

TENDER DRAWINGS

Index

S.No.	Title	Drawing no.
Category: 11KV/HT Drawing		
1	11KV AB Cable to Cable End Termination Arrangement	REC/RDSS/11KV/01
2	GA of 11 KV Line Crossing of Railway on DP Structure,PCC/PSC Poles	REC/RDSS/11KV/2A
3		REC/RDSS/11KV/2B
4		REC/RDSS/11KV/2C
5		REC/RDSS/11KV/2D
6	Components for 11kV Composite Line Formation on Singlr PSC/PCC Pole	REC/RDSS/11KV/03
7	GA of 11 KV Line formation at DP on PCC/PSC Poles with Components in Line arrangement	REC/RDSS/11KV/04A
8		REC/RDSS/11KV/04B
9	GA of 11KV Line Sectionalizer on PSC/PCC Pole	REC/RDSS/11KV/5A
10		REC/RDSS/11KV/5B
11	GA of 11kV Pole Extension for Single PSC/PCC Pole	REC/RDSS/11KV/6A
12		REC/RDSS/11KV/6B
13	11 KV Bridling "V" cross-arm	REC/RDSS/11KV/7
14	45KN Composite Insulator	REC/RDSS/11KV/8
15	11 KV line Conductors formation and Clearance with earth wire	REC/RDSS/11KV/09
16	11 KV line Pole Top Bracket	REC/RDSS/11KV/10
17	11 KV line tapping arrangement for SPUR line	REC/RDSS/11KV/11
18	11 KV line conductors formation and Clearances of 11 KV 3-phase/single phase composite system (Phase to Neutral)	REC/RDSS/11KV/12
19	11 KV lines conductor formation and arrangement of guys for 10 to 60 angle locations (single pole support)	REC/RDSS/11KV/13
20	11 KV lines conductor formation and arrangement of guys for dead locations (Double pole support)	REC/RDSS/11KV/14
21	GI Pin	REC/RDSS/11KV/15
22	Clevis & tongue type strain insulator set	REC/RDSS/11KV/16
23	Holding of conductor on 11 KV Pin insulator strain run(using hellically formed fittings)	REC/RDSS/11KV/17
24	Holding of conductor on 11 KV Pin insulator angle location(using hellically formed fittings)	REC/RDSS/11KV/18
25	11 KV conductor dead-end arrangement(using hellically formed fittings)	REC/RDSS/11KV/19
26	Bimetallic connector (H.T) for 11 KV Distribution transformer	REC/RDSS/11KV/20
27	General Arrangement of DC Cross Arm & Bracing with Back Cleat for 150m DP on 600 IBS PCC Pole	REC/RDSS/11KV/21
28	11 KV Bridling "V" cross-arm	REC/RDSS/11KV/22
29	11 KV "V" cross-arm	REC/RDSS/11KV/23
30	11 kV Danger Board	REC/RDSS/11KV/24
31	11kV Line Protective Guarding Across Minor Crossing	REC/RDSS/11KV/25
Category: 33 KV Drawing		
1	33 KV line pole Pole bracket	REC/RDSS/33KV/01
2	33KV VCB Foundation	REC/RDSS/33KV/02
3	33 KV line conductor formation & clearances	REC/RDSS/33KV/03
4	34 KV line pole top bracket	REC/RDSS/33KV/04
5	33 kV line arrangement of conductor at Single Pole Support (0° to 10° Deviation)	REC/RDSS/33KV/05
6	33 KV line pole Pole bracket (Side/Elevation View)	REC/RDSS/33KV/06
7	33 KV "V" cross arm	REC/RDSS/33KV/07
8	33 KV Bridling "V" cross arm (road crossing)	REC/RDSS/33KV/08

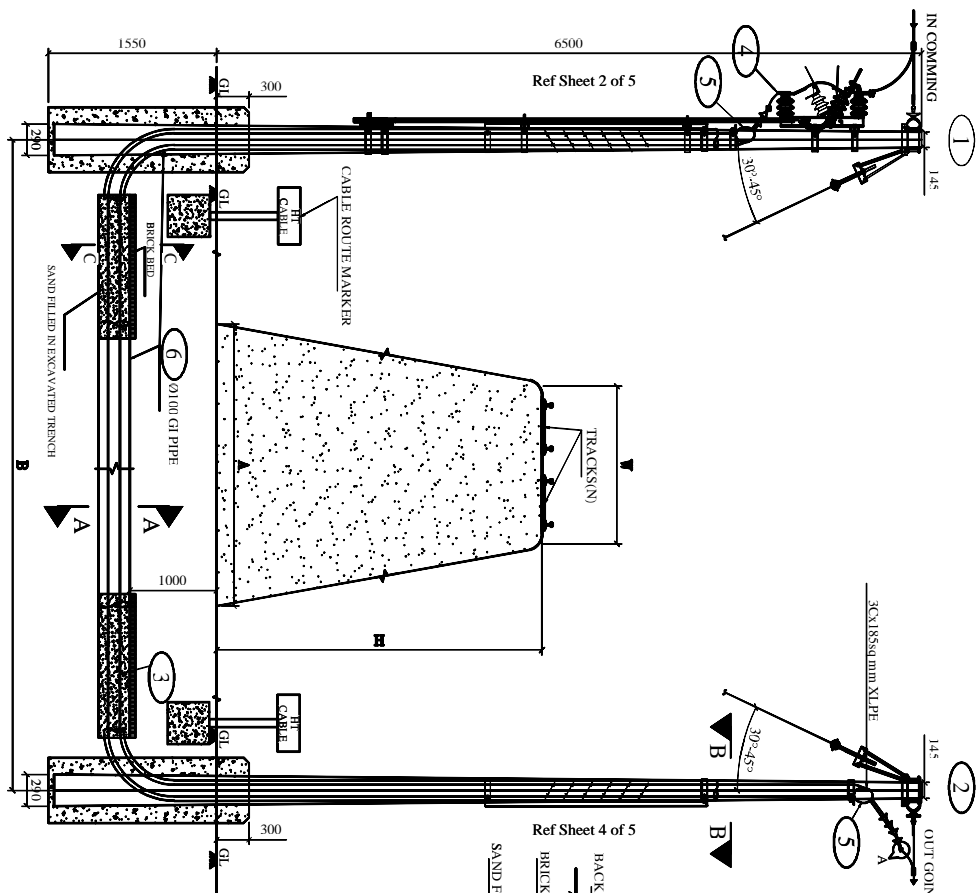
Category: DTR SS Drawings		
1	Bracket of 11kV Lightning Arrestor	REC/RDSS/DTR SS/01
2	Distribution sub-station for drop-out fuse	REC/RDSS/DTR SS/02
3	11-0.4 KV Distribution sub-station with AB switch & HG fusees	REC/RDSS/DTR SS/03
4	11-0.4 KV Distribution sub-station for online location-Along Line	REC/RDSS/DTR SS/04
5	11 KV Horn Gape fuses	REC/RDSS/DTR SS/05
6	11 KV Horn Gape fuses mounting details	REC/RDSS/DTR SS/06
7	Earthing arrangement for distribution sub-station	REC/RDSS/DTR SS/07
8	Single phase Transformer Mounting details	REC/RDSS/DTR SS/08
9	Single phase distribution sub-station arrangement (Phase to Neutral)	REC/RDSS/DTR SS/09
10	Single phase distribution sub-station arrangement ((Phase to Phase)	REC/RDSS/DTR SS/10
11	Distribution sub-station mounting arrangement of 25 KVA transformer on single pole	REC/RDSS/DTR SS/11
12	Fixing Arrangement of Meter	REC/RDSS/DTR SS/12
13	Layout of Polymer 11kV Lightning Arrestor	REC/RDSS/DTR SS/13A
14	Layout of Polymer 11kV Lightning Arrestor	REC/RDSS/DTR SS/13B
15	Layout of Polymer 11kV Lightning Arrestor	REC/RDSS/DTR SS/13C
16	4-In-1 MMB for Single Phase Meter with MOC (Multiple Outgoing Connector Box)	REC/RDSS/DTR SS/14
17	6-In-1 MMB for Single Phase Meter with MOC (Multiple Outgoing Connector Box)	REC/RDSS/DTR SS/15
18	Tamper Proof Deep Drawn Metal Meter Box for Housing 3-Phase Meter with CTs & MODEM	REC/RDSS/DTR SS/16
19	HRC Fuse Base for 63/100/200/315 KVA	REC/RDSS/DTR SS/17
20	HRC Fuse Link	REC/RDSS/DTR SS/18
21	Details of Link Disconnecter for 63/100/200/315 KVA Distribution Box	REC/RDSS/DTR SS/19
22	10KVA & 16KVA LT Distribution Box with MCCBs (Deep Drawn Type)	REC/RDSS/DTR SS/20
23	LT Distribution Box for 200KVA	REC/RDSS/DTR SS/21
24	LT Distribution Box with Assembly Details for 315KVA	REC/RDSS/DTR SS/22
25	LT Distribution Box with Assembly Details for 63/100KVA	REC/RDSS/DTR SS/23
26	16KVA & 25KVA 3-Phase LT Distribution Box with MCCBs (Deep Drawn Type)	REC/RDSS/DTR SS/24
27	Bimetallic Lugs	REC/RDSS/DTR SS/25
28	LT Distribution Box for Single Phase ABC	REC/RDSS/DTR SS/26
29	Deep Drawn Type 3 Phase LT Distribution Box for AB Cable	REC/RDSS/DTR SS/27
30	Pillar Box with Inside Details of Meter Mounting Arrangement	REC/RDSS/DTR SS/28
31	Metal Meter Box for 1-Phase Meter (Deep Drawn Method)	REC/RDSS/DTR SS/29
32	Metal Meter Box for 3-Phase Meter (Deep Drawn Method)	REC/RDSS/DTR SS/30
Category: 33/11KV PSS Layout		
1	Structure Detail of 11KV PI	REC/RDSS/33/11kV PSS Layout/01
2	Structure Detail of 11KV Isolator	REC/RDSS/33/11kV PSS Layout/02
3	Structure Detail of 11KV LA	REC/RDSS/33/11kV PSS Layout/03
4	Foundation Detail of 11KV VCB & CT	REC/RDSS/33/11kV PSS Layout/04
5	Structure Detail of 33KV HG Fuse	REC/RDSS/33/11kV PSS Layout/05
6	Structure Detail of 33KV Isolator	REC/RDSS/33/11kV PSS Layout/06

7	Structure Detail of 33KV LA	REC/RDSS/33/11kV PSS Layout/07
8	Structure Detail of 33KV PI	REC/RDSS/33/11kV PSS Layout/08
9	Foundation Detail of 33KV VCB & CT	REC/RDSS/33/11kV PSS Layout/09
10	Foundation Detail of 33KV ISO, HG Fuse and 11KV ISO	REC/RDSS/33/11kV PSS Layout/10
11	Layout of Earthing in ADD. 33/11kV S/s for Murram Soil	REC/RDSS/33/11kV PSS Layout/11A
12	Layout of Earthing in New 33/11kV S/s for Murram Soil	REC/RDSS/33/11kV PSS Layout/11B
13	Layout of Earthing in ADD. 33/11kV S/s for Hard Rock	REC/RDSS/33/11kV PSS Layout/12A
14	Layout of Earthing in New 33/11kV S/s for Hard Rock	REC/RDSS/33/11kV PSS Layout/12B
15	Layout of Earthing in ADD. 33/11kV S/s for Black Cotton Soil	REC/RDSS/33/11kV PSS Layout/13A
16	Layout of Earthing in New 33/11kV S/s for Black Cotton Soil	REC/RDSS/33/11kV PSS Layout/13B
17	33 KV Beam Structure	REC/RDSS/33/11kV PSS Layout/14A
18	11 KV Beam Structure	REC/RDSS/33/11kV PSS Layout/14B
19	33 KV Tower Structure Marked T1	REC/RDSS/33/11kV PSS Layout/15
20	Septic Tank & Soak Pit Details	REC/RDSS/33/11kV PSS Layout/16
21	Details of RCC Road and Drain	REC/RDSS/33/11kV PSS Layout/17
22	G.A. of Control Building	REC/RDSS/33/11kV PSS Layout/18
23	Details Of Cable Trenches (Inside Control Room)	REC/RDSS/33/11kV PSS Layout/19A
24	Details Of Cable Trenches (Switchyard Area)	REC/RDSS/33/11kV PSS Layout/19B
25	Detail Of Bondary Wall For Switchyard With Entrance Gate	REC/RDSS/33/11kV PSS Layout/20A
26	Detail Of Fencing For Switchyard With Gate Arrangement	REC/RDSS/33/11kV PSS Layout/20B
27	Details of Girder Type"G2"	REC/RDSS/33/11kV PSS Layout/21
28	Single Line Diagram of 1x3.15MVA (Type-A) 33/11KV Substation with Indoor 11kV Switchgear	REC/RDSS/33/11kV PSS Layout/22A
29	Single Line Diagram of 1x5MVA (Type-B) 33/11KV Substation with Indoor 11kV Switchgear	REC/RDSS/33/11kV PSS Layout/22B
30	Single Line Diagram of 2x5MVA (Type-C) 33/11KV Substation with Indoor 11kV Switchgear	REC/RDSS/33/11kV PSS Layout/22C
31	Layout Section of 33/11 KV Substation	REC/RDSS/33/11kV PSS Layout/23
32	Details of Girder Type"G3"	REC/RDSS/33/11kV PSS Layout/24
33	Details of Girder Type"G1"	REC/RDSS/33/11kV PSS Layout/25
34	Details of Girder Type"G4"	REC/RDSS/33/11kV PSS Layout/26
35	33-11 KV sub-station metering arrangement	REC/RDSS/33/11kV PSS Layout/27
36	33/11 KV Substation Single line diagram-SLD	REC/RDSS/33/11kV PSS Layout/28
37	Structure Details of Tower Type-"T1"	REC/RDSS/33/11kV PSS Layout/29
38	Structure Details of Tower Type-"T2"	REC/RDSS/33/11kV PSS Layout/30A
39	Structure Details of Tower Type-"T2A"	REC/RDSS/33/11kV PSS Layout/30B
40	Structure Details of Tower Type-"T3"	REC/RDSS/33/11kV PSS Layout/31A
41	Structure Details of Tower Type-"T3A"	REC/RDSS/33/11kV PSS Layout/31B
Category: LT AB Cable		
1	Stainless Steel Straps (20x0.7) & Buckles	REC/RDSS/LT-ACC-ABC/01
2	Universal Pole Bracket	REC/RDSS/LT-ACC-ABC/02
3	Anchoring Assembly (Cable Range 25-50 sqmm.)	REC/RDSS/LT-ACC-ABC/03A
4	Anchoring Assembly (Cable Range 70-95 sqmm.)	REC/RDSS/LT-ACC-ABC/03B

5	Service Clamp	REC/RDSS/LT-ACC-ABC/04
6	Multiport Insulation Piercing Connector Stripping/Piercing	REC/RDSS/LT-ACC-ABC/05A
7	Insulation Piercing Connector	REC/RDSS/LT-ACC-ABC/05B
8	Earthing Connector	REC/RDSS/LT-ACC-ABC/06A
9		REC/RDSS/LT-ACC-ABC/06B
10	Suspension Assembly (Cable Range 25-70 sqmm.)	REC/RDSS/LT-ACC-ABC/07A
11	Suspension Assembly (Cable Range 25-50 sqmm.)	REC/RDSS/LT-ACC-ABC/07B
12	Suspension Assembly (Cable Range 70-95 sqmm.)	REC/RDSS/LT-ACC-ABC/07C
Category: General Drawing		
1	Concrete (PCC) Foundation Details for PSC Poles	REC/RDSS/GEN/01
2	Foundation Details of PCC/PSC Pole	REC/RDSS/GEN/02
3	Pin Insulator	REC/RDSS/GEN/03
4	Pipe Type Earthing Details	REC/RDSS/GEN/04
5	RCC Base PAD For PCC/PSC Pole	REC/RDSS/GEN/05A
6	Stone/RCC Base Plate For Base Padding Of PCC/PSC Pole	REC/RDSS/GEN/05B
7	Stone/RCC Base Plate For stay set	REC/RDSS/GEN/05C
8		REC/RDSS/GEN/05D
9	Service Connection Single Phase	REC/RDSS/GEN/06
10	Spike Type Earthing for Normal Soil	REC/RDSS/GEN/07
11	Spiral/Coil Earthing Details	REC/RDSS/GEN/08
12	Stay Set Arrangement on PCC/PSC Pole	REC/RDSS/GEN/09A
13	Stay Set Arrangement on PCC/PSC Pole	REC/RDSS/GEN/09B
14	Strut Arrangement	REC/RDSS/GEN/10
15	Cable Trench Layout 500 mm	REC/RDSS/GEN/11A
16	Cable Trench Layout 750 mm	REC/RDSS/GEN/11B
17	Guy end assembly (using Helically formed Fitting)	REC/RDSS/GEN/12
18	Guying arrangement of single and double guy	REC/RDSS/GEN/13
19	Details of MS Gate	REC/RDSS/GEN/14
20	Pole pit for PCC Pole for normal Soil	REC/RDSS/GEN/15
Category: LT-OH Drawing		
1	433V Danger Board	REC/RDSS/LT/01
2	GA & Component Details of AB Cable Connections And Tappimng Arrangement	REC/RDSS/LT/02A
3		REC/RDSS/LT/02A
4	GA of LT Line Formation on Single (Dead End Arrangement) With LT AB Cable	REC/RDSS/LT/03
5	GA of LT Line Formation on Single (In Line Arrangement) With LT AB Cable	REC/RDSS/LT/04
6	GA of LT Line Vertical Formation on Single (At Dead End) 1Ph, 2Wire	REC/RDSS/LT/05
7	GA of LT Line Vertical Formation on Single (In Angular Arrangement) 1Ph, 2Wire	REC/RDSS/LT/06
8	GA of LT Line Vertical Formation on Single (In Line Arrangement) 1Ph, 2Wire	REC/RDSS/LT/07A
9		REC/RDSS/LT/07B
10	415/240 V lines conductor formation and clearances horizontal formation	REC/RDSS/LT/08

11	415/240V line supports Vertical formation	REC/RDSS/LT/09
12	415/240V line supports Horizontal formation	REC/RDSS/LT/10
13	Arrangement of LT conductors at angle location 415/ 240 volts lines (cross country) horizontal formation	REC/RDSS/LT/11
14	415/240 V Lines conductor formation and clearance, 3 Ø, 4 W(horizontal formation)	REC/RDSS/LT/12
15	415/240 V Lines conductor formation and clearance, 3 Ø, 4 W(vertical formation)	REC/RDSS/LT/13
16	415/240 V Lines conductor formation and clearance, 3 Ø, 4 W(Vertical formation)	REC/RDSS/LT/14
17	415/240 V Lines conductor formation and clearance, 1 Ø, 3W (Vertical formation)	REC/RDSS/LT/15
18	Earth Knob for L.T line	REC/RDSS/LT/16
19	415/240 V Lines conductor formation and arrangement of guys for 0 ° To 10 ° angle locations, (3 Ø, 4 W, Horizontal formation)	REC/RDSS/LT/17
20	415/240 V Lines conductor formation and arrangement of guys for 30 ° To 60 ° angle locations, (3 Ø, 4 W, Horizontal formation)	REC/RDSS/LT/18
21	415/240 V Lines conductor formation and arrangement of guys for 60 ° To 90 ° angle locations, (3 Ø, 4 W, Horizontal formation)	REC/RDSS/LT/19
22	415/240 V Lines conductor formation and arrangement of guys for dead end locations, (3 Ø, 4 W, Horizontal formation)	REC/RDSS/LT/20
23	415/240 V Lines conductor formation and arrangement of guys for 0 ° To 10 ° angle locations, (3 Ø, 4 W, Horizontal formation)	REC/RDSS/LT/21
24	415/240 V Lines conductor formation and arrangement of guys for 10 ° To 30 ° angle locations, (3 Ø, 5 W, Horizontal formation)	REC/RDSS/LT/22
25	415/240 V Lines conductor formation and arrangement of guys for 30 ° To 60 ° angle locations, (3 Ø, 5 W, Horizontal formation)	REC/RDSS/LT/23
26	415/240 V Lines conductor formation and arrangement of guys for 60 ° To 90 ° angle locations, (3 Ø, 5 W, Horizontal formation)	REC/RDSS/LT/24
27	415/240 V Lines conductor formation and arrangement of guys for dead end locations, (3 Ø, 5 W, Vertical formation)	REC/RDSS/LT/25
28	415/240 V Lines conductor formation and arrangement of guys for dead end locations, (3 Ø, 4 W, Vertical formation)	REC/RDSS/LT/26
29	415/240 V Lines conductor formation and arrangement of guys for dead end locations, (3 Ø, 4 W, Vertical formation)	REC/RDSS/LT/27
30	415/240 V shackle insulator	REC/RDSS/LT/28
31	415/240 V insulator and hardware fittings for type-2 shackle insulators	REC/RDSS/LT/29
32	415/240 V insulator and hardware fittings for type-1 shackle insulators	REC/RDSS/LT/30
33	Finished joint using service connector	REC/RDSS/LT/31
34	Application of Epoxy compound on T-joint for L.T service connections	REC/RDSS/LT/32
35	Hellical formed fittings lashing rods	REC/RDSS/LT/33
36	Hellical formed fittings T-connector	REC/RDSS/LT/34
37	Hellical formed fittings splice for ACSR joint	REC/RDSS/LT/35
38	Crimp joint for L.T service connection	REC/RDSS/LT/36
Category: Control Room		
1	Proposed Double storey Control Room Layout plan of 33/11kV substation in Rural Substation	REC/RDSS/Control Room/01A
2	Proposed Double storey Control Room Layout plan of 33/11kV substation in City/Town Zone	REC/RDSS/Control Room/01B
3	Proposed Double storey Control Room Layout plan of 33/11kV substation in City/Town Zone	REC/RDSS/Control Room/01C
Category: Civil Works		
1	First Floor Slab Beam & Details	REC/RDSS/CIVIL/01
2	Ground Floor Slab Beam & Details	REC/RDSS/CIVIL/02
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
6	Elevation & Section-XX	REC/RDSS/CIVIL/06
7	Centre Line with Column Layout & Footing Details	REC/RDSS/CIVIL/07
8	Stair Detail	REC/RDSS/CIVIL/08

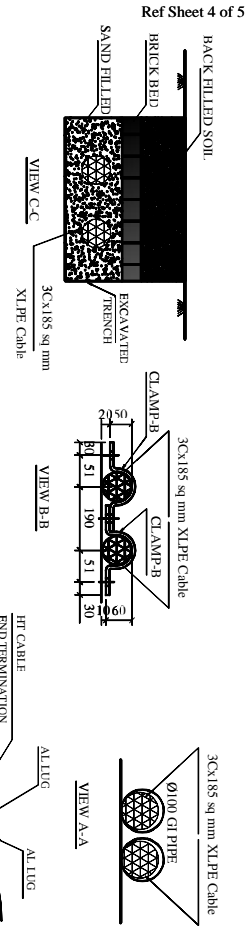
9	Ground Floor Lintel Chajja Layout & Detail	REC/RDSS/CIVIL/09
10	First Floor Lintel Chajja Layout & Detail	REC/RDSS/CIVIL/10
11	Ground Floor Working & Opening Detail	REC/RDSS/CIVIL/11
12	Proposed Cable Trench	REC/RDSS/CIVIL/12
13	First Floor Working & Opening Detail	REC/RDSS/CIVIL/13
14	Ground Floor Plinth Beam Plan & Detail	REC/RDSS/CIVIL/14
15	Concreting of PCC/PCC Pole	REC/RDSS/CIVIL/15
16	Concreting of stay set for 11kV & LT line	REC/RDSS/CIVIL/16
17	Concreting of PSC/PCC Pole for Transformer Mounting	REC/RDSS/CIVIL/17



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(3Cxl85sqmm)	As Req.	Two Runs
4	AI 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)

