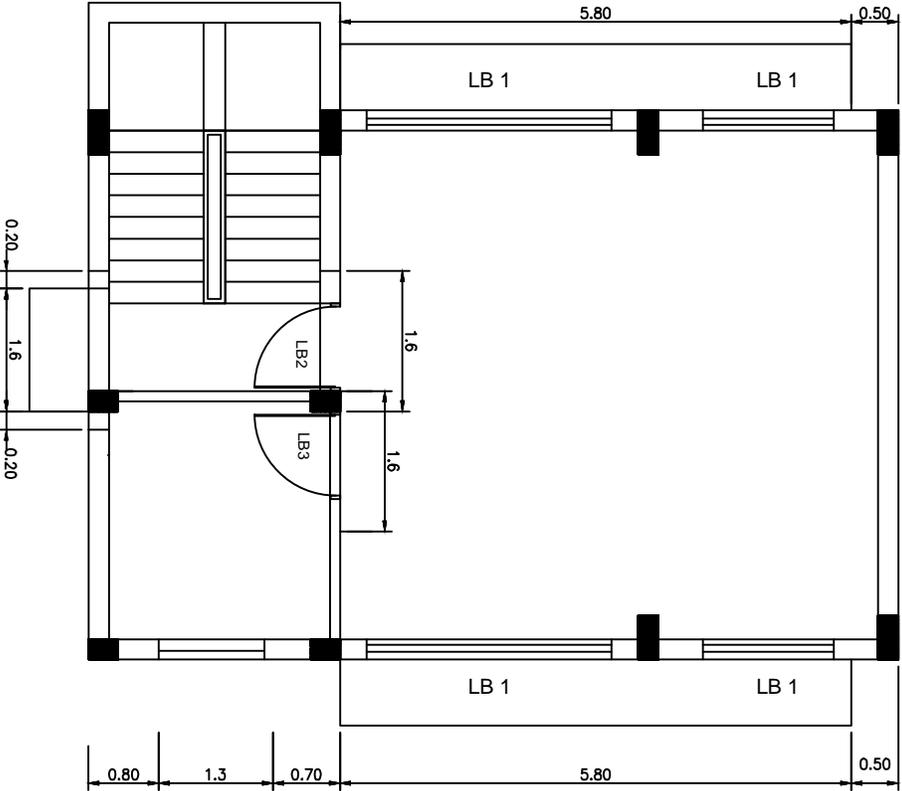
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: GROUND FLOOR LINTEL CHAJIA LAYOUT & DETAIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/09	1 OF 1	0

FIRST FLOOR LINTEL PLAN



TYPICAL SECTION

TYPICAL REINFORCEMENT OF CHAJJA

CHAJJA SLAB DETAILS

S I	TYPE	THICKNESS	MAIN R.F	DISTRIBUTION
1	CANTILEVER SLAB TYPE	120 MM	8mm@150c/c	8mm@75c/c

LINTEL BEAM DETAILS

SR. NO.	BEAM	SIZE	REINFORCEMENT		STIRRUPS DETAIL	
			TOP REINFORCEMENT	BOTTOM REINFORCEMENT	AT MID SUPPORT(S1)	AT MID SUPPORT(S2)
1.	LB1	200X300	2-10 mm ϕ	2-10 mm ϕ	8mm@150c/c	8mm@200c/c
2.	LB2	200X300	2-10 mm ϕ	2-10 mm ϕ	8mm@175c/c	8mm@225c/c
3.	LB3	100X200	2-10 mm ϕ	2-10 mm ϕ	8mm@175c/c	8mm@225c/c