NAME OF THE BRANCH LINE	LENGTH IN METRES					
	A	B	H	W	N	
ATTABIRA TO SAMBALPUR	8.5	45	6	2.5	2	
BARGARH TO ATTABIRA	8.5	45	6	2.5	2	
BARGARH TO BARPAJI	8.5	45	6	2.5	1	
BARGARH TO BARPAJI	8.5	45	6	2.5	2	
BARGARH ACC. TO DUNGURI	24	24	5	2.5	1	
BARGARH ACC TO DUNGURI	24	24	5	2.5	1	

RAILWAY CROSSING DETAILS



NOTES:-

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

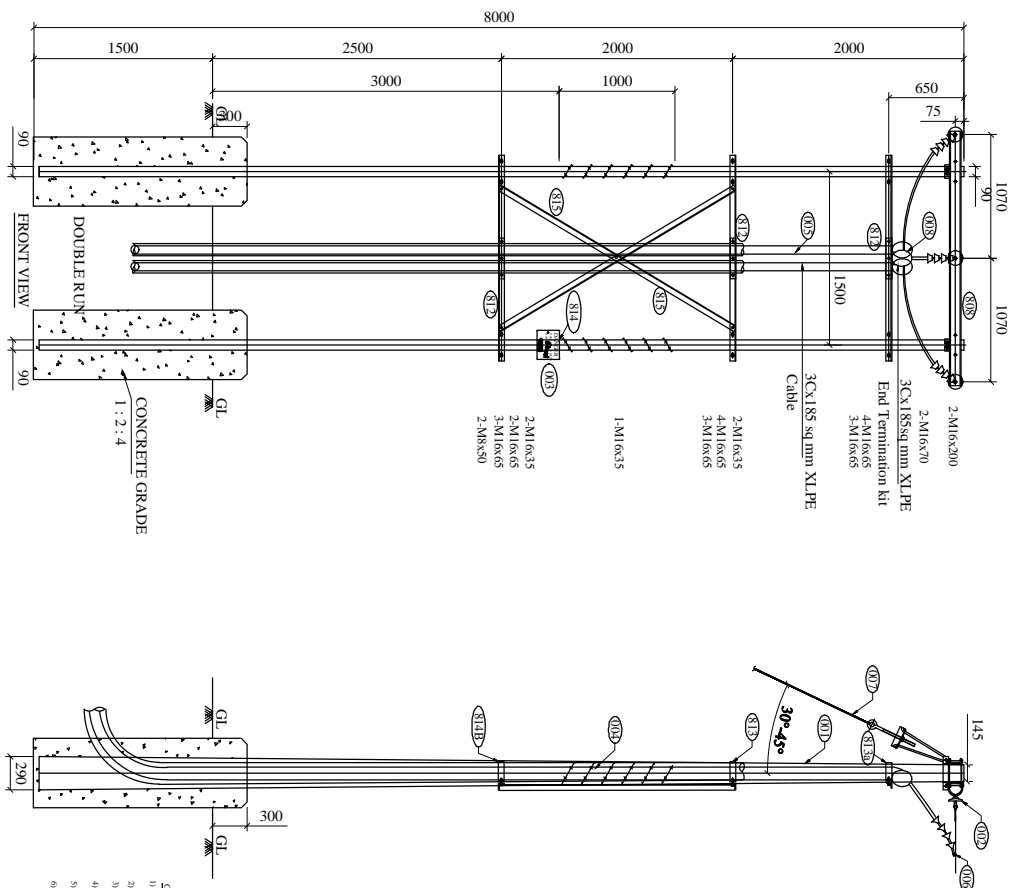
A- WIDTH OF TRACK BOTTOM
B- RAIL WAY BOUNDARY
H- HEIGHT OF RAIL TRACK
W- WIDTH OF RAIL TRACK TOP

FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)				GA OF 11 KV LINE CROSSING OF RAIL WAY USING 3c X 185 SQMM XLP CABLE ON DP STRUCTURE PCC/PSC POLES	
TITLE: F		SCALE: NTS		DRG NO: REC/RDSS/11KV/02A	
DATE:		SIZE: A3		REV. NO: R0	
PROJECT		DATE		SFT NO: 1 OF 1	
REV. NO	PREPARED BY	CHECKED BY	APPROVED BY		
RD	GRE	RWG			





- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 - 2) FOR BATTING BEF. BEGINS IN SCL. BE. CEN. 006
 - 3) FOR PENETRATION DETAILS BEF. BEG. NO. IN SCL. BE. CEN. 009
 - 4) ALL CHANNELS & ANGLES SHALL CONFORM TO IS 2062
 - 5) ALL MS PARTS SHALL CONFORM TO IS 2062
 - 6) ALL MS PARTS SHALL BE HOT DIP GALVANIZED AS PER IS 2092 & IS 4759

BILL OF MATERIALS						
ERE CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	WT./Mtr. (kg./Mtr.)	Total Wt. (in Kg.)
001	8mm/200xg FSC Pole			2		
002	11KV Disc Insulator with Hardware			3		
003	11 KV Dangle Board			1		
004	Batted wire			As Req		
005	P/S Clamps			3		
007	Stay Set Arrangement			2		
808	Top Channel	100x50	2200	2	7.9	34.76
812	Belling Angle	50x50x6	1771	3	4.5	23.91
815	Bracing Angle	50x50x6	2247	2	4.5	21.12
809	Flah Plate	50x8	300	6	3.14	5.65
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	349	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 ALP 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	0.164	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
	Spring Washers	M8		2	0.002	0.004
	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

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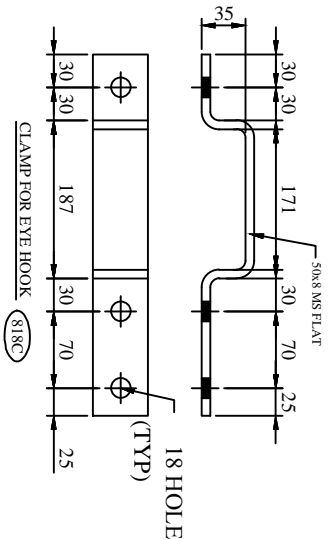
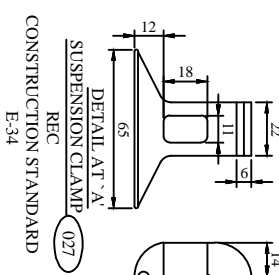
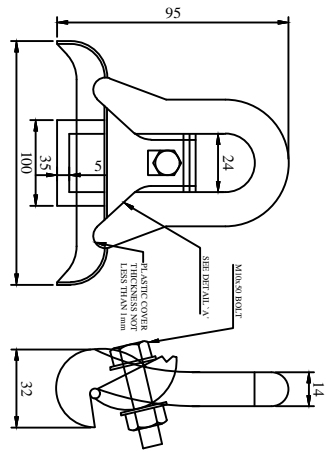
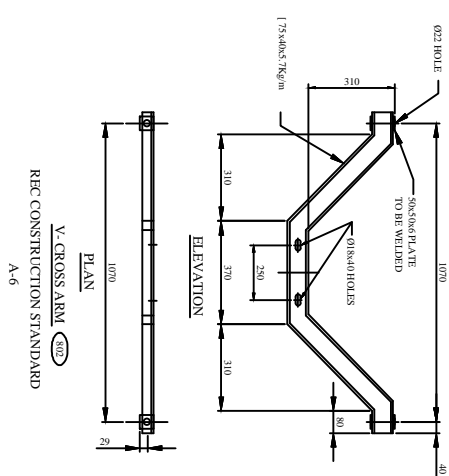
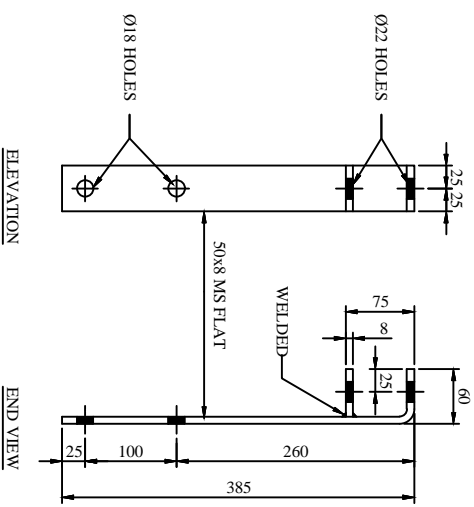
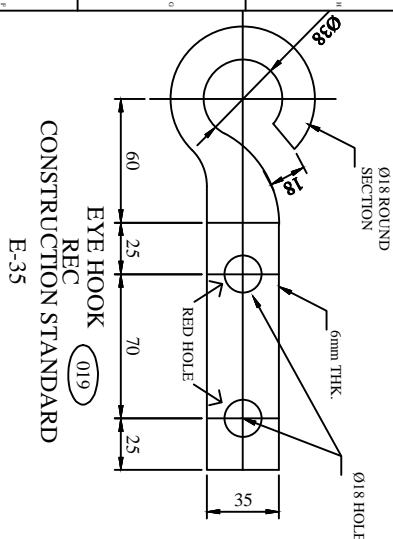
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

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

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

SCALE	DRG. NO.	REV. NO.
NTS		R0
A3	REC/RDSS/11KV/2D	1 OF 4



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

FOR TENDER PURPOSE ONLY

अर ई सी REC

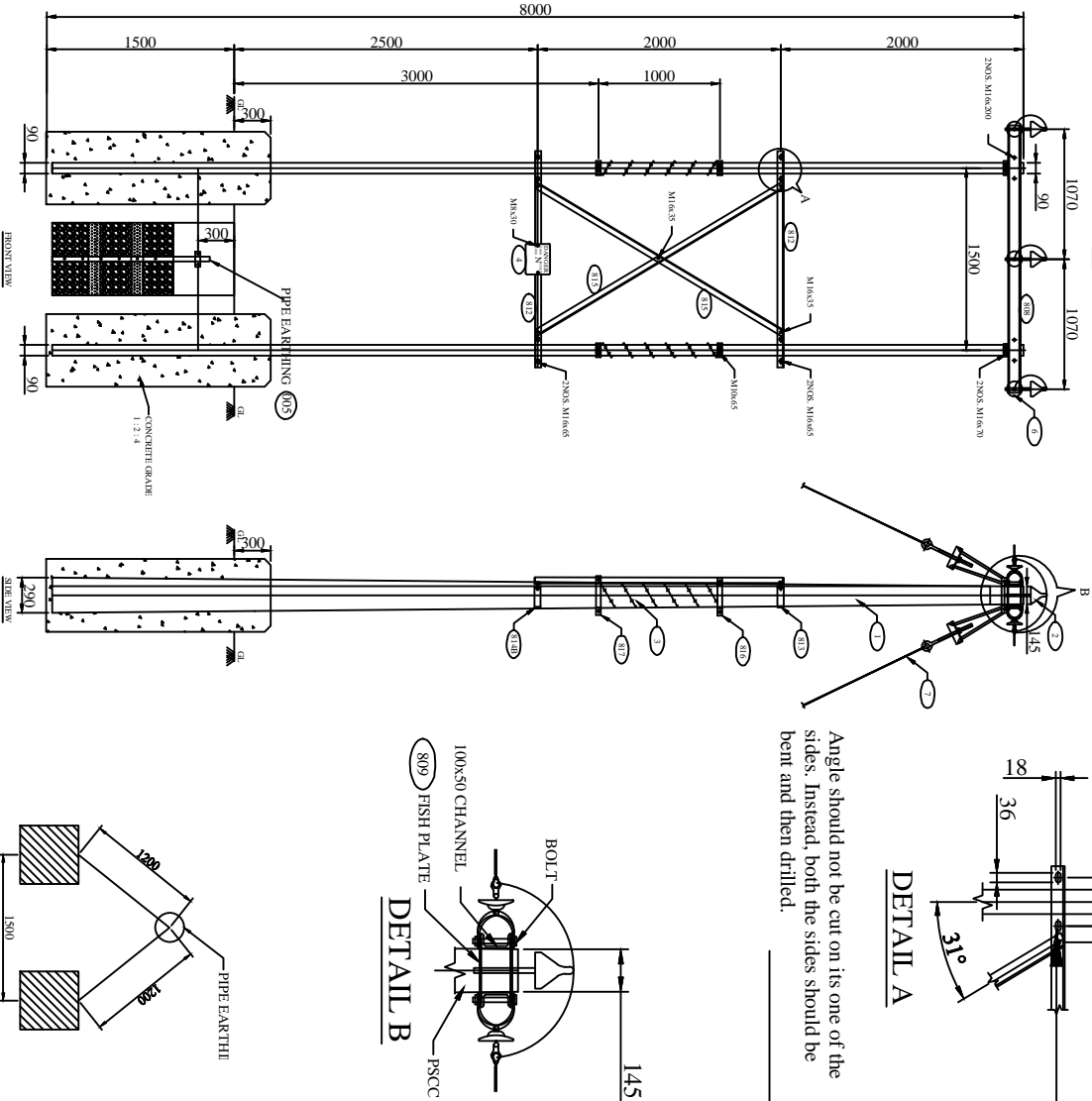
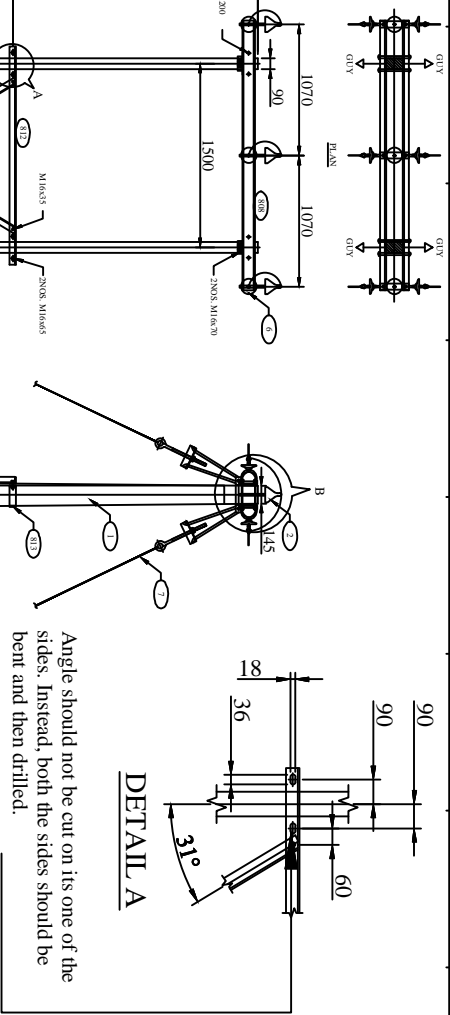
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

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




BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	RM2000G PSCC POLE	2 NOS.	REC-XII Plan-GEN-001A
2	11KV PIN INSULATOR WITH GIPINS	3 NOS.	
3	BARBED WIRE	7000MM	
4	11KV DANGER BOARD	1 NO.	REC-XII Plan-11KV-022
5	PPE EARTHING	1 SET	REC-XII Plan-GEN-006
6	11KV DISK INSULATORS WITH HW	6 NOS.	
7	STAY SET ARRANGEMENT	4SET	REC-XII Plan-GEN-007
8	TOP CHANNELS (100x50)	2 NOS.	REC-XII Plan-11KV-002
812	BELTING ANGLES(50x50x6)	2 NOS.	REC-XII Plan-11KV-002
815	BOLTING ANGLES(50x50x6)	2 NOS.	REC-XII Plan-11KV-002
890	FISH PLATE	6 NOS.	REC-XII Plan-11KV-002
816	TOP CLAMPS FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-11KV-002
817	BOTTOM CLAMPS FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-11KV-002
813	CLAMP A FOR BELTING ANGLE	2 NOS.	REC-XII Plan-11KV-002
814B	CLAMP B FOR BELTING ANGLE	2 NOS.	REC-XII Plan-11KV-002
810	CLAMP FOR STAY SET	4 NOS.	REC-XII Plan-11KV-002
	BOLTS AND NUTS	AS REQD.	

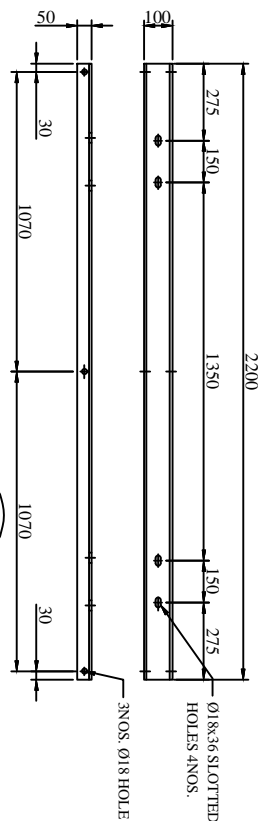
NOTES:-

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

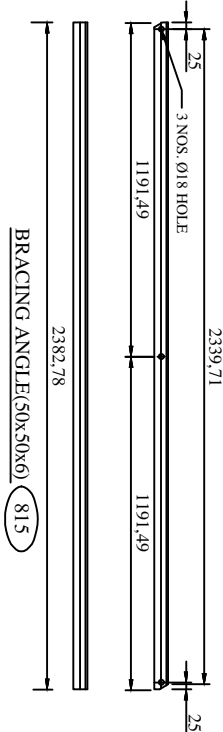
FOR TENDER PURPOSE ONLY

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

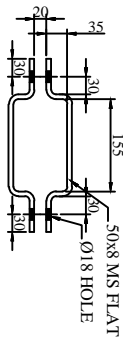
R0	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
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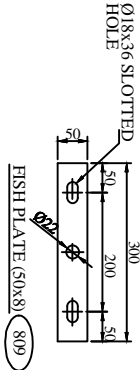
TOP CHANNEL (100x50) (808)



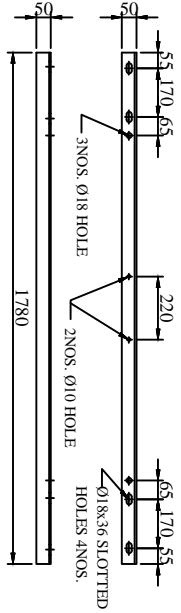
BRACING ANGLE (50x50x6) (815)



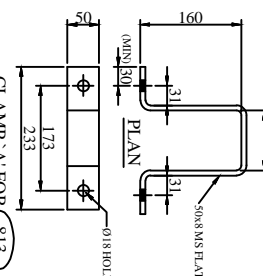
PLAN CLAMP FOR STAY SET (50x8)



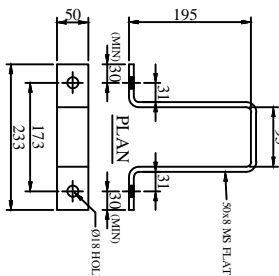
FISH PLATE (50x8) (809)



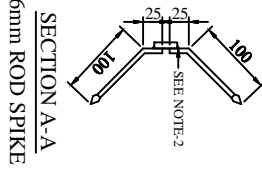
BELTING ANGLE (50x50x6) (812)



CLAMP 'A' FOR (813) BELTING ANGLE (50x8)



CLAMP 'B' FOR (814B) BELTING ANGLE (50x8)



SECTION A-A 6mm ROD SPIKE

BILL OF MATERIAL					
EE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
808	TOP CHANNEL	100x50	M.S.	2200	2 NOS
812	BELTING ANGLE	50x50x6	M.S.	1780	4.5
815	BRACING ANGLE	50x50x6	M.S.	2383	4.5
809	FISH PLATE	50x8	M.S.	300	3.14
816	TOP CLAMP FOR STAY SET CLAMPING DEVICE	40x5	M.S.	394	1.40
817	BOTTOM CLAMP FOR STAY CLAMPING DEVICE	40x5	M.S.	412	1.40
813	CLAMP 'A' FOR BELTING ANGLE	50x8	M.S.	355	3.14
814B	CLAMP 'B' FOR BELTING ANGLE	50x8	M.S.	405	3.14
810	CLAMP FOR STAY SET	50x8	M.S.	350	3.14
	SPIKE	6mm ROD	M.S.	125	0.22
TOTAL					97.774

SR NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.	TOTAL WT. KG.
10	NUTS & BOLTS	M16		200	4 NOS	1.50
11	NUTS & BOLTS	M16		45	12 NOS	1.98
12	NUTS & BOLTS	M10		35	5 NOS	0.58
13	NUTS & BOLTS	M10		40	8 NOS	0.48
14	NUTS & BOLTS	M8		20	2 NOS	0.18
15	SPRING WASHERS	M16		3.5 THICK	21 NOS	0.025
16	SPRING WASHERS	M10		3.5 THICK	8 NOS	0.008
17	SPRING WASHERS	M16		3 THICK	21 NOS	0.015
18	PLAN WASHER	M10		3 THICK	8 NOS	0.008
19	PLAN WASHER	M8		3 THICK	2 NOS	0.004
20	PLAN WASHER	M8		3 THICK	2 NOS	0.004
TOTAL						5.189

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FOR TENDER PURPOSE ONLY

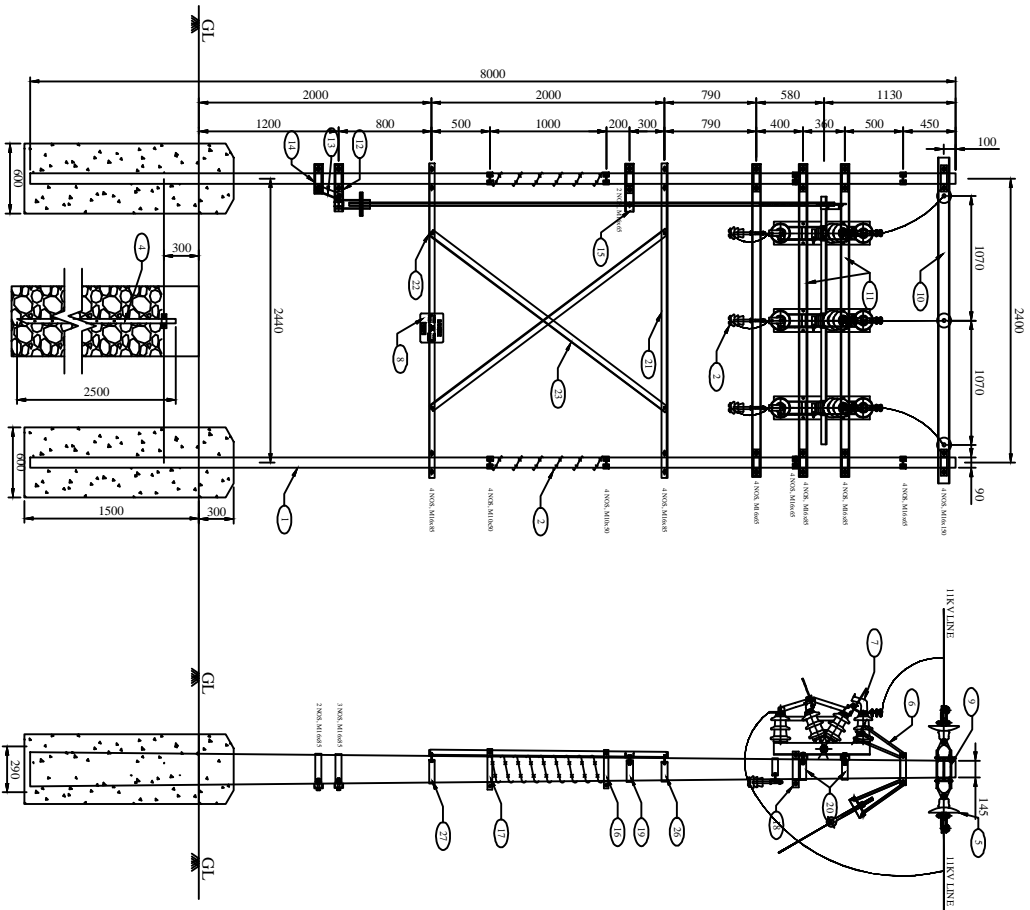
REC **आर ई सी**
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

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



BILL OF MATERIALS		
SER. NO.	DESCRIPTION	SECTION QTY.
1	500.00G. PCC POLE	2 NOS.
2	1.1KV PIN INSULATOR WITH GL PINS	3.8MT
3	100MM WIRE	3.5m x 2
4	WIRE BANDING	3.8MT
5	11KV STRIPAD INSULATOR	6.8MT
6	STAY WIRE ANCHORMENT	4.8MT
7	11KV 600A AIR BREAK SWITCH	1.8MT
8	11KV DANGER BOARD	1 NOS.
9	FIRER KIT	6 NOS.
10	TOP CHANNEL (1.100x50)	100x50
11	A.B. SWITCH MOUNTING CHANNEL (75x40)	75x40
12	CHANNEL SUPPORT FOR OPERATING HANDLE (75x40)	75x40
13	ANGLE SUPPORT A FOR OPERATING HANDLE	50x50x6
14	CHANNEL SUPPORT B FOR OPERATING HANDLE	75x40
15	CHANNEL SUPPORT C FOR OPERATING HANDLE	75x40
16	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5
17	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5
18	DOWNY CLAMP FOR A.B. SWITCH	3.8MT
19	TOP CLAMP FOR A.B. SWITCH OPERATING ROD	30x8
20	CLAMP FOR A.B. SWITCH MOUNTING CHANNEL	50x50x6
21	TOP BELLING ANGLE	1 NOS.
22	BOTTOM BELLING ANGLE	50x50x6
23	BELLING ANGLE	50x50x6
24	PIN INSULATOR SUPPORTING CHANNEL	75x40
25	DOWNY CLAMP FOR STAY WIRE	30x8
26	CLAMP FOR TOP BELLING ANGLE	30x8
27	CLAMP FOR BOTTOM BELLING ANGLE	30x8
28	CLAMP FOR CHANNEL SUPPORT FOR OPERATING HANDLE	30x8
29	CLAMP FOR PIN INSULATOR SUPPORTING CHANNEL	30x8

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 - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS: SPS PART-1
- ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY



आर ई सी
Rural Electrification Corporation Ltd.