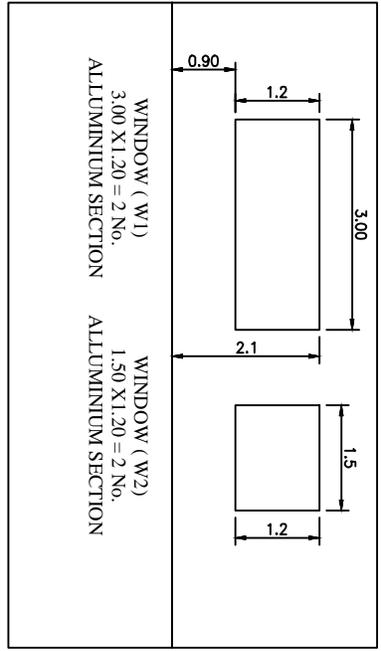
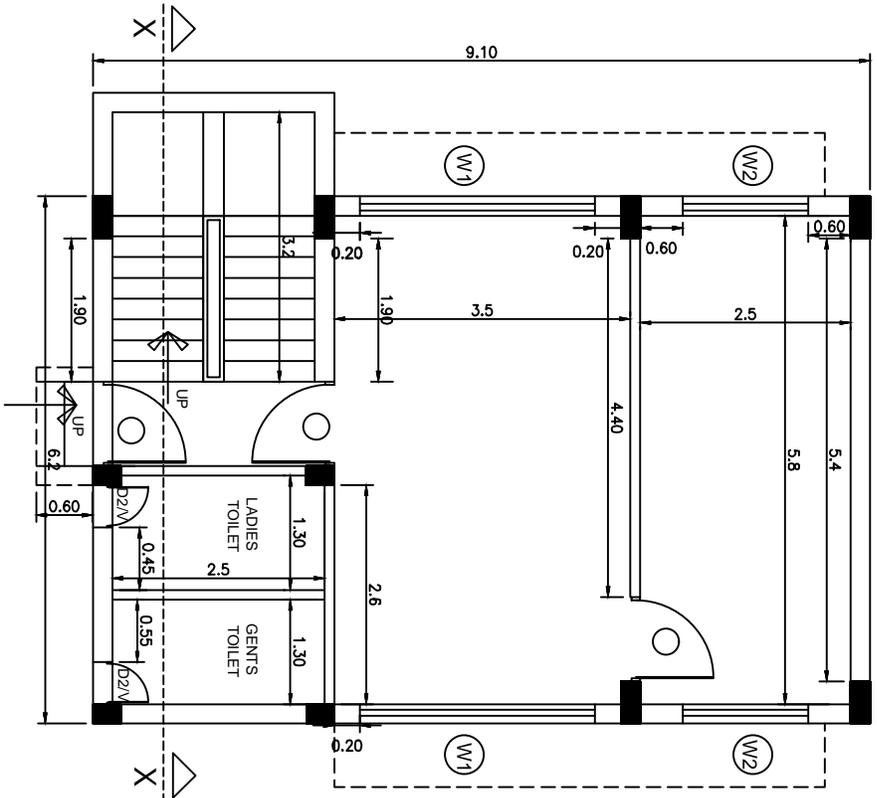
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

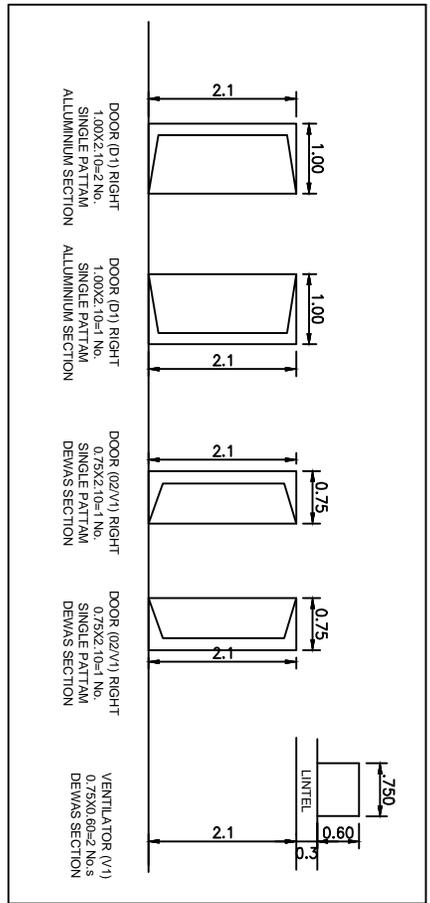
Revamped Distribution Sector Scheme (RDSS)

FIRST FLOOR LINTEL CHAJJA LAYOUT & DETAIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/10	1 OF 1	0



WINDOW FRAME DETAIL



FOR TENDER PURPOSE ONLY

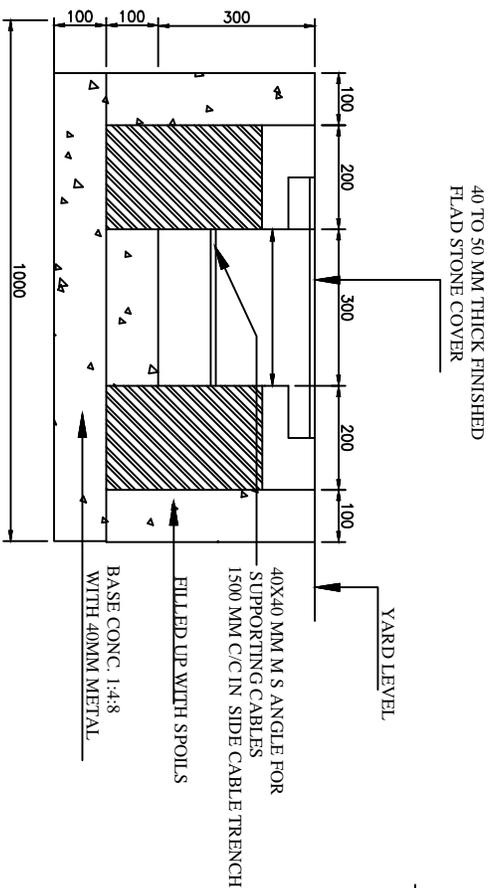


Rural Electrification Corporation Ltd.

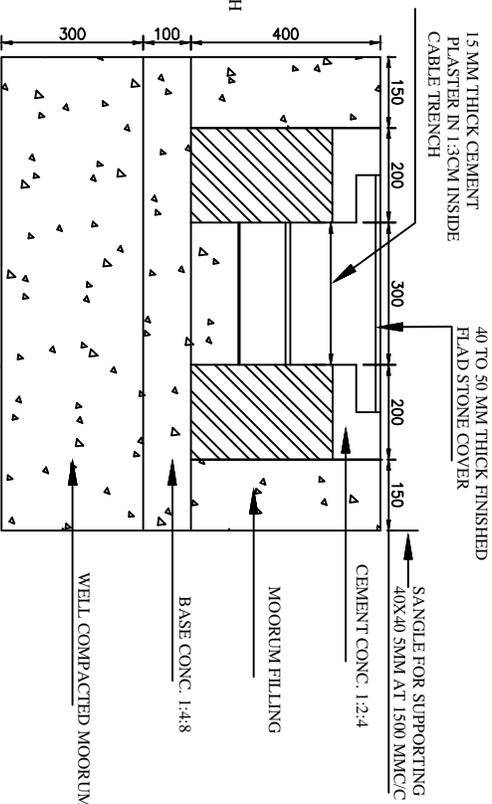
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: GROUND FLOOR WORKING & OPENING DETAIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/11	1 OF 1	0



HARD SOIL



BLACK COTTON SOIL

FOR TENDER PURPOSE ONLY



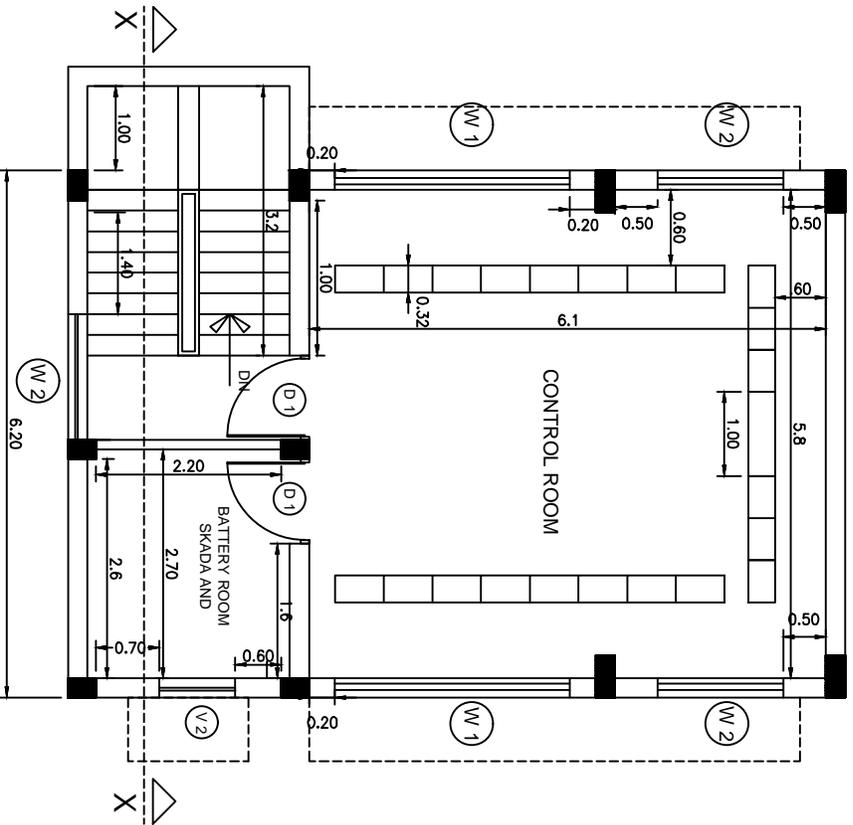
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