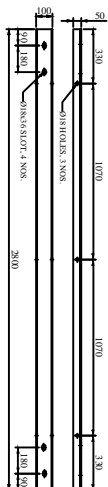
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SCALE		DRG. NO.	REV. NO.
R0	NTS		
DATE	02.06.09	REC/RDSS/11KV/05A	R0
REV. NO.	A3		1 OF 2

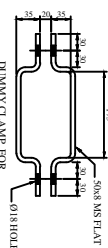
ELEVATION

SIDE VIEW



TOP CHANNEL. (100x50)

(10)

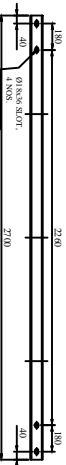


AB SWITCH (50x8)

18



A.B. SWITCH MOUNTING CHANNEL. (11)



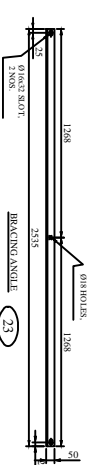
PIN INSULATOR SUPPORTING CHANNEL. (23)



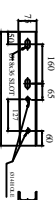
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22



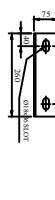
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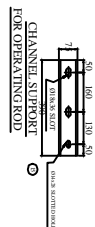
FOR OPERATING HANDLE



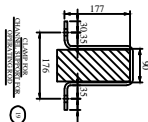
**ANGLE SUPPORT A
FOR OPERATING HANDLE**



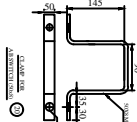
CHANNEL SUPPORT 'B'
FOR OPERATING HANDLE



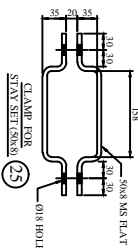
FOR OPERATING ROD



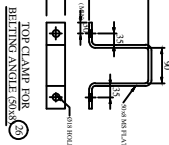
CLASS FOR
CHANCELORSHIP FOR
CORPORATING BOARD



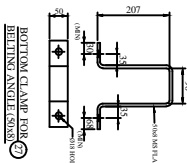
CLAMP FOR
ALL SWITCH (90050)



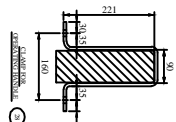
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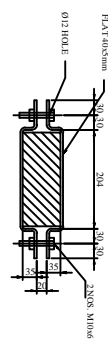
TOP CLAMP FOR
BELTING ANGLE (50x8)



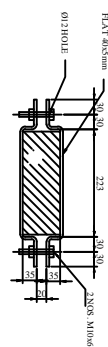
BOTTOM CLAMP FOR
BELTING ANGLE (50x8) **27**



CLAMP FOR
OPERATING HANDILL



PLAN
TOP CLAMP
ANTI CLIMBING DEVICE



BOTTOM CLAMP
ANTI CLIMBING DEVICE

FOR TENDER PURPOSE ONLY

BILL OF MATERIALS							
SER NO	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG/MT.	QTY.	TOTAL WGT KG.
1	86020MS RECT POLE					2 NOS	
2	LIVE PN INSULATOR WITH GL PINS					3 SBT	
3	HANGER WIRE					1500.2	
4						1 SBT	
5	LIVE STRAIN INSULATOR					6 SBT	
6	5KV SET BAR ARRESTER					4 SBT	
7	LIVE 200A AIR BREAK SWITCH					1 SBT	
8	LIVE DANGER BOARD					1 NO.	
9	FISH PLATE					6 NOS	
10	TOP CHANNEL (100X50)					2 NOS	
11	A.B. SWITCH MOUNTING CHANNEL (75X40)					3 NOS	
12	CHANNEL SUPPORT FOR OPERATING HANDLE (75X40)					262	
13	ANGLE SUPPORT FOR OPERATING HANDLE					1 NO.	
14	CHANNEL SUPPORT FOR OPERATING HANDLE					2 NOS	
15	CHANNEL SUPPORT FOR OPERATING DRIVE (75X40)					3.117	
16	TOP CHANNEL SUPPORT FOR OPERATING DRIVE					2 SBT	
17	BOTTOM CHANNEL SUPPORT FOR OPERATING DRIVE					3.104	
18	DIMMS CLAMP FOR A.B. SWITCH					5 NOS	
19	TOP CLAMP FOR A.B. SWITCH (OPERATING DRIVE)					1 NO.	
20	CLAMP FOR A.B. SWITCH (OPERATING DRIVE)					1 NOS	
21	TOP HING ANGLE					1 NOS	
22	BOTTOM HING ANGLE					1 NOS	
23	BREKING ANGLE					2 NOS	
24	PN INSUL. ATTOR. SUPPORTING CHANNEL					1 NOS	
25	DIMMS CLAMP FOR 5KV SET					2 SBT	
26	CLAMP FOR TOP HING ANGLE					3.317	
27	CLAMP FOR BOTTOM HING ANGLE					2 SBT	
28	CLAMP FOR CHANNEL SUPPORT FOR OPERATING HANDLE					4.809	
29	CLAMP FOR INSULATOR SUPPORTING CHANNEL					3.340	



Rural Electrification Corporation Ltd.

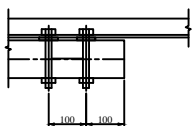
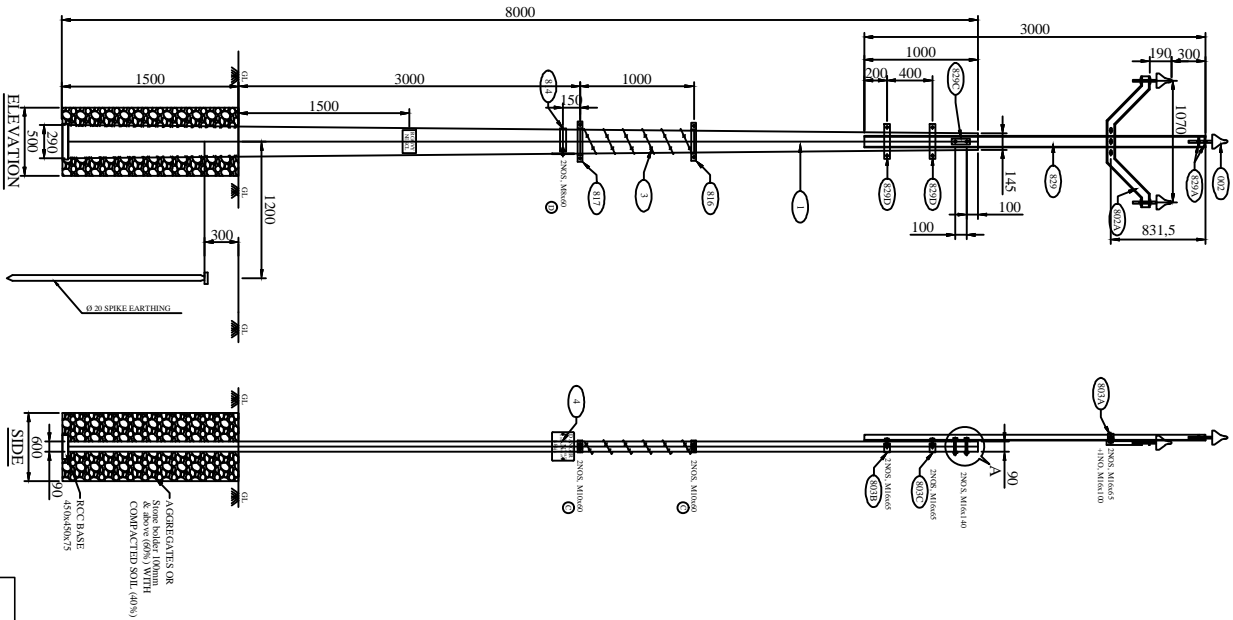
Revamped Distribution Sector Scheme (RDSS)

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

DATE	SCALE	DRG. NO.	REC/RDSS/11KV/05B
14 01 09	NTS		

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

DATE	SCALE	DRG. NO.	REV. NO.
14.01.09	NTS	REC/RDSS/11KV/05B	R0
	SIZE		SHT. NO.
	A3		2 OF 2



2NOS. M16x140

DETAIL 'A'

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
829D	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

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FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

GA OF 11kV POLE EXTENSION FOR SINGLE PCC/ PSC POLE

SIZE SCALE

DRG. NO.

REC/RDSS/11KV/6A

SHT. NO. REV. NO.

REV. NO.

PREPARED BY

CHECKED BY

APPROVED BY

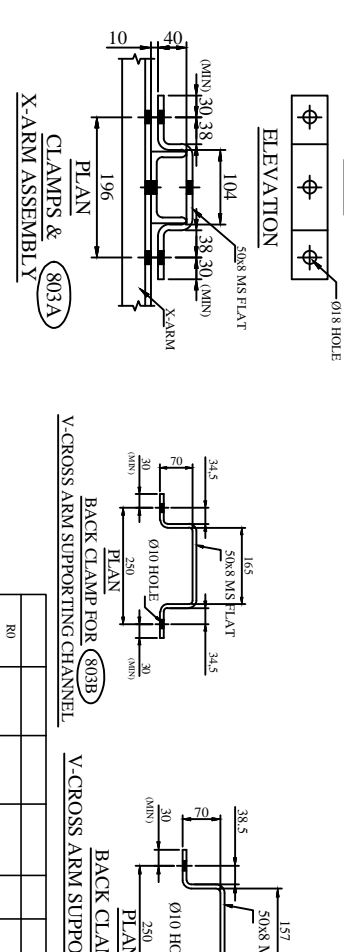
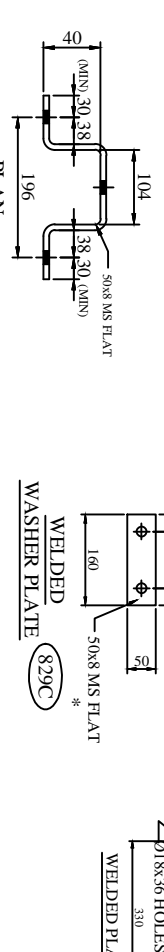
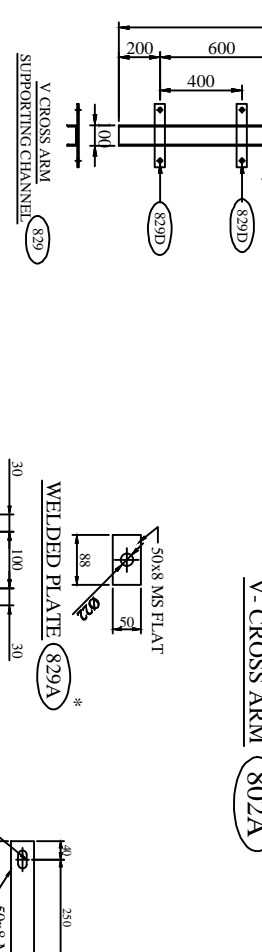
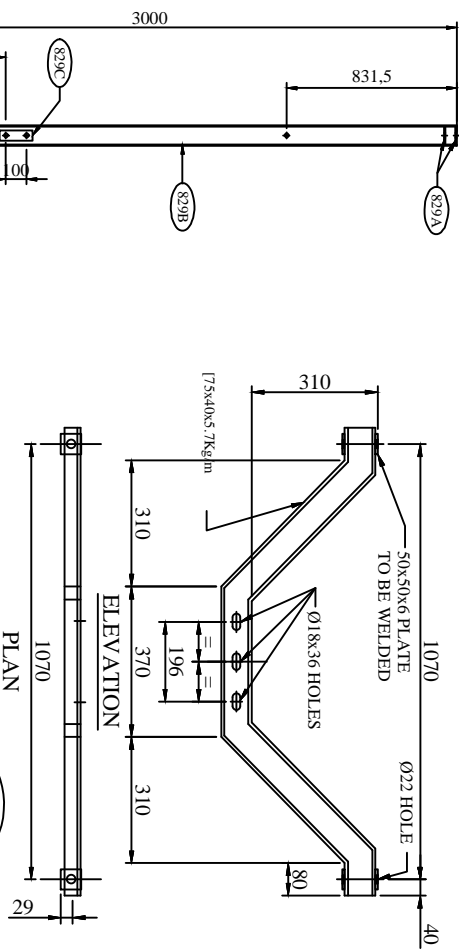
DATE

PROJECT

AS MTS

1 OF 2

0



BILL OF MATERIAL					
REF. CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
802A	V-CROSS ARM	75x40	M.S.	1998.56	1 NO.
829	V-CROSS ARM SUPPORTING CHANNEL (EMEDTN)	100x50	M.S.	3000	1 NO.
829A	WELDED PLATE	50x8	M.S.	88	1 NO.
829B	WELDED PLATE	50x8	M.S.	310	2 NO.
829C	WELDED PLATE	50x8	M.S.	310	2 NO.
803A	BACK CLAMP FOR V-CROSS ARM	50x8	M.S.	310	1 NO.
814	CLAMP FOR DANGER BOARD	30x3	M.S.	660	1 NO.
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395	1 NO.
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413	1 NO.
803B	B.C. FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	480	1 NO.
803C	B.C. FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	451	1 NO.
SPKE	SPKE FOR V-CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	125	0.22
TOTAL					47972

DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL WT. KG.
NUTS & BOLTS	M16		140	0.283	2 NO.	0.566
NUTS & BOLTS	M16		100	0.230	1 NO.	0.230
NUTS & BOLTS	M16		65	0.164	6 NO.	0.984
NUTS & BOLTS	M10		60	0.055	4 NO.	0.220
NUTS & BOLTS	M8		60	0.05	2 NO.	0.100
SPRING WASHERS	M16		13.7THK.	0.099	9 NO.	0.891
SPRING WASHERS	M10		13.7THK.	0.033	4 NO.	0.132
SPRING WASHERS	M8		13.7THK.	0.022	2 NO.	0.044
PLAIN WASHER	M16		3THK.	0.015	9 NO.	0.135
PLAIN WASHER	M10		3THK.	0.005	4 NO.	0.020
PLAIN WASHER	M8		3THK.	0.004	2 NO.	0.008
TOTAL					2.422	

GENERAL NOTES:

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED

2) MANUFACTURING TOLERANCE

UP TO 50mm - ± 5%

51 TO 100mm - ± 4%

101 TO 300mm - ± 3%

ABOVE 300mm - ± 2%

3) ALL M.S. PARTS SHALL CONFORM TO IS:2062

4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759


5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.

6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.

7) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS 596 PART-I.

ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY



REC

Rural Electrification Corporation Ltd.

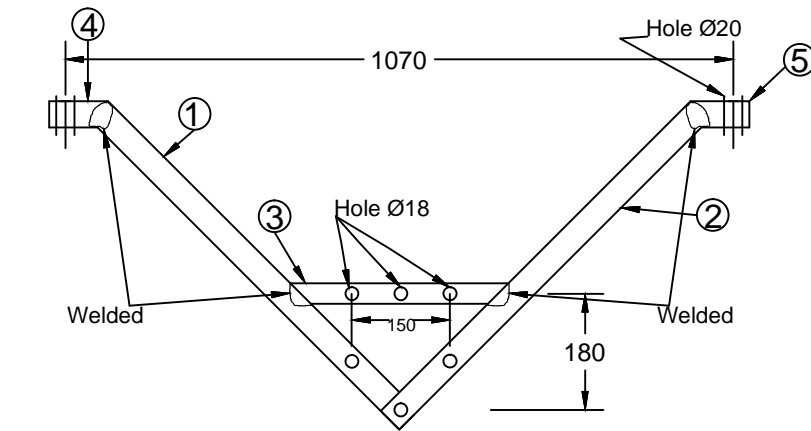
Revamped Distribution Sector Scheme (RDSS)

TITLE

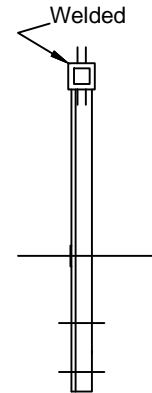
COMPONENTS FOR 11KV POLE EXTENSION FOR SINGLE PCC/PSC POLE

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

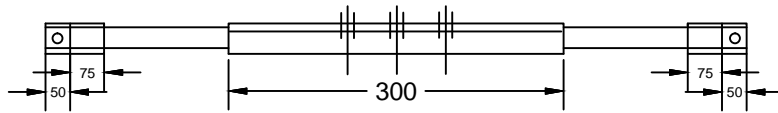
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
80					



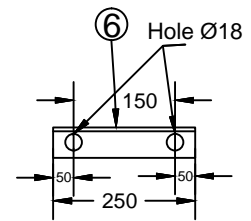
ELEVATION



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

All Dimensions are in mm.

FOR TENDER PURPOSE ONLY



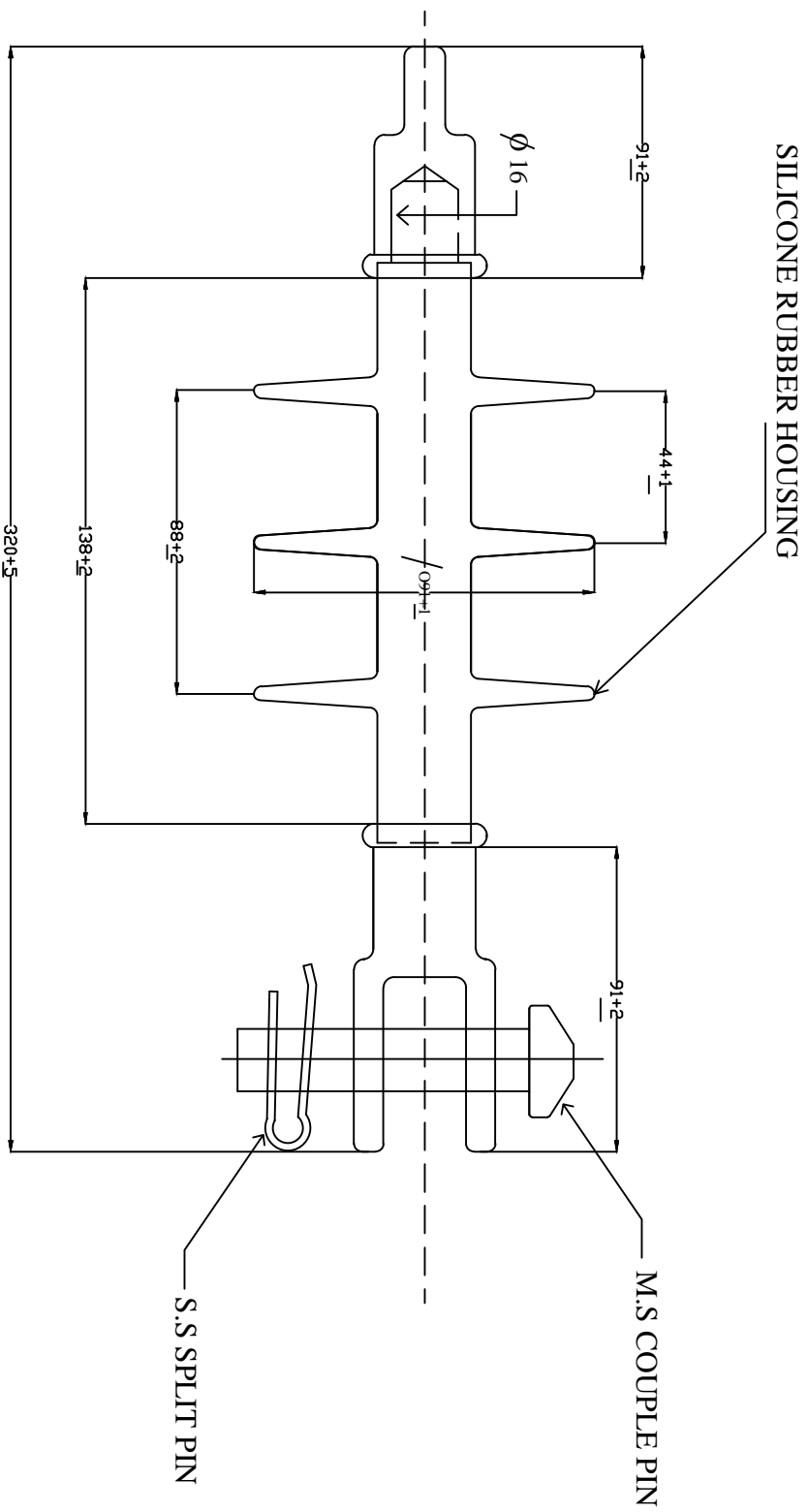
Rural Electrification Corporation Ltd.

PROJECT Revamped Distribution Sector Scheme (RDSS)

TITLE 11KV Bridling 'V' CROSS-ARM

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



FOR TENDER PURPOSE ONLY

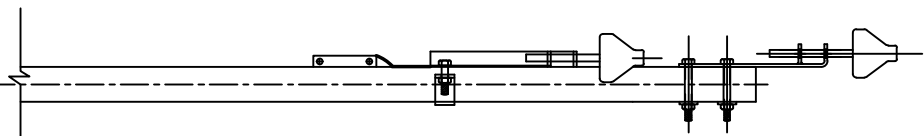
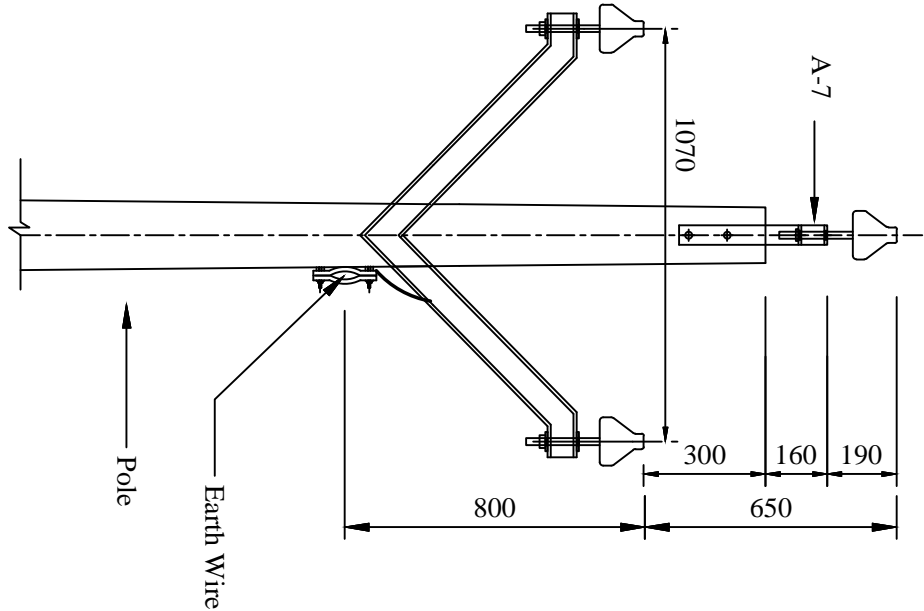


REC
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11 KV 45KN COMPOSITE INSULATOR

RO	DESIGNED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.	1	2	3	4	5
SIZE/SCALE	DRG. NO.	SFT. NO.			REV. NO.
AS NOTED	REC/RDSS/11KV/08	1 OF 1			0



All Dimensions are in mm.