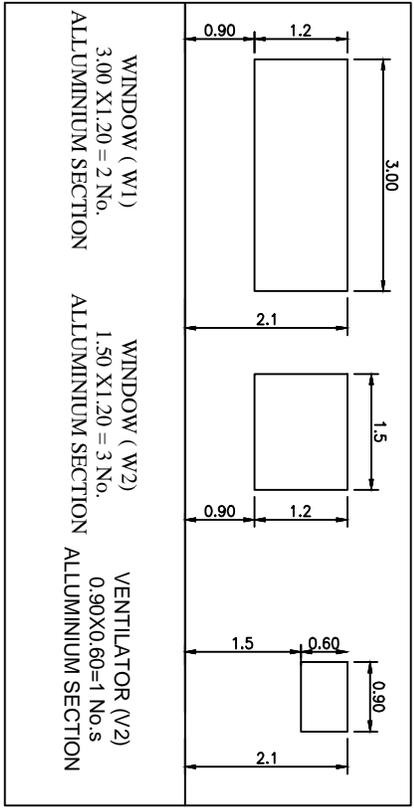
PROPOSED CABL TRENCH

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

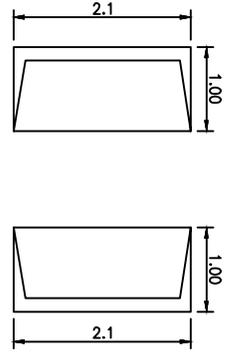
TITLE	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
PROPOSED CABL TRENCH	A4	NTS	REC/RDSS/CIVIL/12	1 OF 1	0



FIRST FLOOR WORKING PLAN



WINDOW FRAME DETAIL

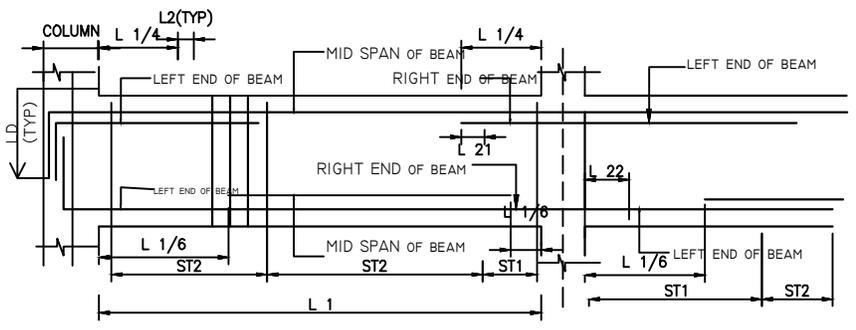


DOOR FRAME DETAIL

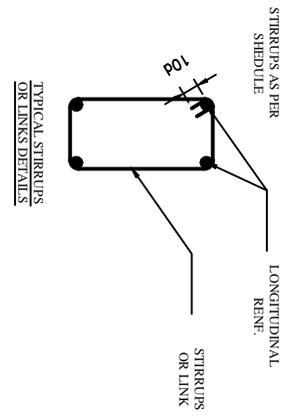
FOR TENDER PURPOSE ONLY

		3एन सी REC		Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)		SIZE: A4		SCALE: 1:100	
TITLE: FIRST FLOOR WORKING & OPENING DETAIL		DRG. NO.: REC/RDSS/CIVIL/13		SHT. NO.: 1 OF 1	
REV. NO.: 0		DATE:		REV. NO.: 0	

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



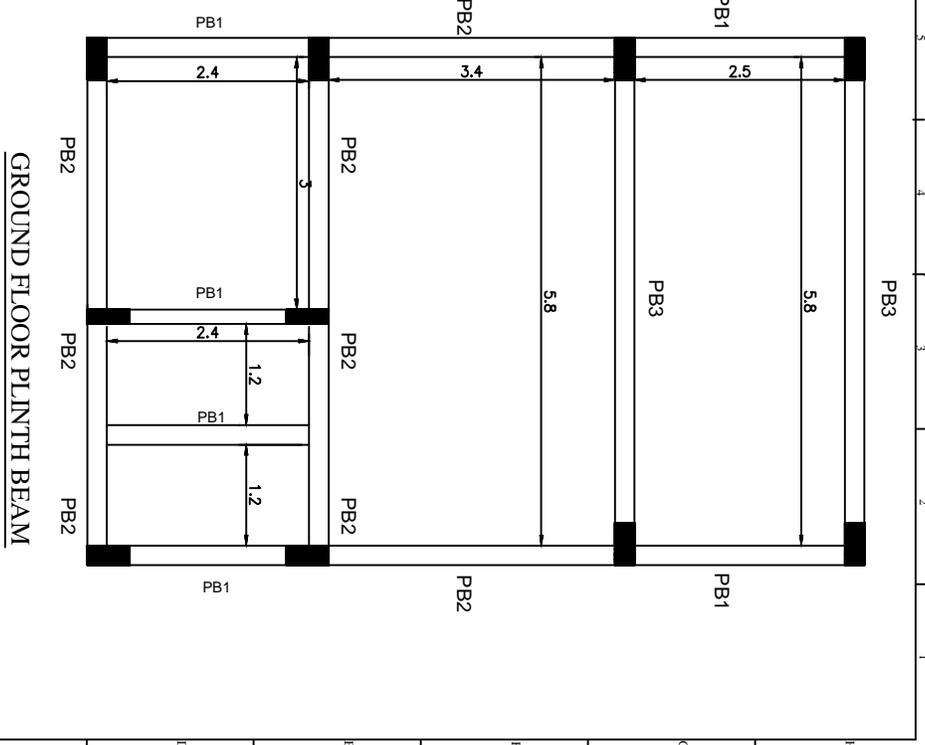
TYPICAL SECTION OF BEAM



DEVELOPMENT LENGTH - L _{DP}	L _{DP}
LD FOR HYSD BARS WITH F _y = 415 N/MM ² SQ.	L _{DP}
CONCRETE GRADE	M20
	47X D.L.A

PLINTH BEAM DETAILS

SR. NO.	BEAM	SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS DETAIL	
			CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SPAN	AT SUPPORT (ST1)	AT MID SUPPORT (ST2)
1.	PB3	200X300	2-10 mm ϕ	1-10 mm ϕ	2-10 mm ϕ	1-10 mm ϕ	8mm @ 175c/c	8mm @ 225c/c
2.	PB2	200X300	2-12 mm ϕ	2-10 mm ϕ	2-12 mm ϕ	2-10 mm ϕ	8mm @ 175c/c	8mm @ 225c/c
3.	PB1	200X500	2-16 mm ϕ	2-16 mm ϕ	2-16 mm ϕ	2-16 mm ϕ	8mm @ 150c/c	8mm @ 200c/c



GROUND FLOOR PLINTH BEAM

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

GROUND FLOOR PLINTH BEAM PLAN & DETAILS

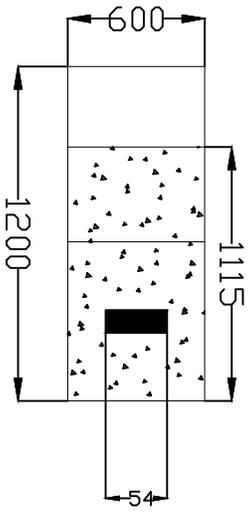
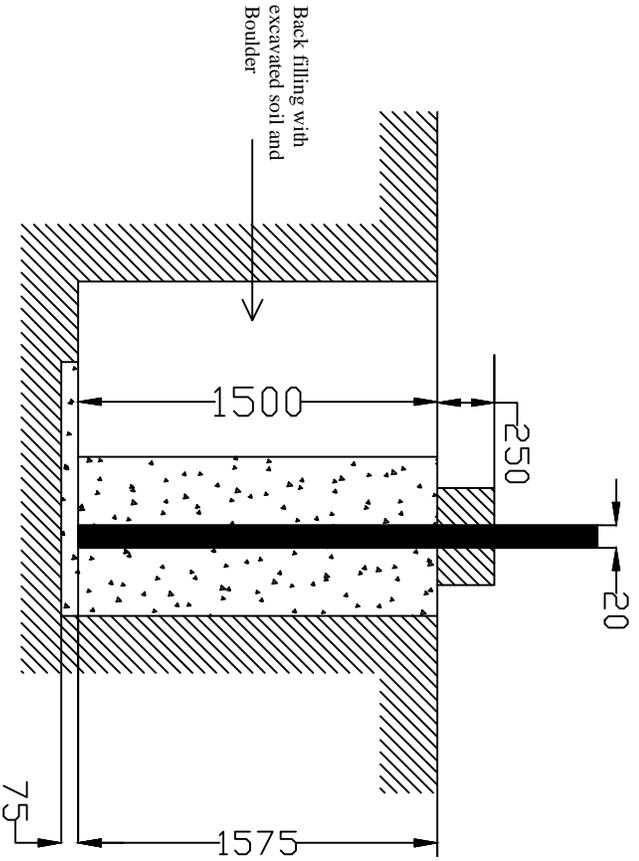
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