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

TANGENT LOCATION

MAXIMUM SPAN-107 METERS

FOR TENDER PURPOSE ONLY

ALL DIMENSIONS ARE IN MM.



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINES CONDUCTOR FORMATION AND CLEARANCE WITH EARTH WIRE

SIZE/SCALE

DRG. NO.

SHT. NO.

REV. NO.

REV. NO.

PREPARED BY

CHECKED BY

APPROVED BY

DATE

PROJECT

SIZE/SCALE

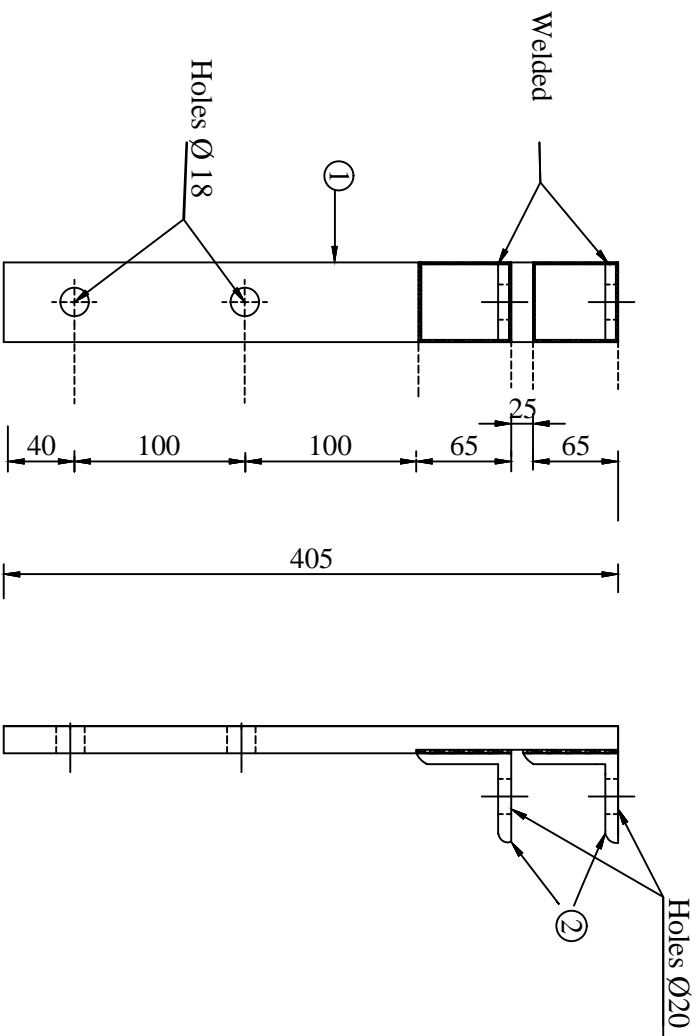
DRG. NO.

SHT. NO.

REV. NO.

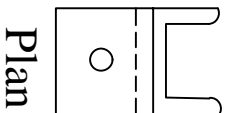
1 OF 1

0



ELEVATION

END VIEW



Plan

BILL OF MATERIAL		
Part No.	DESCRIPTION	QTY.
1	M.S Channel 75x40x6=405 Long	1 NOS.
2	M.S Angle 65x65x6= 75 Long	2 NOS.

All Dimensions in mm

FOR TENDER PURPOSE ONLY

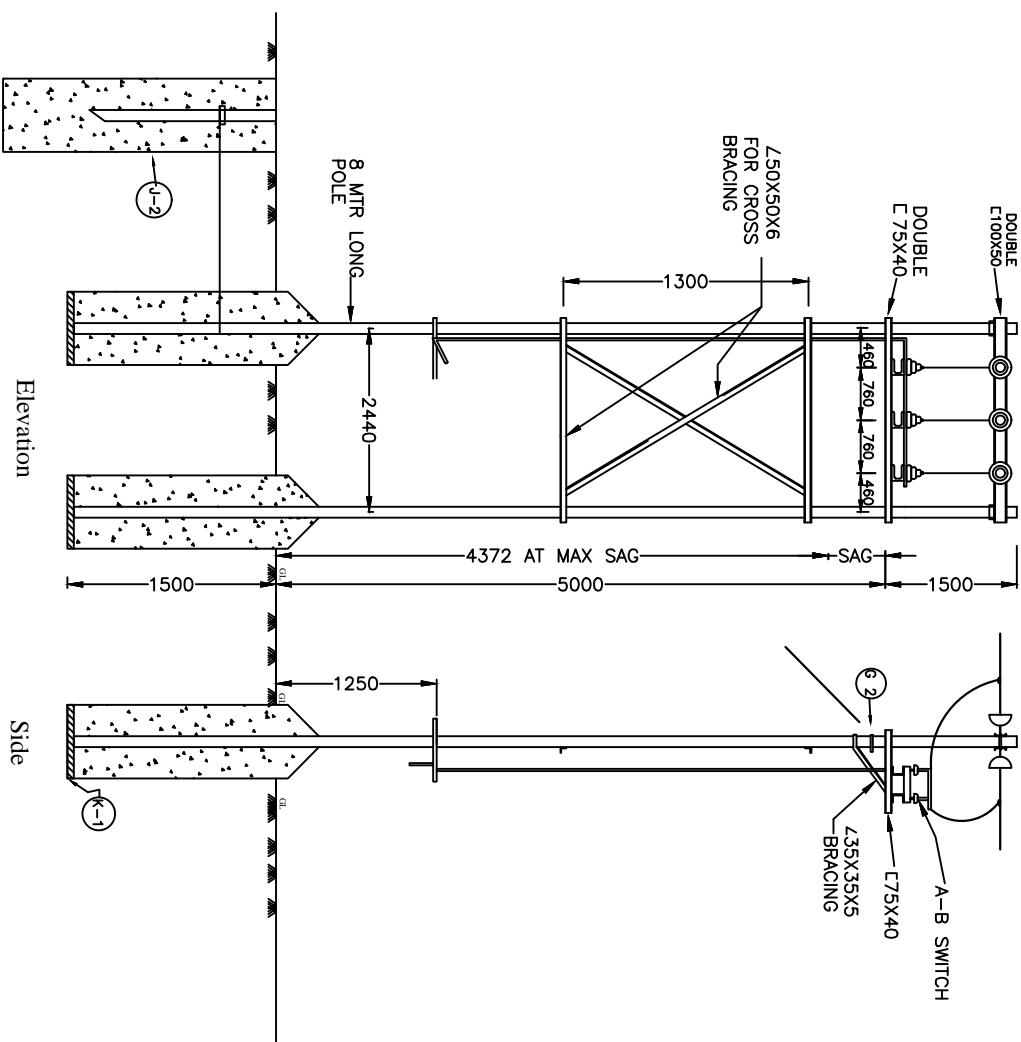
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11 KV LINE POLE TOP BRACKET

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

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



ALL DIMENSIONS ARE IN MM.

BILL OF MATERIAL			
P.C.C. SUPPORTS	8MTR LONG	1 Nos.	
CHANNELS (FOR V. CROSS ARM)	REFER REC CONST. STD A-6	1 Nos.	
CHANNELS (FOR HORIZONTAL CROSS ARM)	75X40 (150A APPROX.)	1 Nos.	
11 KV STRAIN INSULATORS WITH HARDWARE	—	3 Nos.	
11 KV PIN INSULATORS WITH PINS	—	4 Nos.	
POLE TOP BRACKET	REFER REC CONST. STD A-7	1 No.	
GUY SETS	REFER REC CONST. STD G-2	1 No.	
BUS PLATE	REFER REC CONST. STD K-1	1 Nos.	
PERIOD EARTHING	REFER REC CONST. STD J-2	1 Nos.	
BLACK CLAMP FOR V. CROSS ARM	REFER REC CONST. STD K-2	1 No.	
EARTHING MATERIAL, NUTS, BOLTS, CLAMPS ETC.	—	AS REQUIRED	

NOTE: MAXIMUM SPAN BETWEEN THE TAPPING POLE AND ADJACENT POLE OF THE BRANCH LINE - 50 MTR.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 KV LINES TAPPING ARRANGEMENT
for SPUR LINE

SIZE/SCALE

DRG. NO.

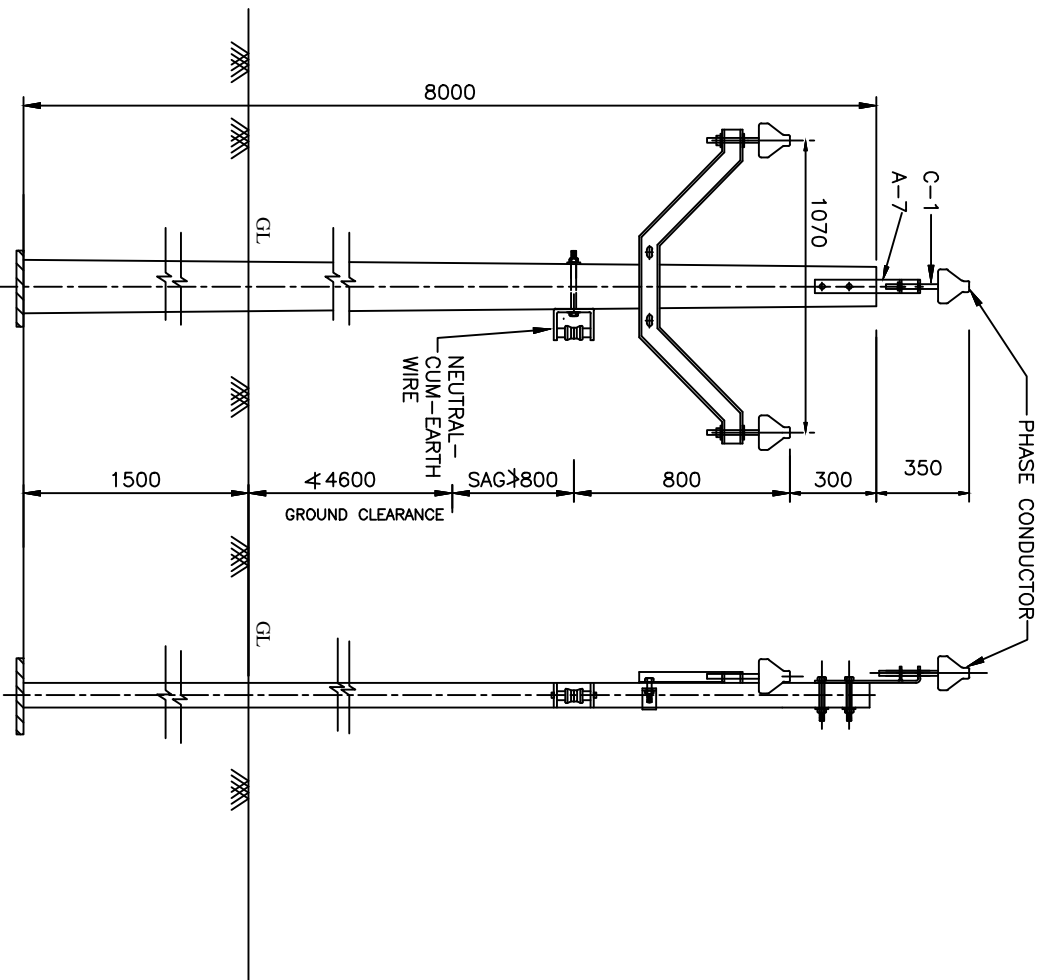
As mts

REC/RDSS/11KV/11

SHT. NO. REV. NO.

1 OF 1 0

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



ALL DIMENSIONS ARE IN MM.

ELEVATION

SIDE VIEW

BILL OF MATERIAL

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

NOTES:-

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

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

SIZE SCALE DRG. NO.

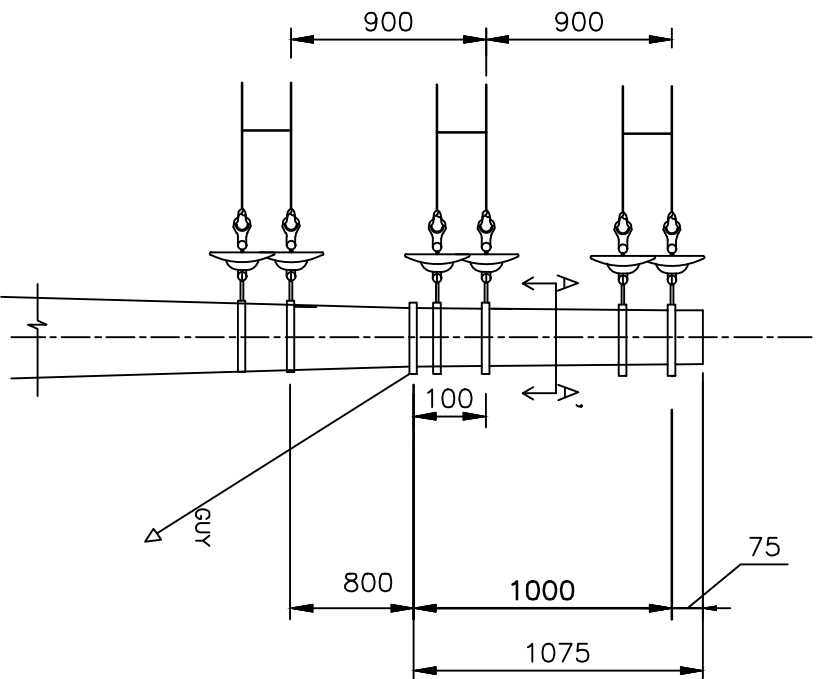
A3 MTS

REC/RDSS11KV/12

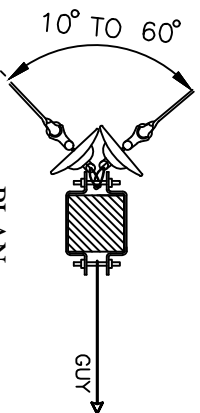
SHT. NO. REV. NO.

1 OF 1 0

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



ELEVATION




PLAN
AT A-A'

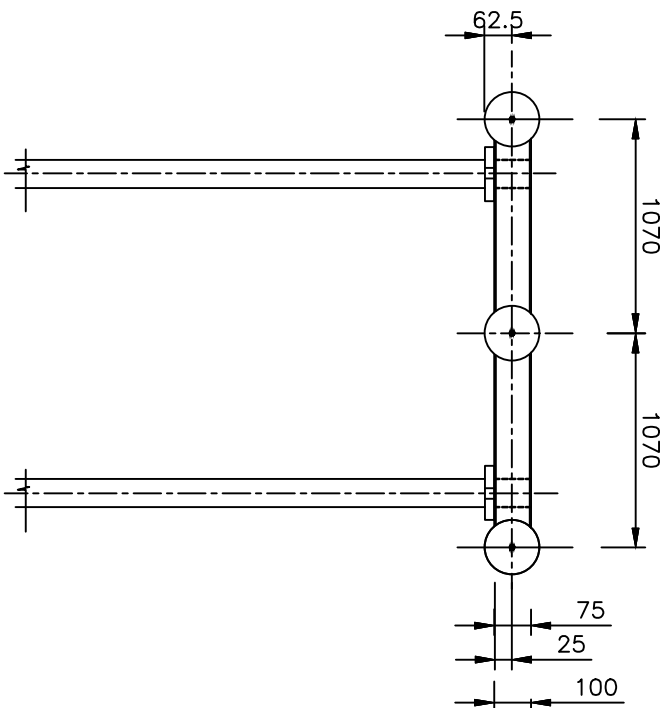
ALL DIMENSIONS ARE IN MM.

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

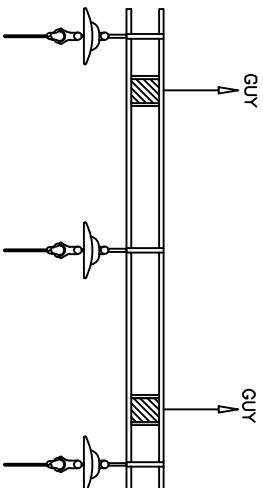
- NOTE:-
1. REFER REC CONSTRUCTION STANDARD A-22 FOR TYPE OF POLE TO BE USED.
 2. THE DRAWING INDICATES THE POSITION OF GUY CLAMP ON THE POLE. THE DIRECTION OF GUY WIRE SHALL BE SUCH AS TO COUNTERACT THE RESULTANT TENSION OF THE CONDUCTORS.
 3. GUY ANGLE SHALL BE 30 TO 45.

FOR TENDER PURPOSE ONLY

		Rural Electrification Corporation Ltd.	
PROJECT:		Revamped Distribution Sector Scheme (RDSS)	
TITLE		11 KV LINES CONDUCTOR FORMATION AND ARRANGEMENT OF GUYS FOR 10° TO 60° ANGLE LOCATIONS (SINGLE POLE SUPPORT)	
SIZE SCALE		DRG. NO.	
A3 NTS		REC/RDSS/11KV/13	
SHT. NO.		REV. NO.	
1 OF 1		0	



ELEVATION



PLAN

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

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

3. GUY ANGLE SHALL BE 30° TO 45°

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

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

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

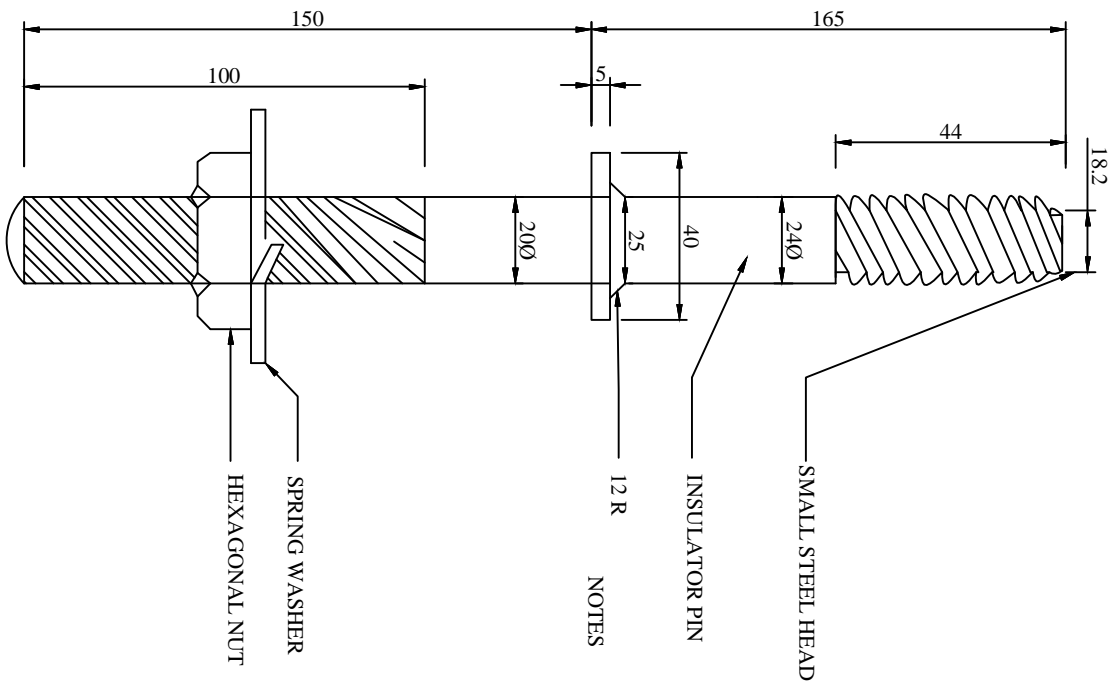
A3 MTS

REC/RDSS/11KV/14

1 OF 1

0

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



TYPE S 165
IS:2488 (PART-II)

PIN INSULATOR

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.