REC

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/CIVIL/14	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

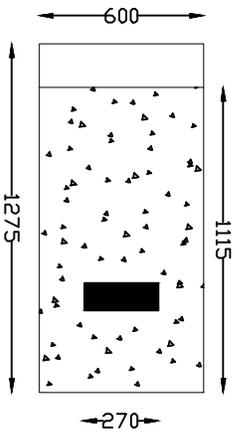
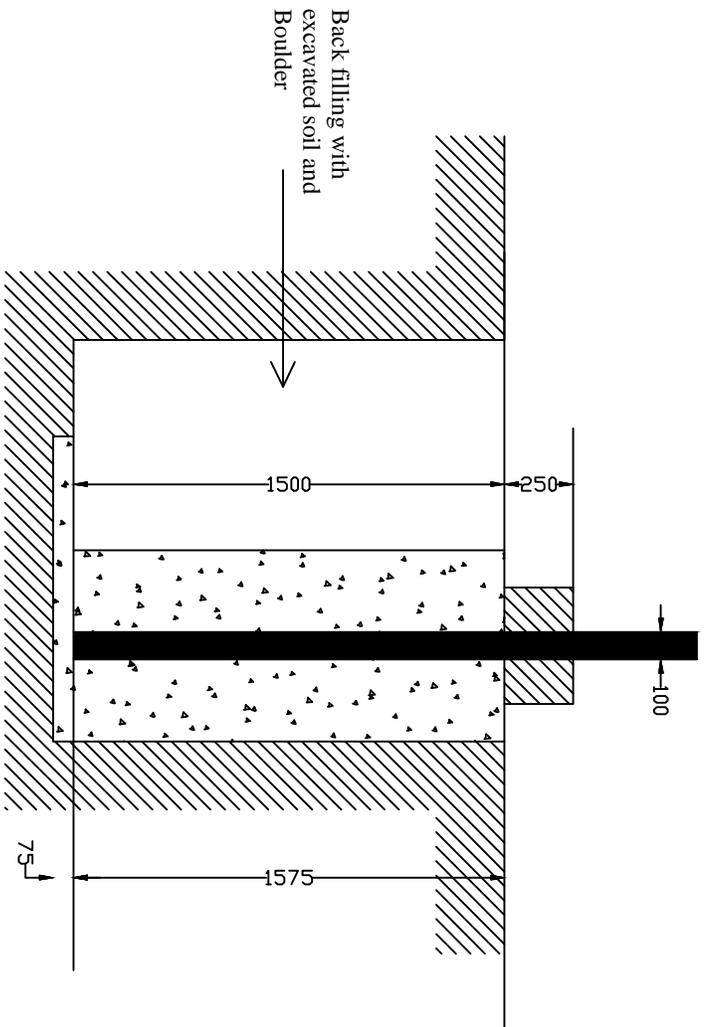
REC Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DRAWING FOR CONCRETING OF DP 8 Mtr. LONG 140 KG RCC POLE

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

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

Project: Revamped Distribution Sector Scheme (RDSS)

TITLE: DRAWING FOR CONCRETING OF PCC/PSC POLE DOUBLE STRUCTURE FOR TRANSFORMER MOUNTING

SIZE: A3

SCALE: MTS

PRG. NO. REC/RDSS/CVIL/17

SHT. NO. 1 OF 1

REV. NO. 0

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