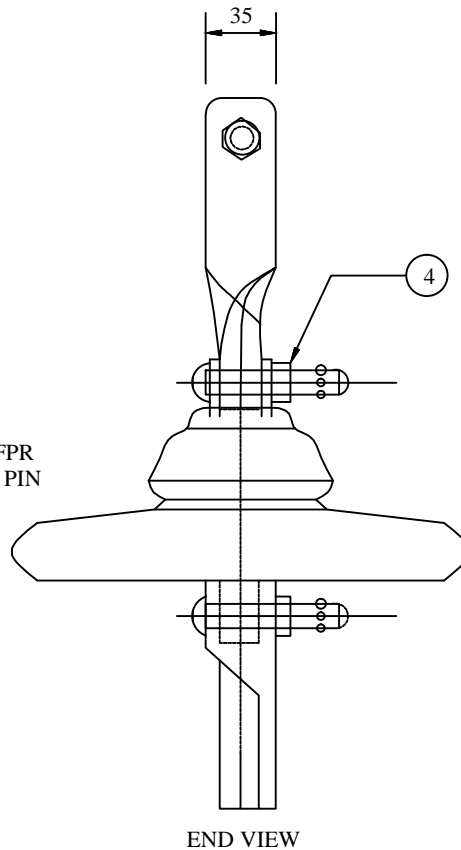
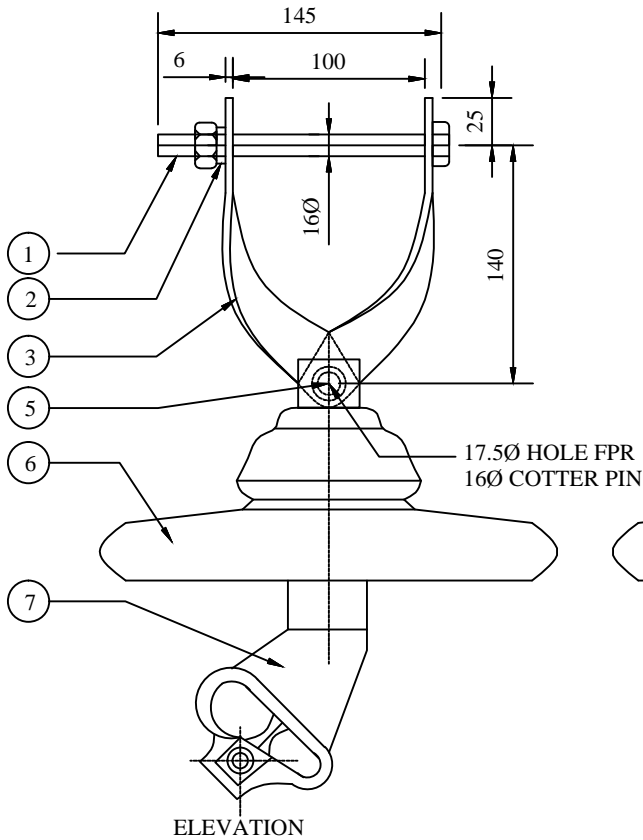
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: GI PIN

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					
AS					
NTS					
REC/RDSS					
/11KV/15					
SHT. NO.					
1 OF 1					
REV. NO.					
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:

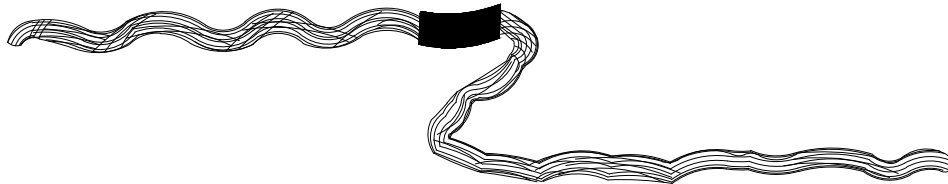
Revamped Distribution Sector Scheme (RDSS)

TITLE

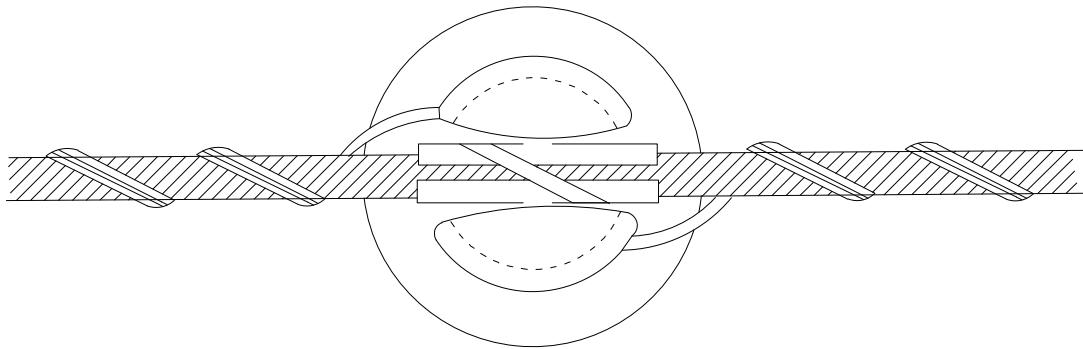
Clevis & Tongue Type Strain Insulator Set

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



DISTRIBUTION TIE



DISTRIBUTION TIE IN POSITION ON 11KV PIN INSULATOR

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

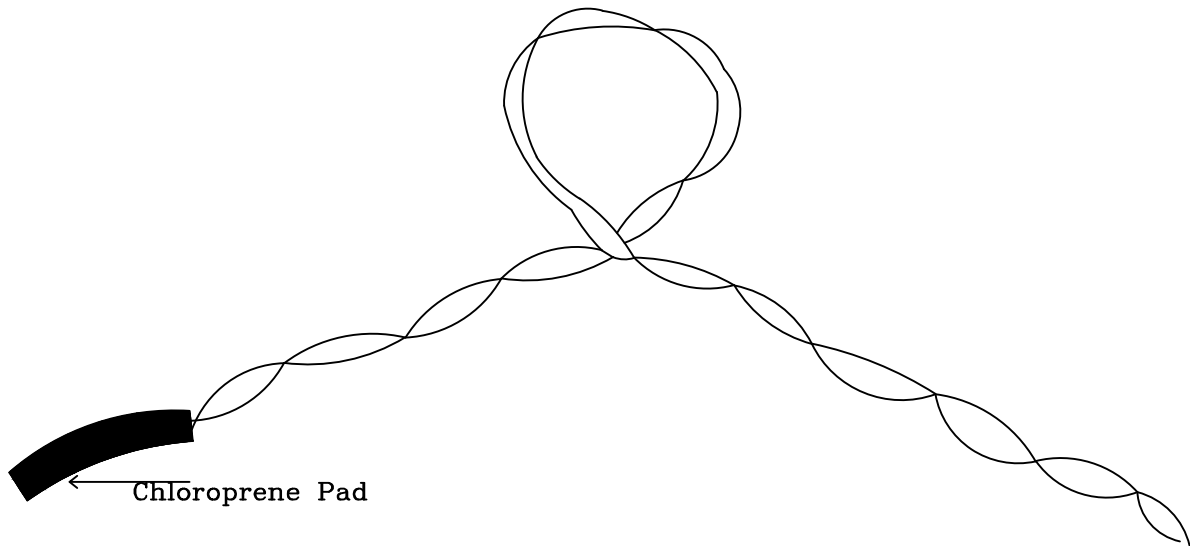
Revamped Distribution Sector Scheme (RDSS)

TITLE

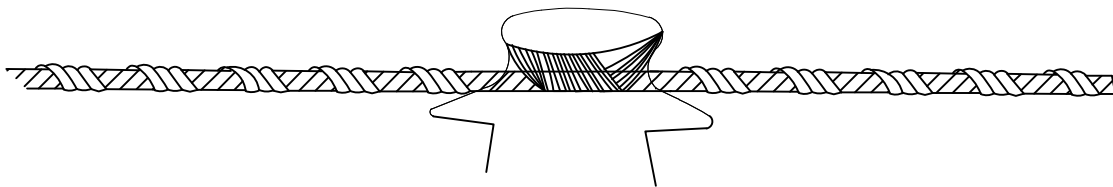
Holding of Conductor on 11 KV Pin Insulator
Straight Run (Using Helically Formed Fitting)

RO					
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



Side Tie



Side Tie In Position On 11 KV Pin Insulator

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

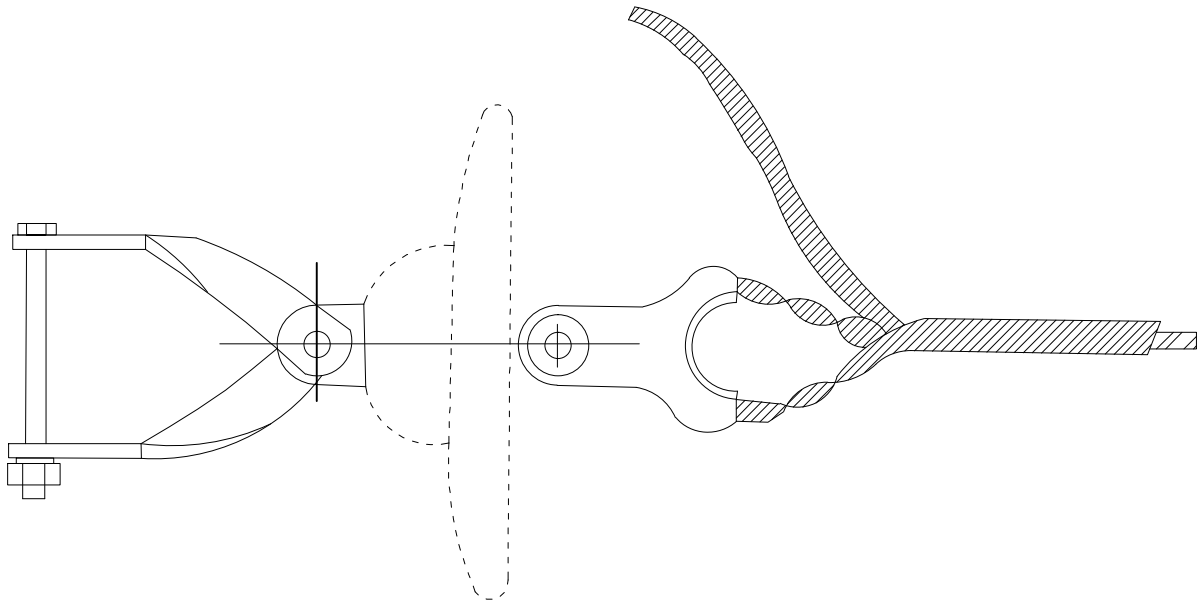
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



11kV CONDUCTOR DEAD-END FITTING IN POSITION

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

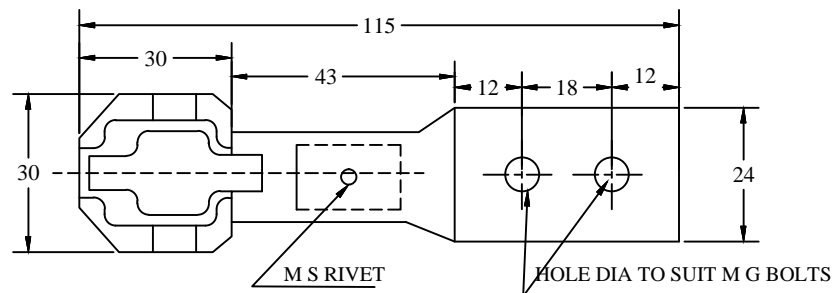
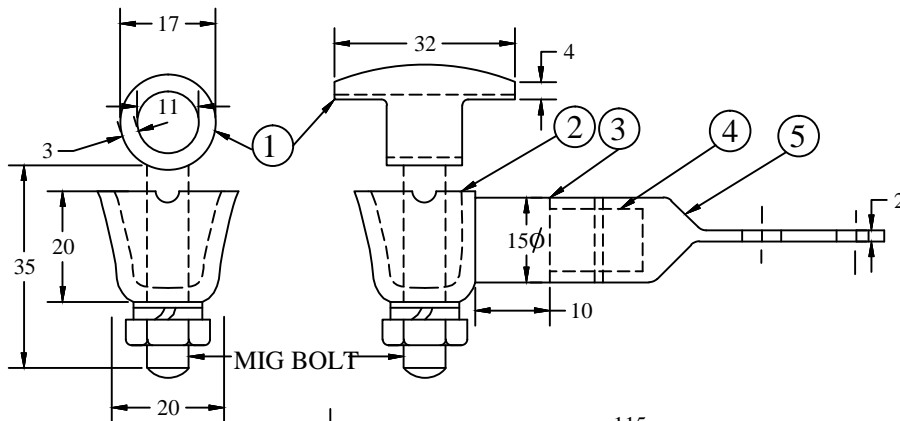
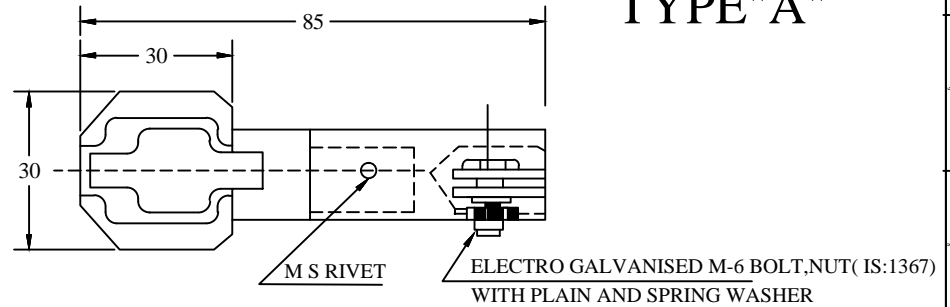
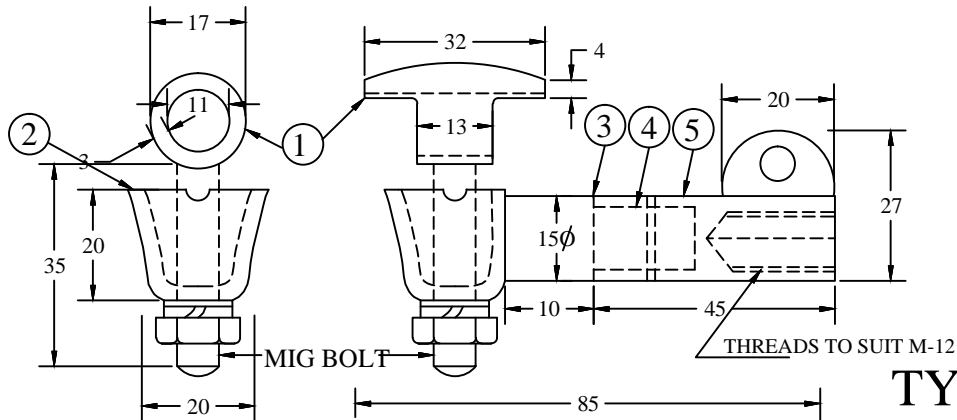
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

RO	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



NOTES:-

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

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

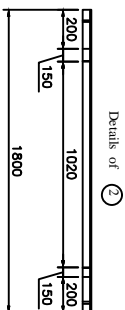
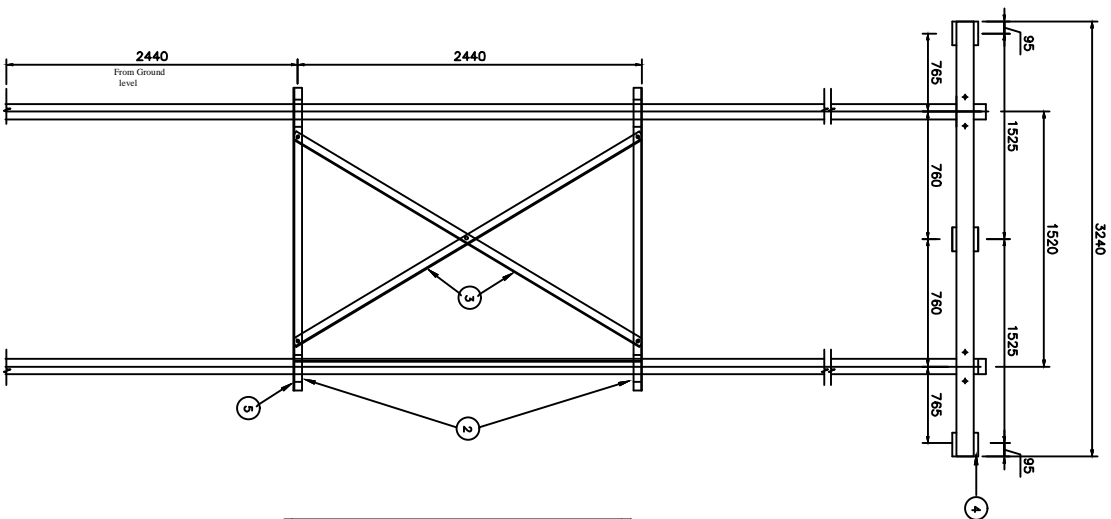
Revamped Distribution Sector Scheme (RDSS)

TITLE

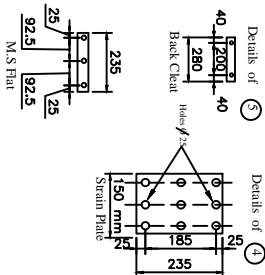
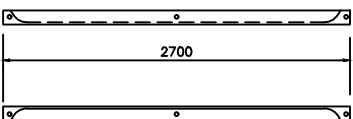
Bimetallic Connector (H. T.) for
11kV Distribution Transformer

R0	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



Details of 3



1. FLANGE OF ANGLE SHOULD BE WRAPPED ON OTHER SIDE OF FLANGED AND THEN DRILLED.
2. ONE SIDE 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 100 X50X6 = 3240 Long	2 Nos.
2.	M.S Angle 65X65X6 = 1800 Long	2 Nos.
3.	M.S Angle 80X50X6 = 2700 Long	2 Nos.
4.	Strain Plate	3 Nos.
5.	M.S Angle 65X65X6 = 280 Long	4 Nos.
6.	M.S Clamp 50x8	4 Nos.
7.	Nut Bolts	As reqd.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

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

SIZE/SCALE

DRG. NO.

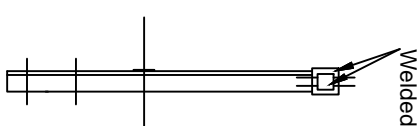
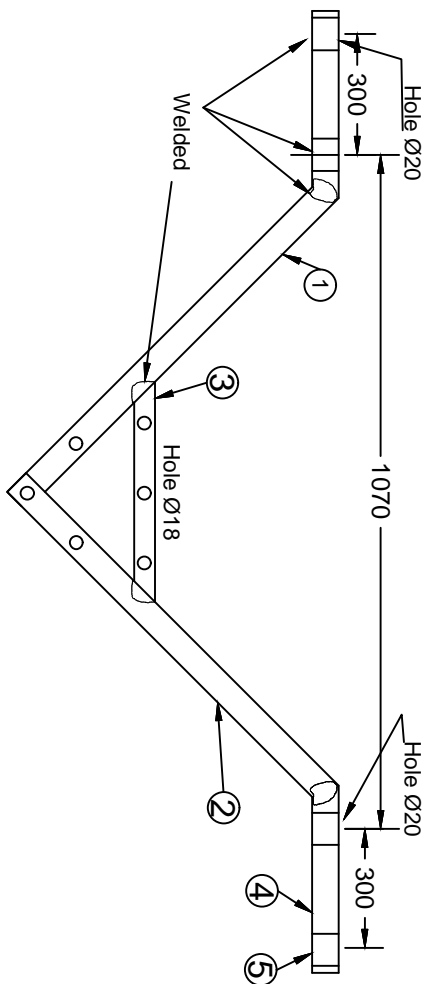
As MTS

REC/RDSS/11KV/21

SHT. NO. REV. NO.

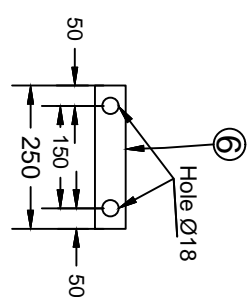
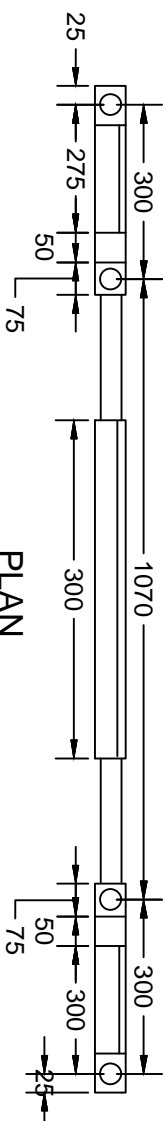
1 OF 1 0

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



ELEVATION

END VIEW



BACK CLEAT

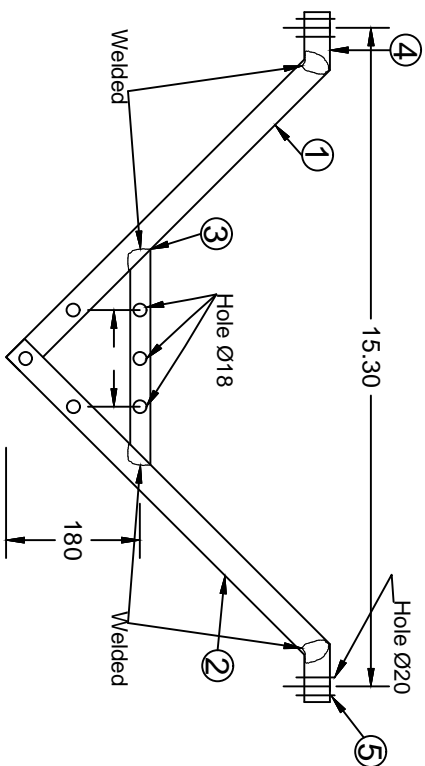
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

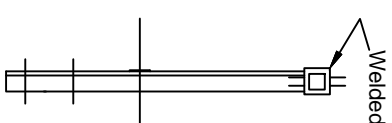
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV Bridling 'V' Cross-Arm

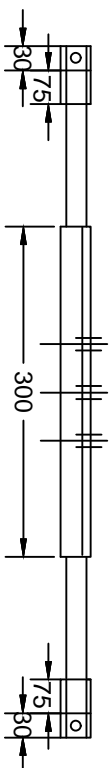
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS	/11KV/22	1 OF 1	0



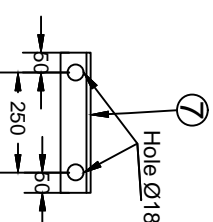
ELEVATION



END VIEW



PLAN



BACK CLEAT

FOR TENDER PURPOSE ONLY

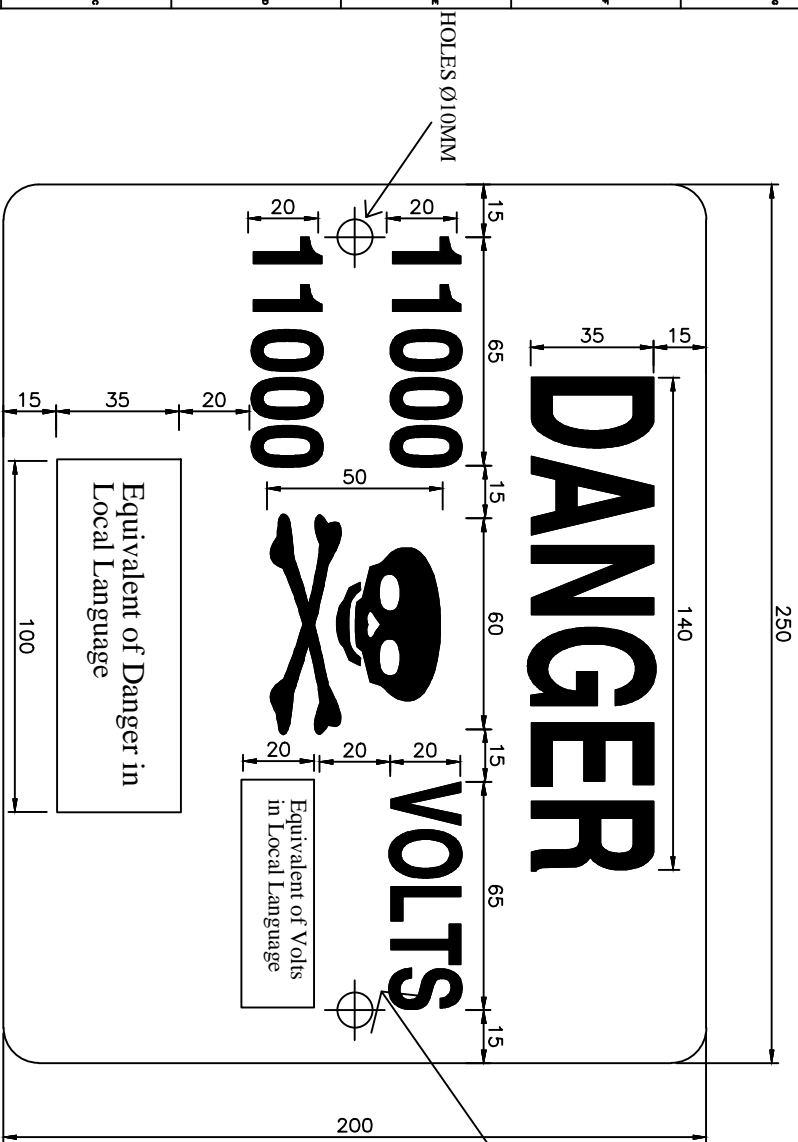
11KV 'V' Cross-Arm

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11KV 'V' Cross-Arm

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



HOLES Ø10MM

NOTES:-

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

FOR TENDER PURPOSE ONLY

**REC**
Rural Electrification Corporation Ltd.

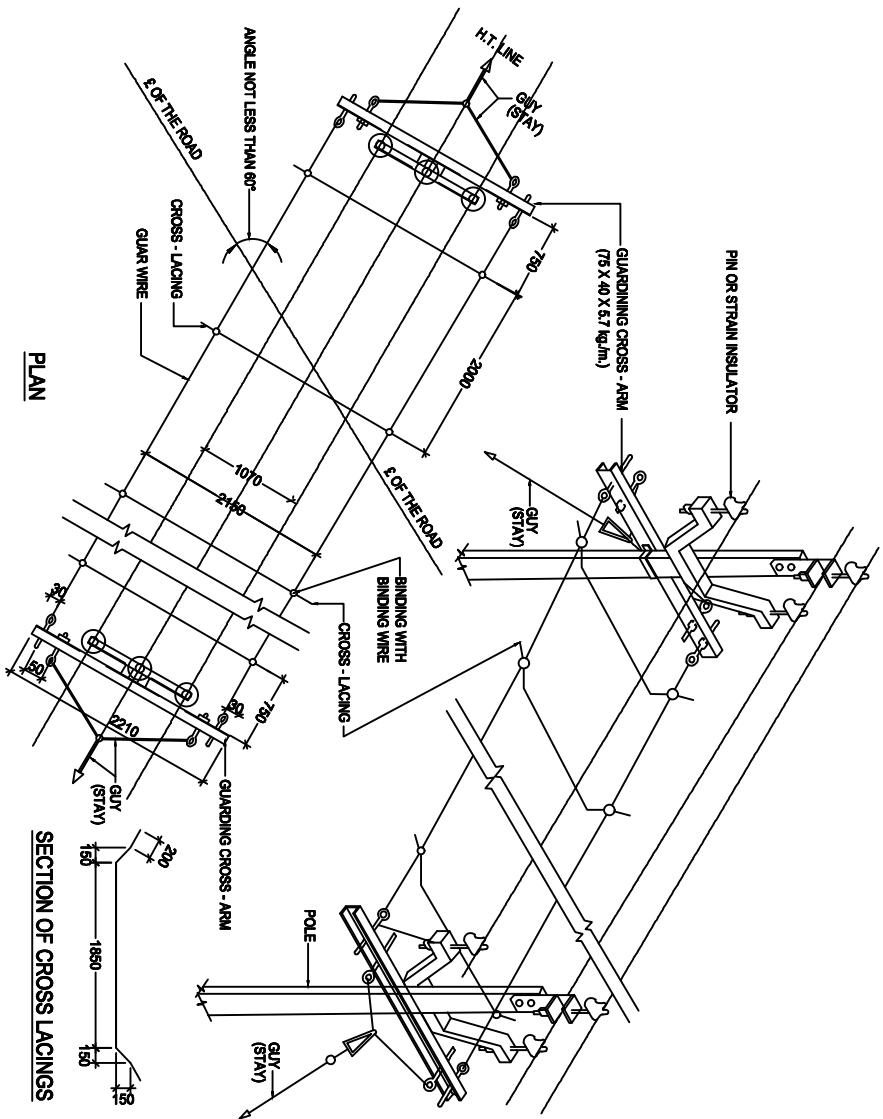
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

11 kV DANGER BOARD

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RD					
A3	NTS	REC/	RDSS	/11KV/24	SHT. NO. 1 OF 1
					REV. NO. 0



PLAN

SECTION OF CROSS LACINGS

GUARDING CROSS ARM (806)

BACK CLAMP FOR GUARDING CROSS ARM (807)

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

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: 11kV LINE PROTECTIVE GUARDING ACROSS THE MINOR CROSSING LIKE VILLAGE ROAD ETC.

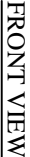
SIZE/SCALE: A3 NTS Dwg. No. REC/RDSS /11kV/25 SHT. NO. 1 OF 1 REV. NO. 0

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

ERE CODE	DESCRIPTION	SECTION MATERIAL	LENGTH MM	KG./MTR.	QTY.	TOTAL WT. KG.
806	GUARDING CROSS ARM	75x40	2210	6.7	2 NOS.	28.19
807	BACK CLAMP FOR GUARDING CROSS ARM	50x6	445	3.14	2 NOS.	2.80
807	BACK CLAMP FOR GUARDING CROSS ARM	818 MM	235	1.577	8 NOS.	2.88
					TOTAL	30.87

GENERAL NOTES:

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



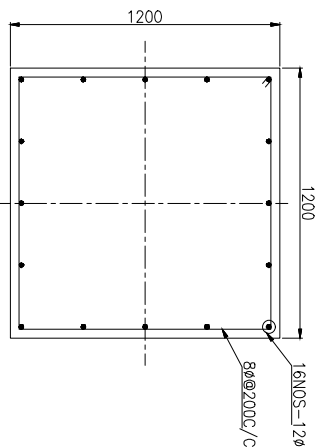
FOR TENDER PURPOSE ONLY



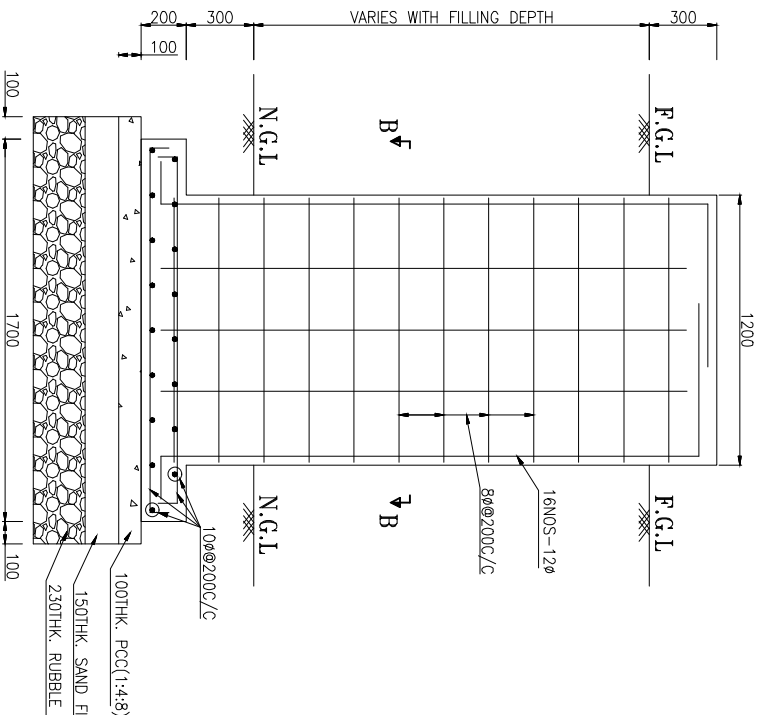
Revamped Distribution Sector Scheme (RDSS)

33 kv Line Pole Bracket

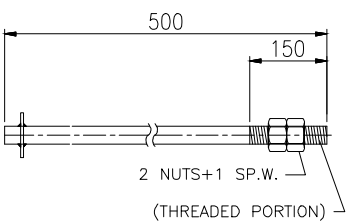
				SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0								
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT			
				A3	NTS	REC/RDSS/33kV/01	1 OF 1	0



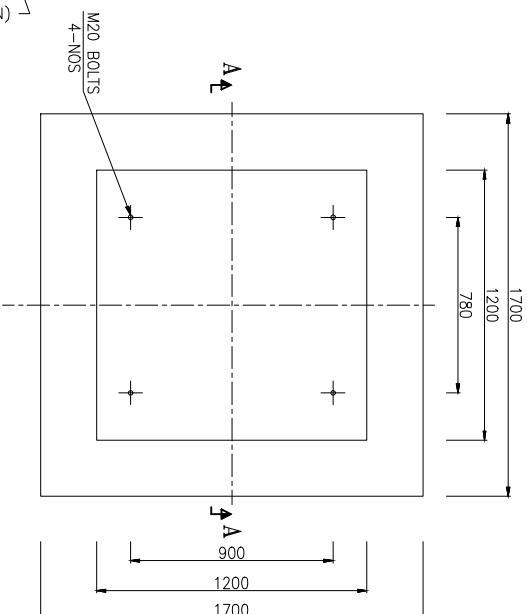
SECTION - BB



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.

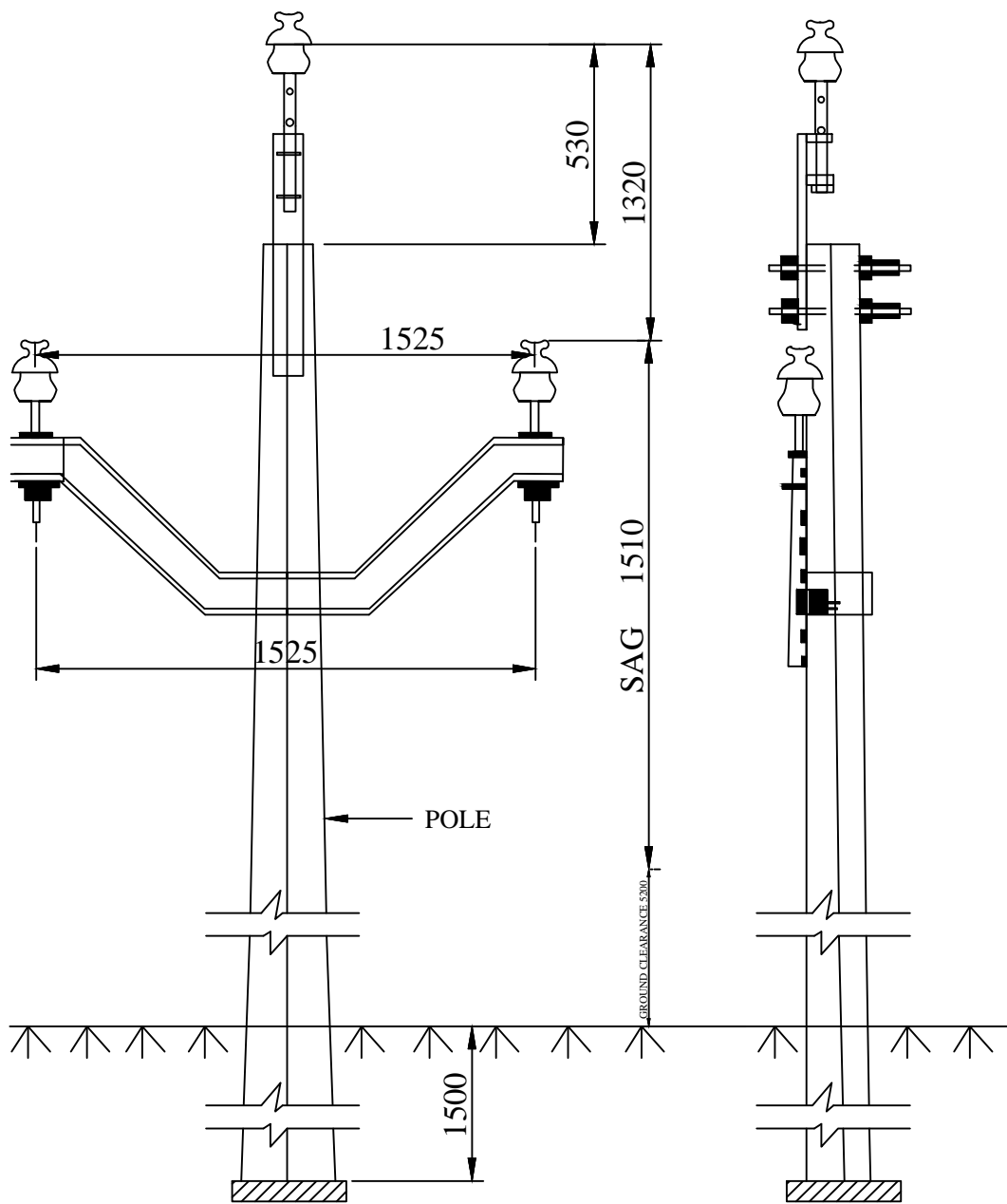
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

DETAILS OF 33kV VCB FOUNDATION

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



ALL DIMENSION ARE IN mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

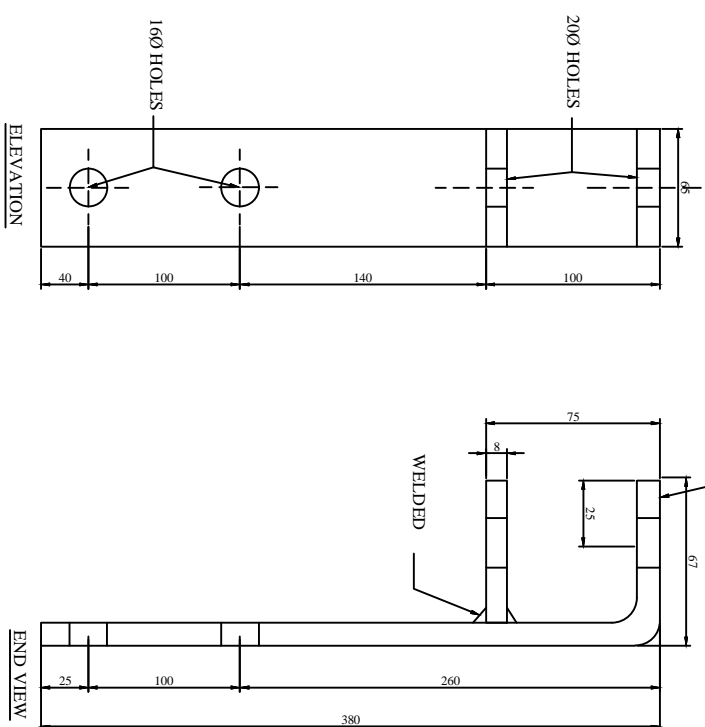
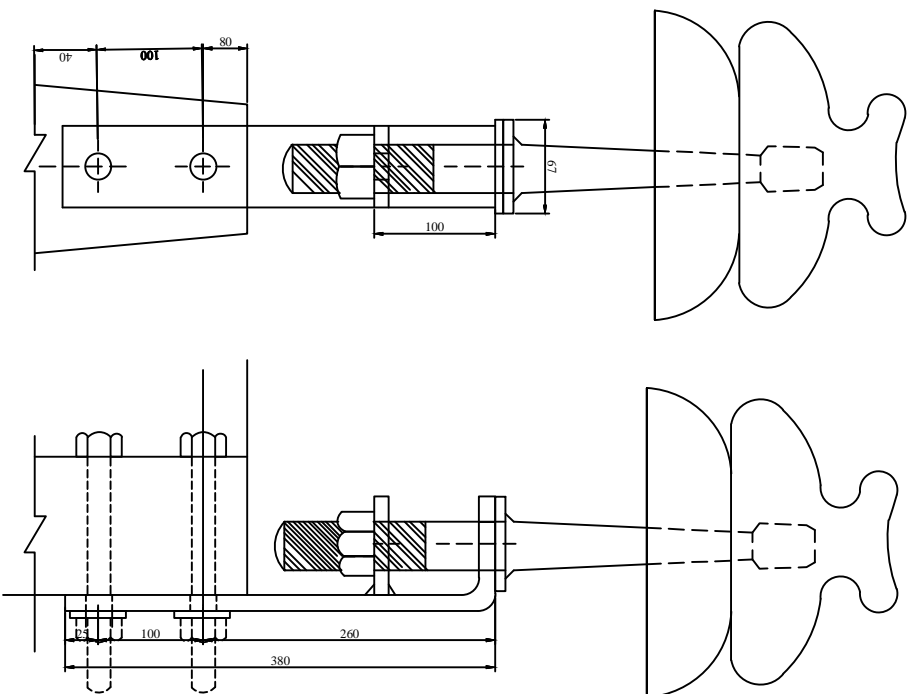
Revamped Distribution Sector Scheme (RDSS)

TITLE

33kV Line Conductor Formation & Clearances

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

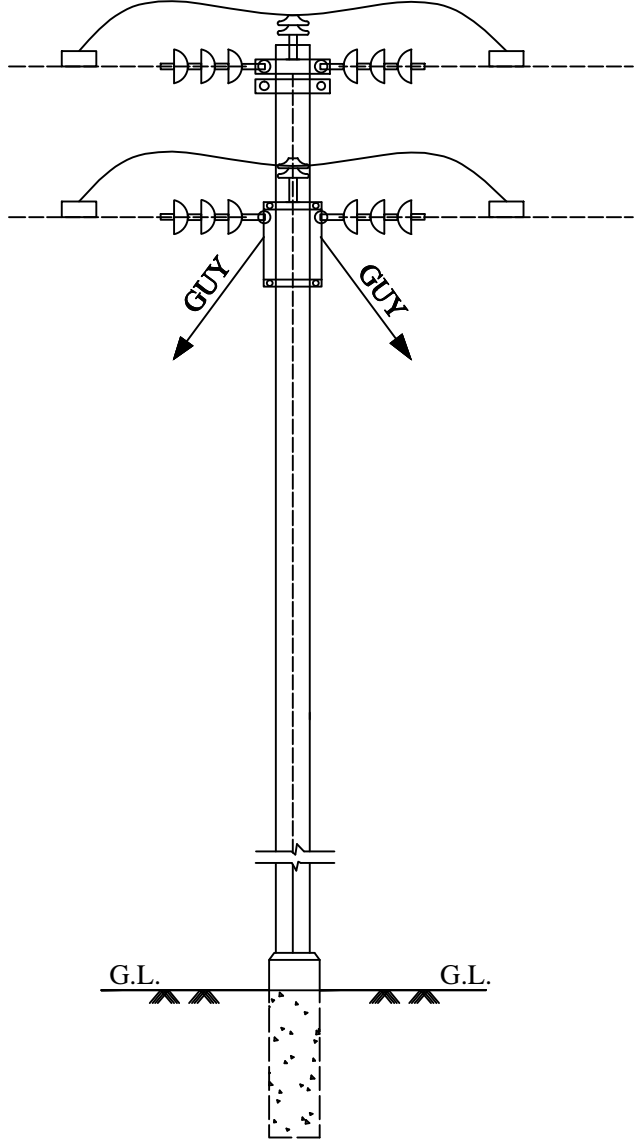
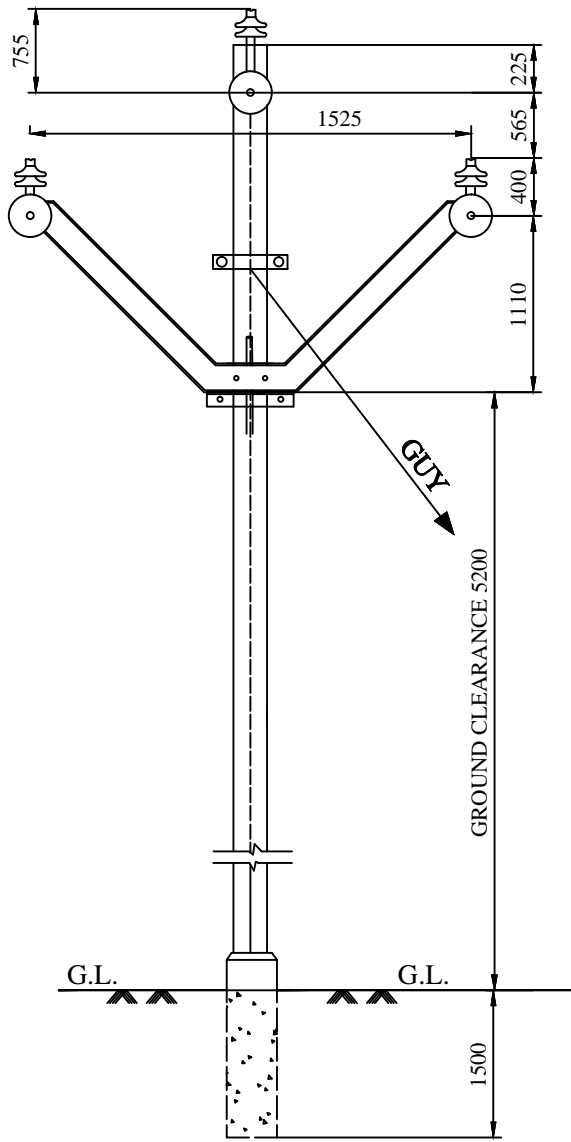
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

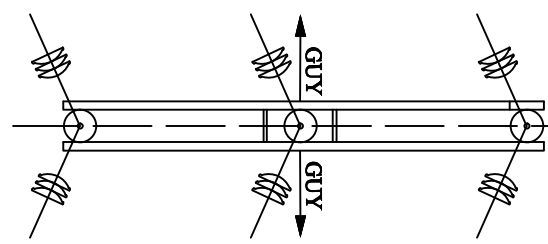
33kV Line Pole Top Bracket

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					

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



SIDE VIEW



FOR TENDER PURPOSE ONLY



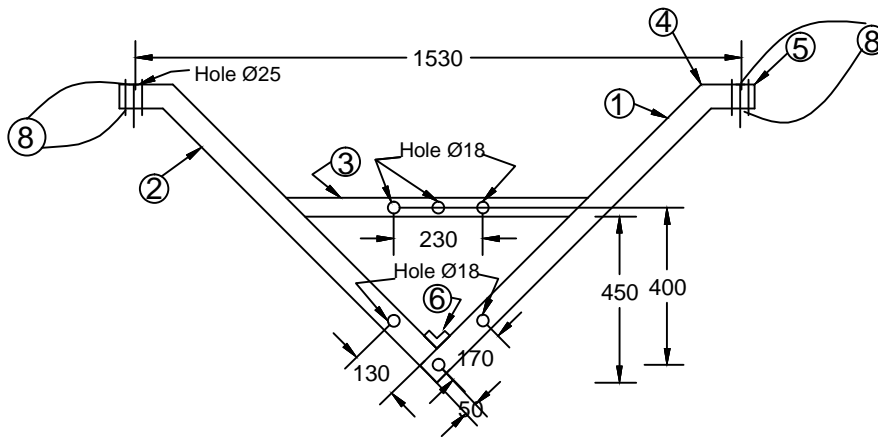
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

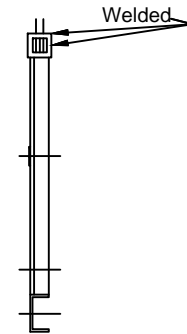
TITLE
33KV Lines Arrangement of Conductors at Single Pole Support (0° to 10° Deviation)

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

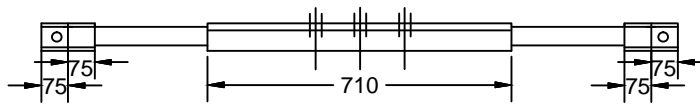
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33kv/05	1 OF 1	0



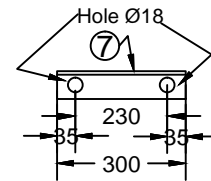
ELEVATION



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-

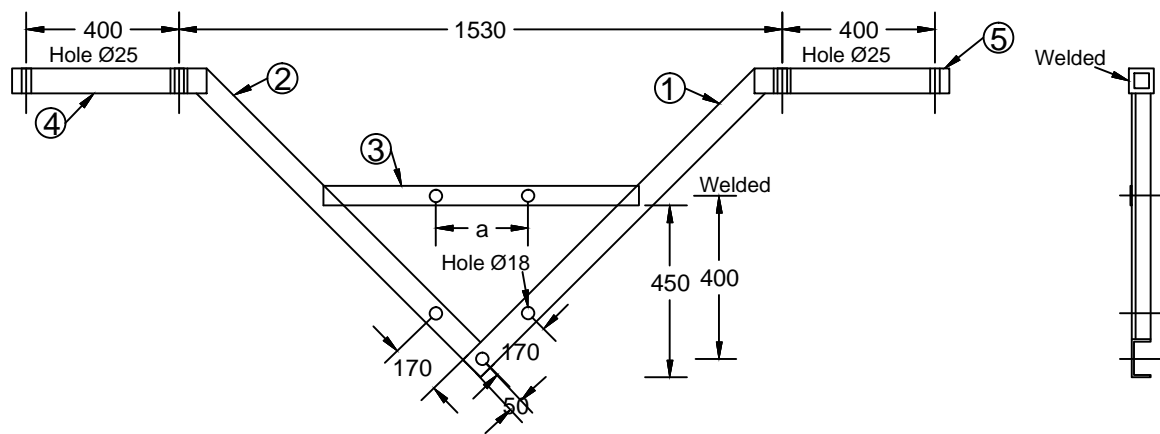
Revamped Distribution Sector Scheme (RDSS)

TITLE

33KV 'V' CROSS-ARM

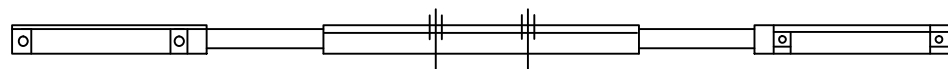
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

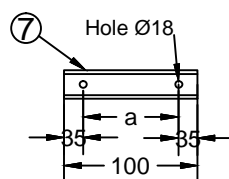


ELEVATION

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

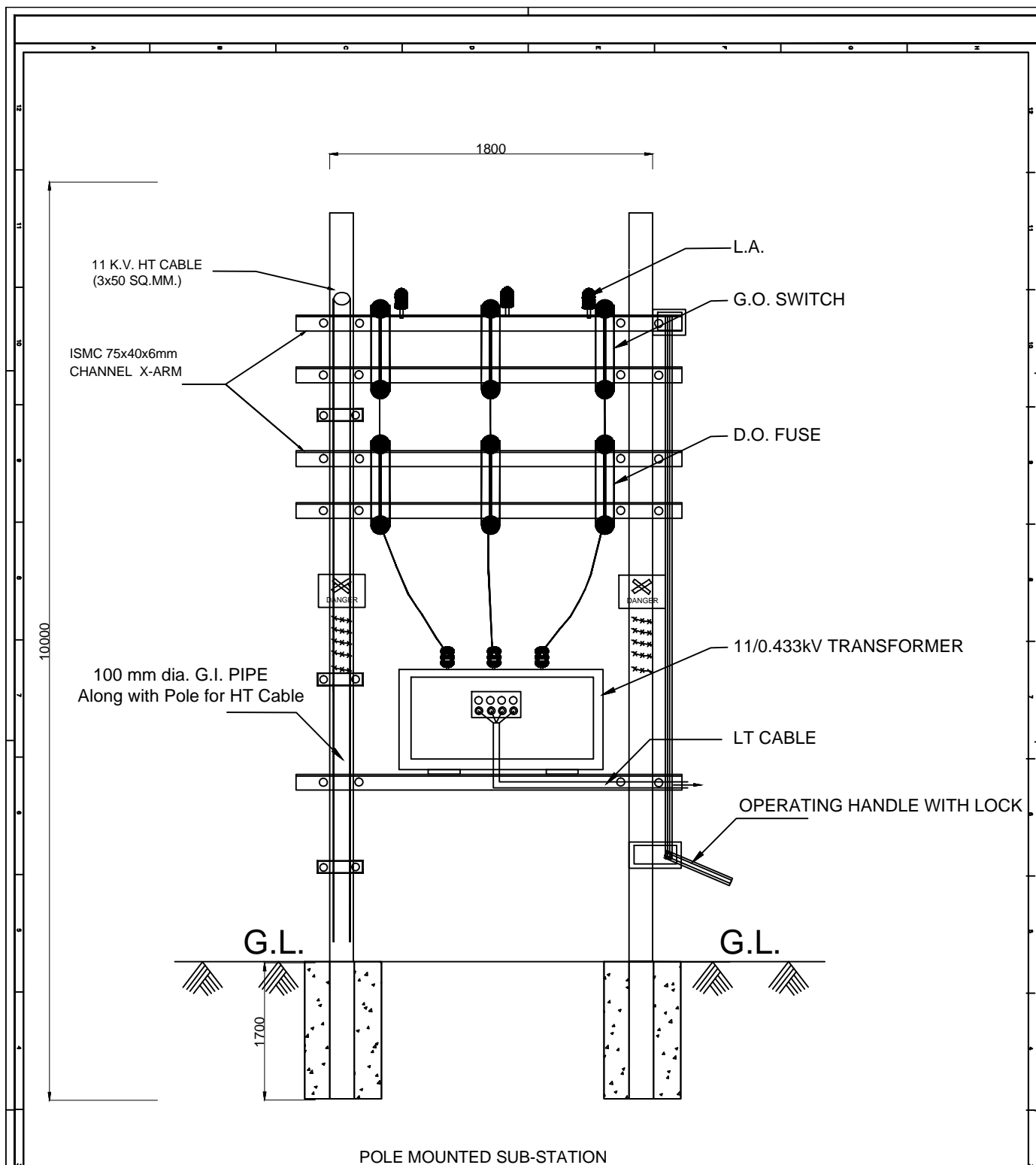
FOR TENDER PURPOSE ONLY

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

All Dimensions are in mm.

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

 आर ई सी REC <small>राज्यीय विद्युत आपूर्ति निगम, भारत सरकार</small> <small>State Electricity Corporation, Ministry of Power, Government of India</small>		Rural Electrification Corporation Ltd.	
PROJ Revamped Distribution Sector Scheme (RDSS)			
TITLE 33kV Bridling V-Cross Arm (Road Crossing)			
SIZE A3	SCALE NTS	DRG. NO. REC/ RDSS /33kV/08	SHT. NO. 1 OF 1
		REV. NO. 0	



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

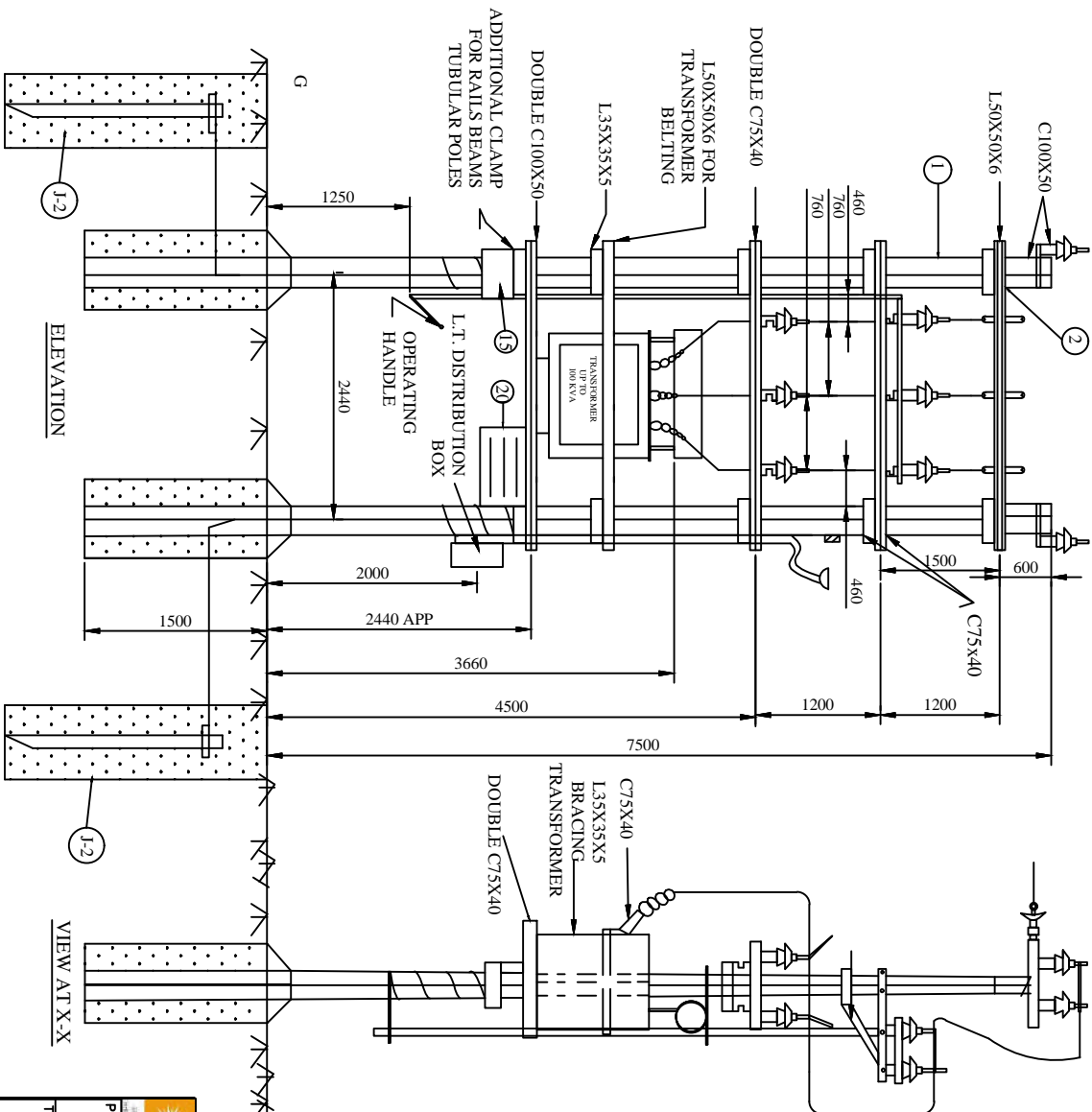
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



BILL OF MATERIAL

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

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

FOR TENDER PURPOSE ONLY

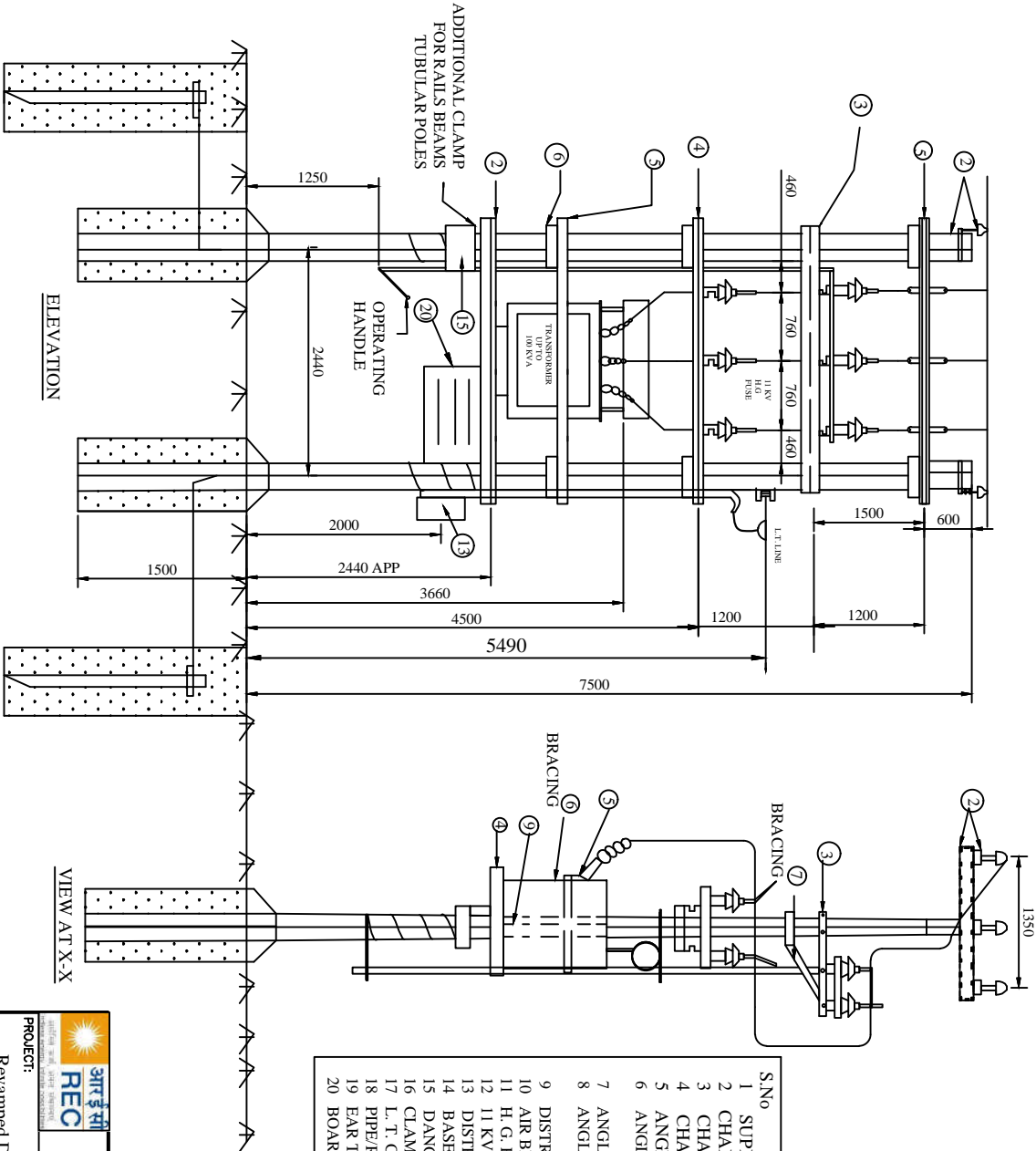


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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



BILL OF MATERIAL

S.No		
1	SUPPORT - 9m	2
2	CHANNEL 100X50 - 2800 (APP.)	2
3	CHANNEL 75X40 - 1500 (APP.)	2
4	CHANNEL 75X40 - 2800 (APP.)	4
5	ANGLE 50X50X6 - 2800 (APP.)	3
6	ANGLE 35X35X5 - BREACHING FOR SUPPORTING	2
7	ANGLE 35X35X5 - 1000 (APP.)	2
8	ANGLE 75X40 - X. ARM FOR SUPPORTING	4
9	DISTRIBUTION TRANSFORMER	1
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

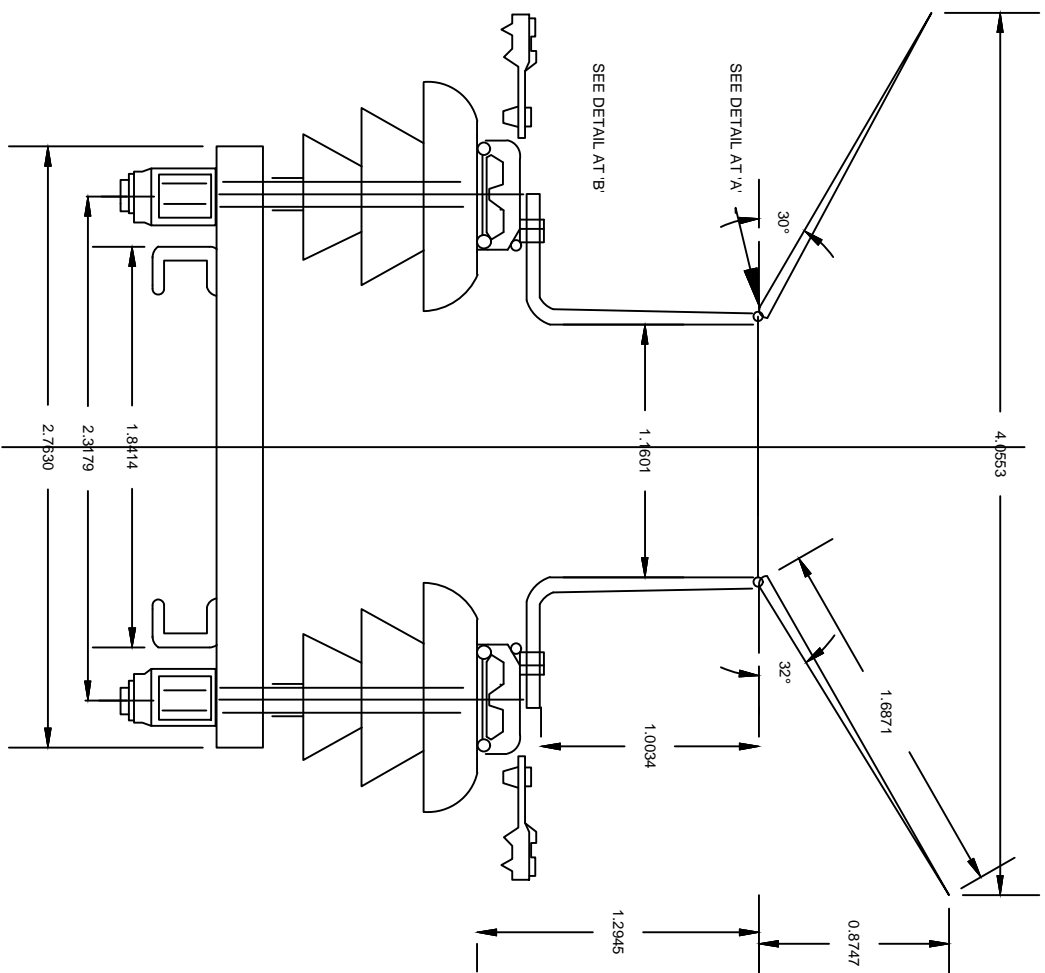
Rural Electrification Corporation Ltd.



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



FOR TENDER PURPOSE ONLY

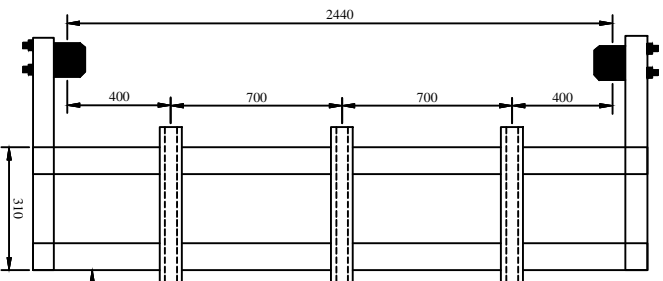


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

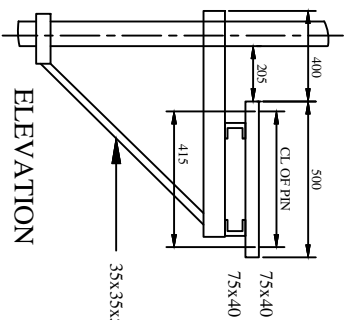
TITLE: 11KV Horn Gap Fuses

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

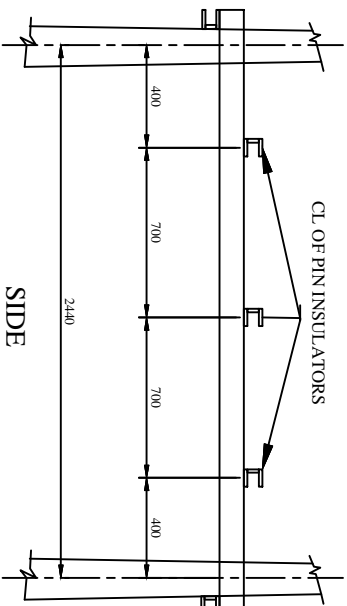


PLAN

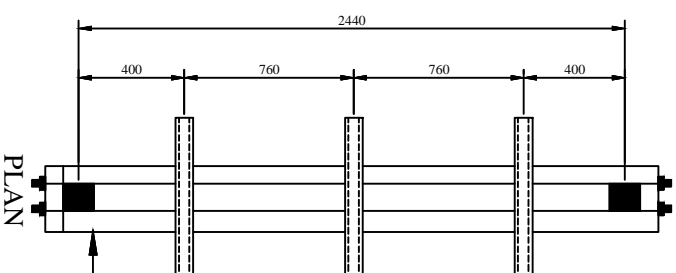
REFER REC CONSTRUCTION
STANDARD F-2



ELEVATION

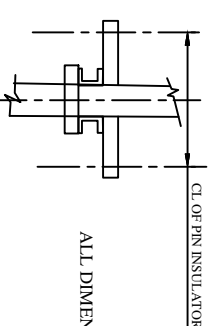


SIDE



PLAN

REFER REC CONSTRUCTION
STANDARD F-4



ELEVATION

ALL DIMENSION ARE IN MM

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

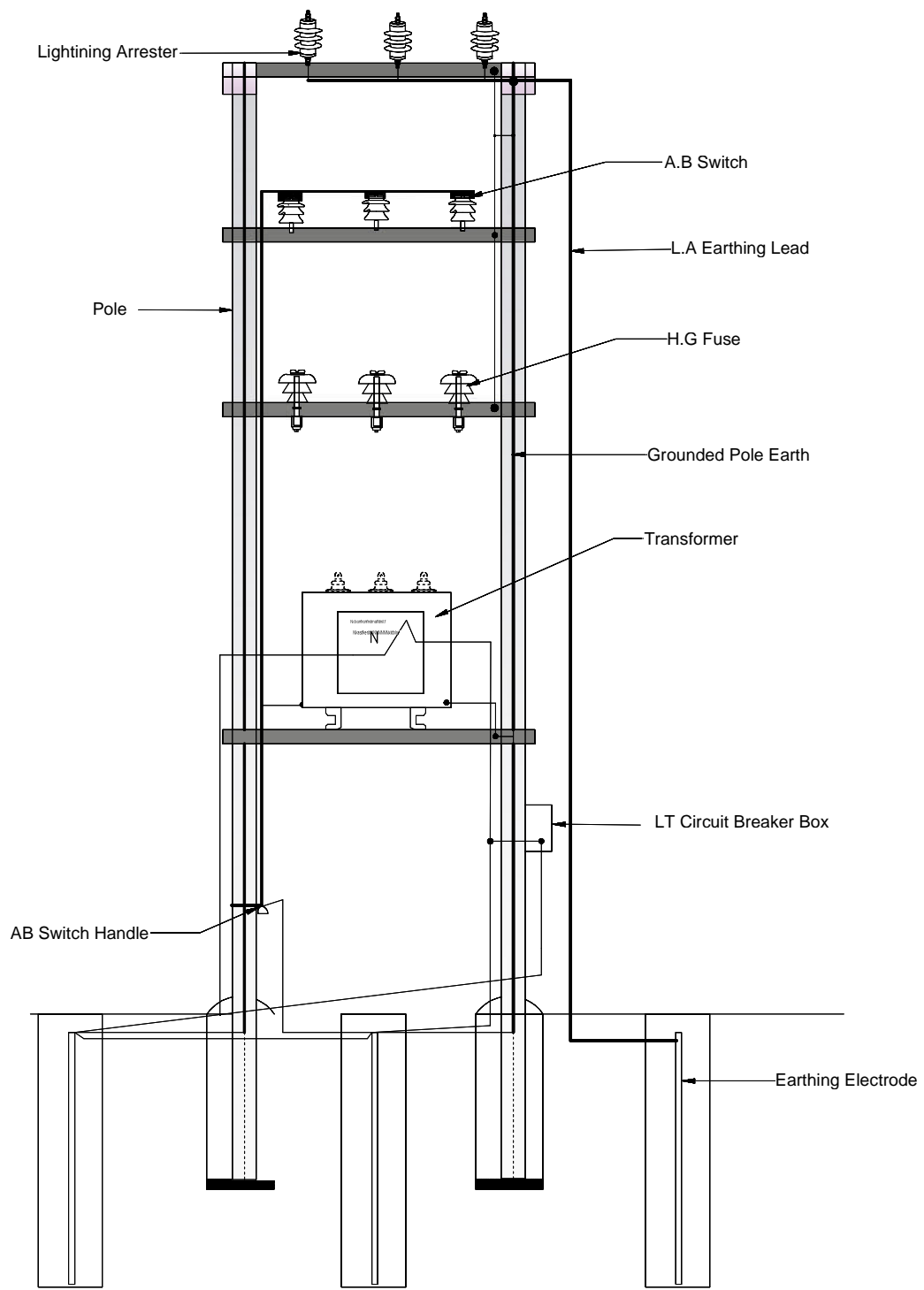
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

11KV Horn Gap Fuses Mounting Details

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
FO					

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:

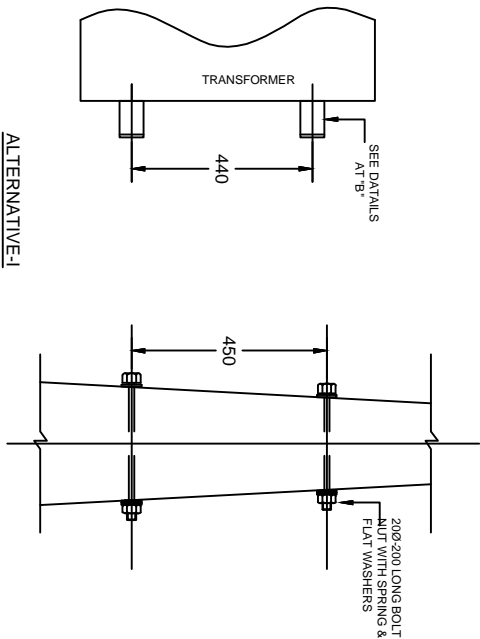
Revamped Distribution Sector Scheme (RDSS)

TITLE

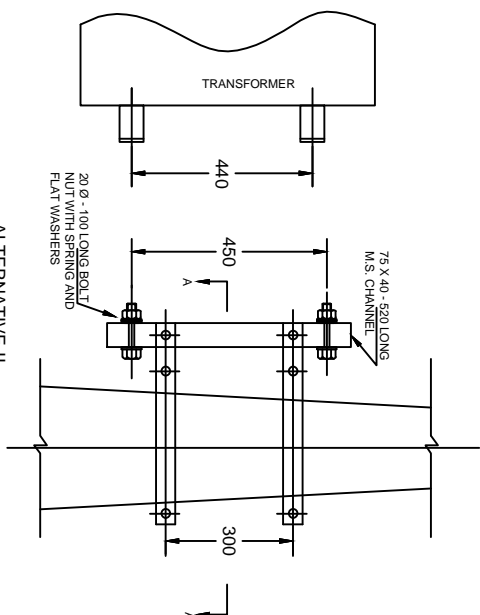
Earthing Arrangement For Distribution Sub-Station

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

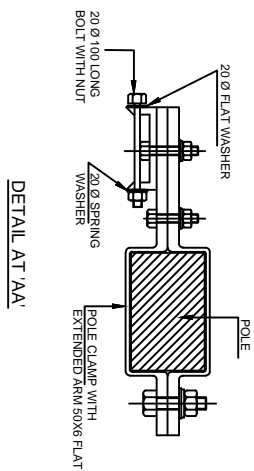
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /DTR-SS/07	1 OF 1	0



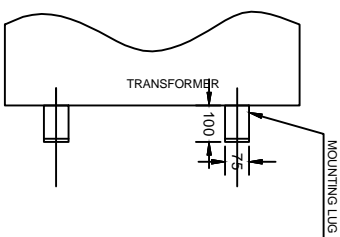
ALTERNATIVE-I



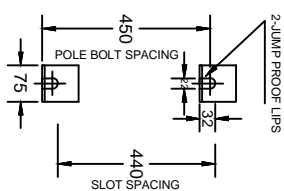
ALTERNATIVE-II



DETAIL AT 'AA'



DETAIL AT "B"



ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

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



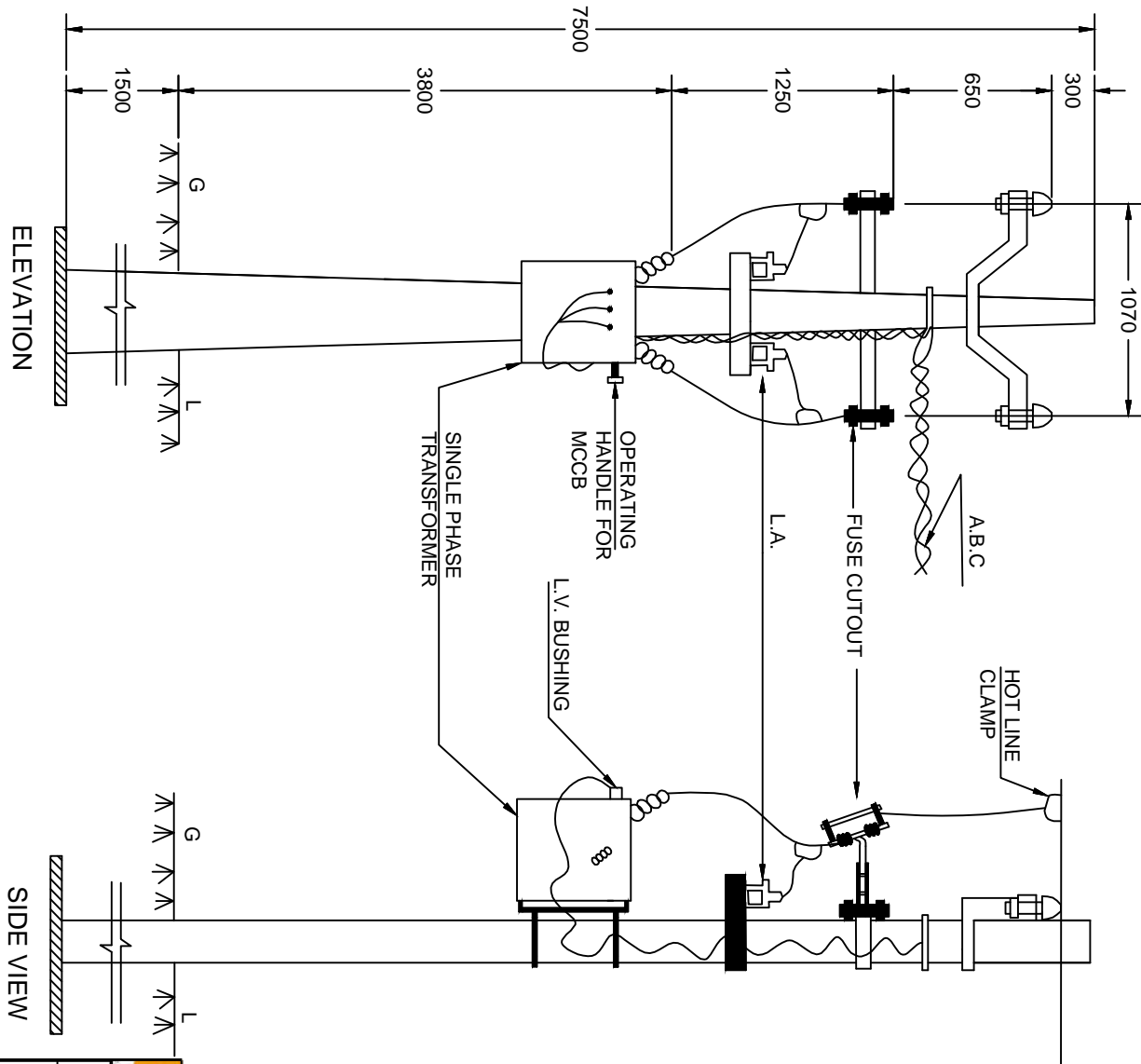
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: Single Phase Transformer Mounting Details

REV. NO.	PREPARED	CHECKED	APPROVED	DATE
R0				

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



BILL OF MATERIAL

P.C.C POLE 7.5 M	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. 20X50X6-600 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:-

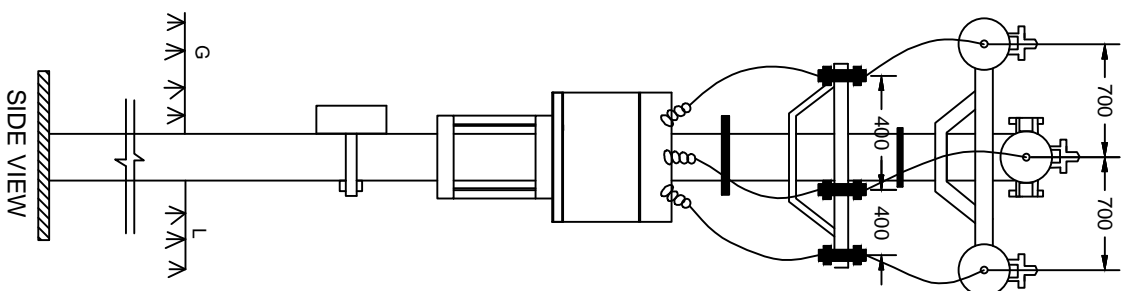
1. TRANSFORMER MOUNTING DETAILS ARE AS PER REC CONSTRUCTION STANDARD F-14
2. AS AN ALTERNATIVE ARRANGEMENT TO ABC L.T LINE SHOWN IN THE DRAWING,CABLE CONNECTION CAN BE USED TO THE FIRST POLE OF CONVENTIONAL L.T LINE

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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



SUPPORTS(8 M/200 KG)

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

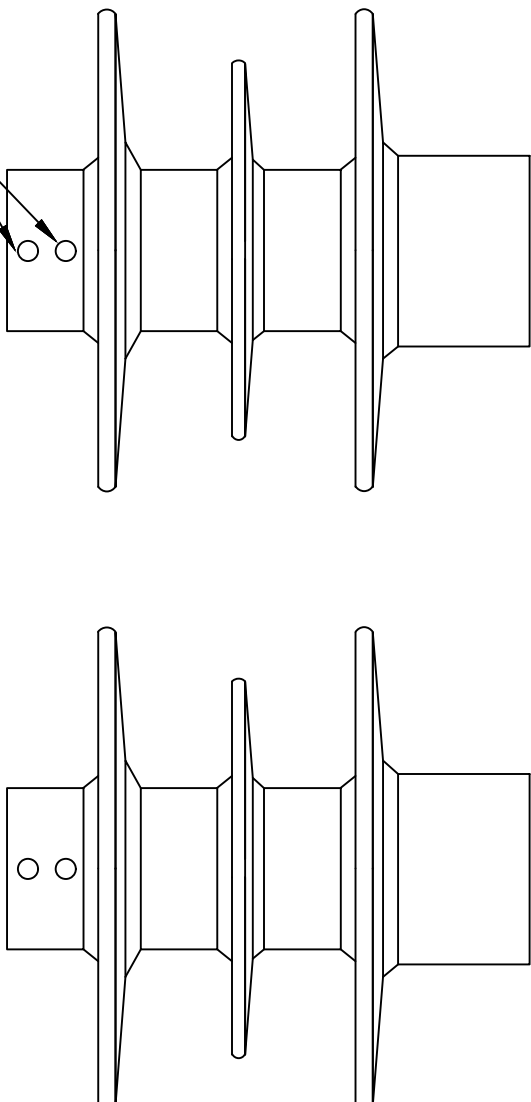


PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

Distribution Sub-Station Mounting Arrangement on Single Pole

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

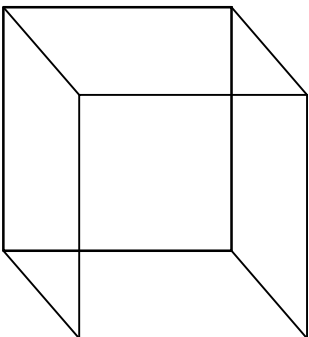


LOT No DATE
CLOCKS

NOTES:-

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

Meter Board



All dimensions are in mm.

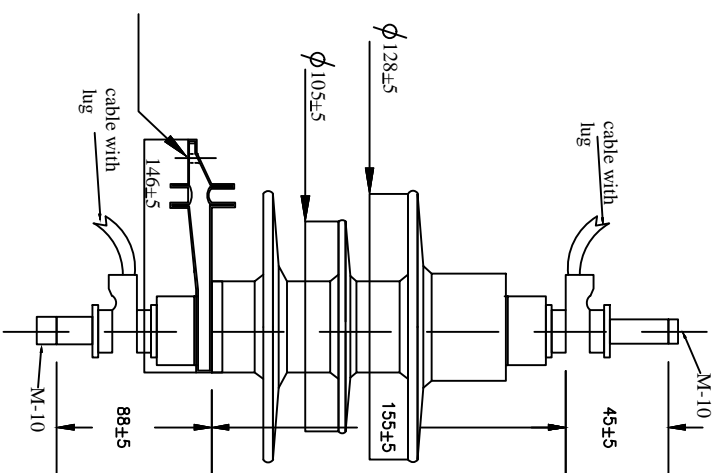
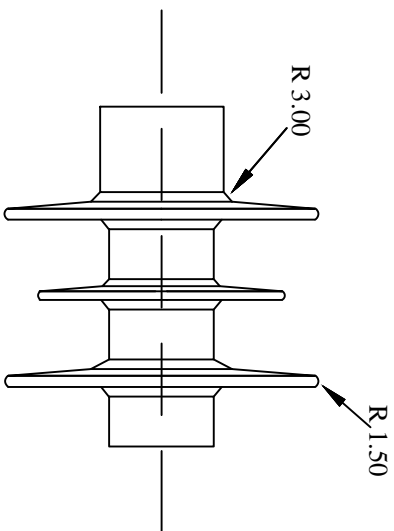
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE Lay Out Drawing of Lighting Arrestor (1)

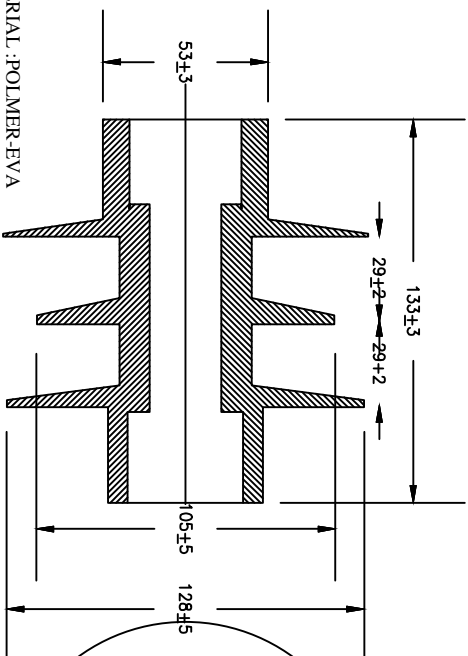
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.		
A3 MTS	REC/RDSS/DTR-SS/13A	1 OF 1	0		



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

MV SURGE ARRESTER
 TYPE: NDA WITH DISCONNECTOR

FOR TENDER PURPOSE ONLY




MATERIAL :POLYMER-EVA

MV SURGE ARRESTER
 TYPE: NDA
 HOUSING DETAILS

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 MTS	REC/RDSS/DTR-SS/13B	1 OF 1	0

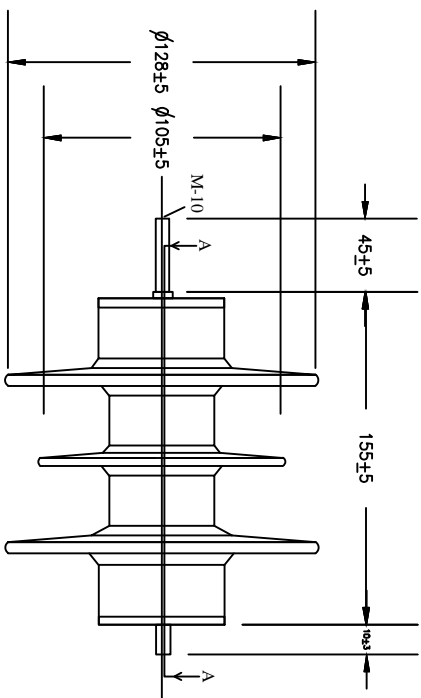


आर इलेक्ट्रिकल
REC
REPUBLICAN ELECTRICAL CORPORATION LTD.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE:
 Lay Out Drawing of Lighting Arrestor (2)

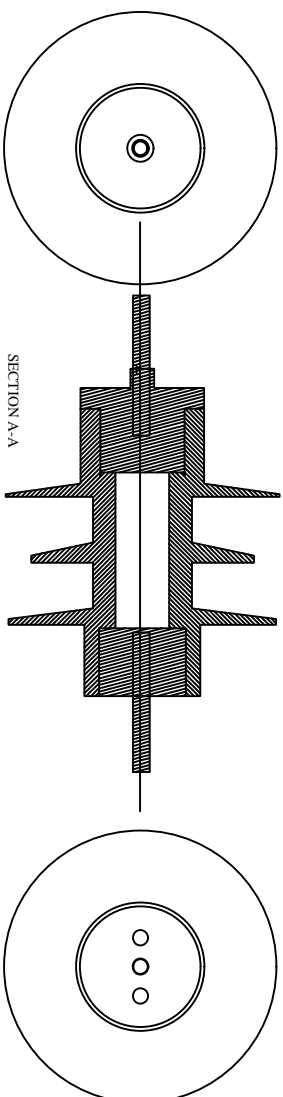
Rural Electrification Corporation Ltd.



NOTES:-

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

MV SURGE ARRESTER
TYPE: NDA
SECTIONAL VIEW



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

Lay Out Drawing of Lighting Arrester (3)

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

FOR TENDER PURPOSE ONLY

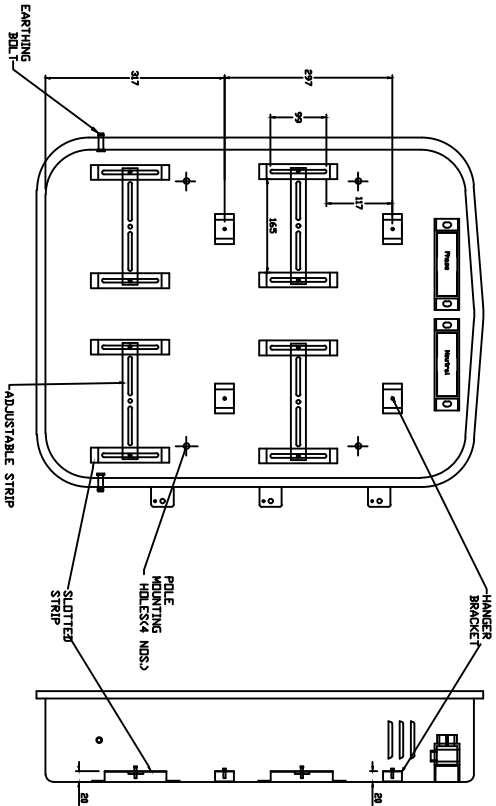
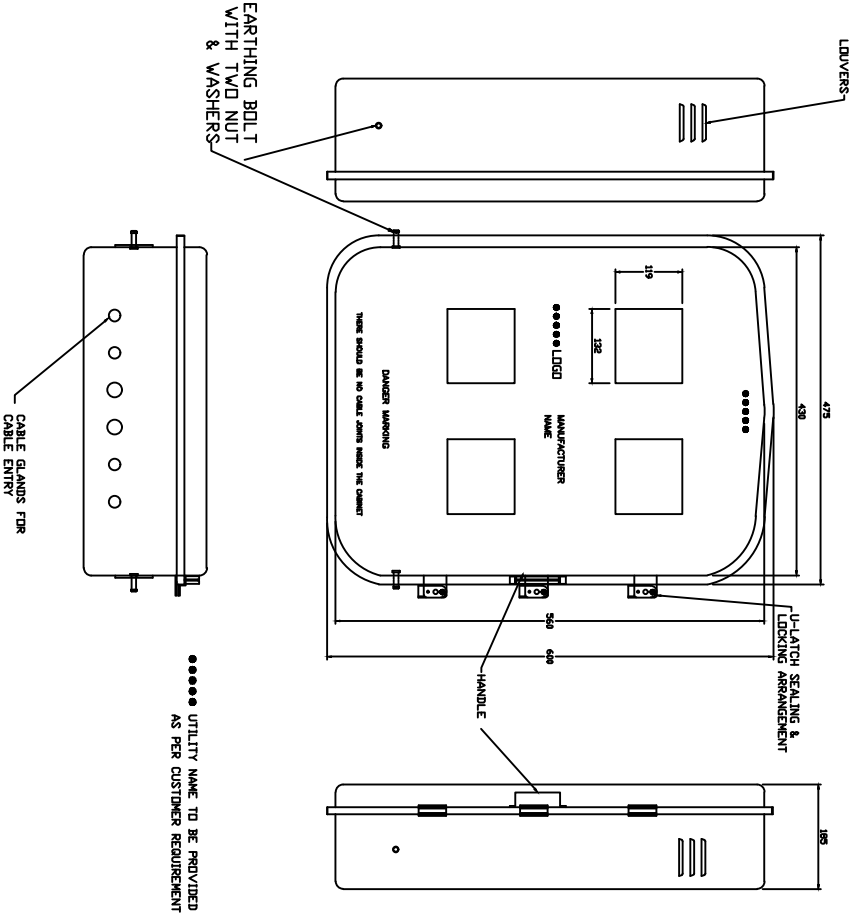
 **REC** Rural Electrification Corporation Ltd.

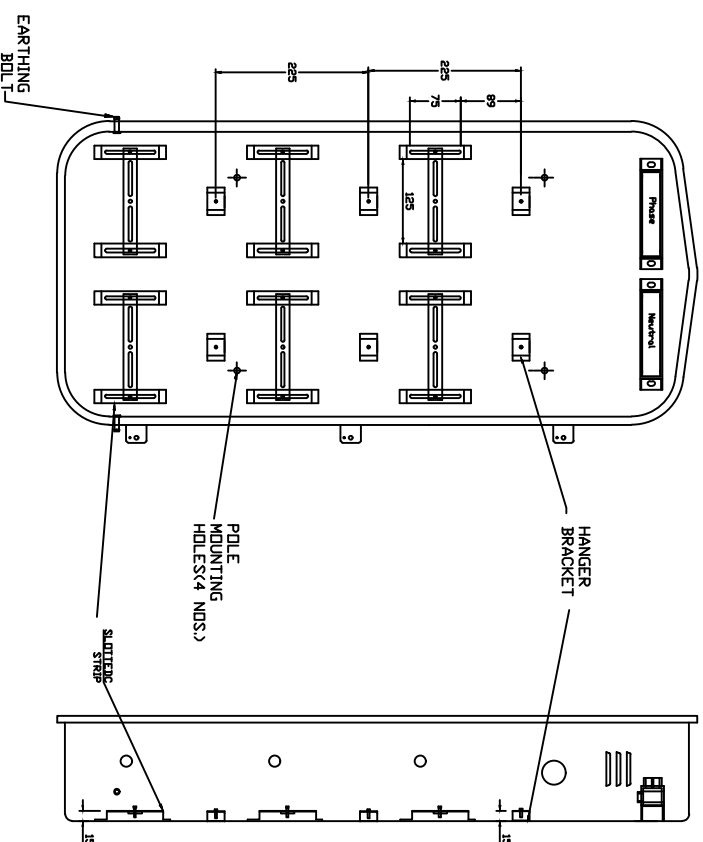
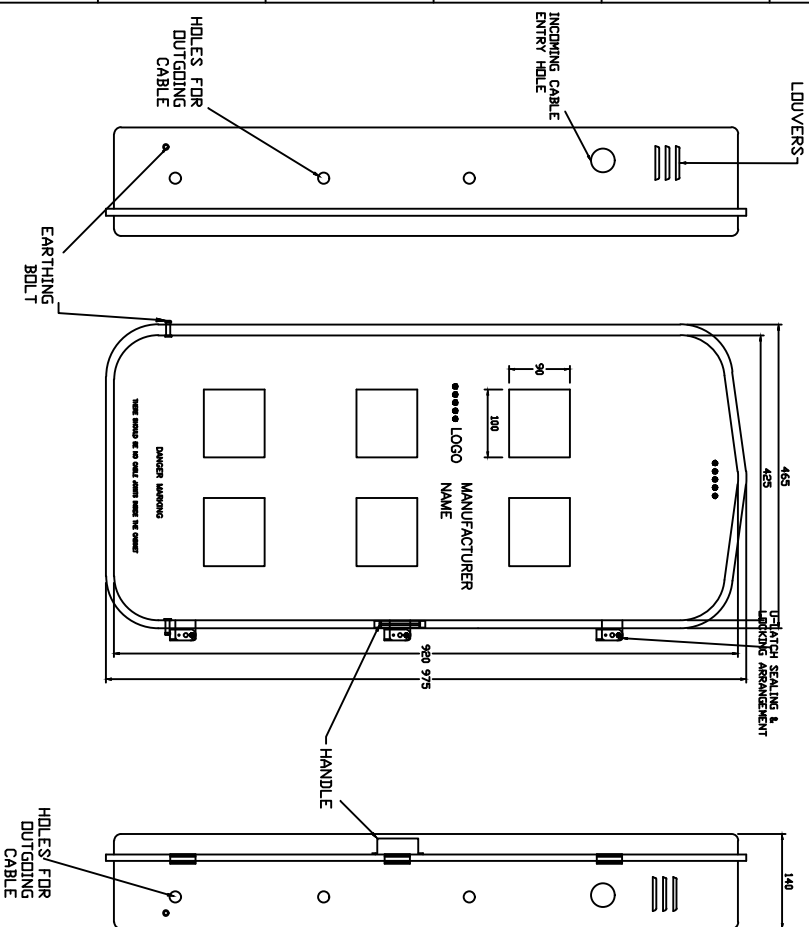
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

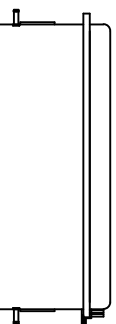
All dimensions are in mm.

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





FOR TENDER PURPOSE ONLY



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

All dimensions are in mm.



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

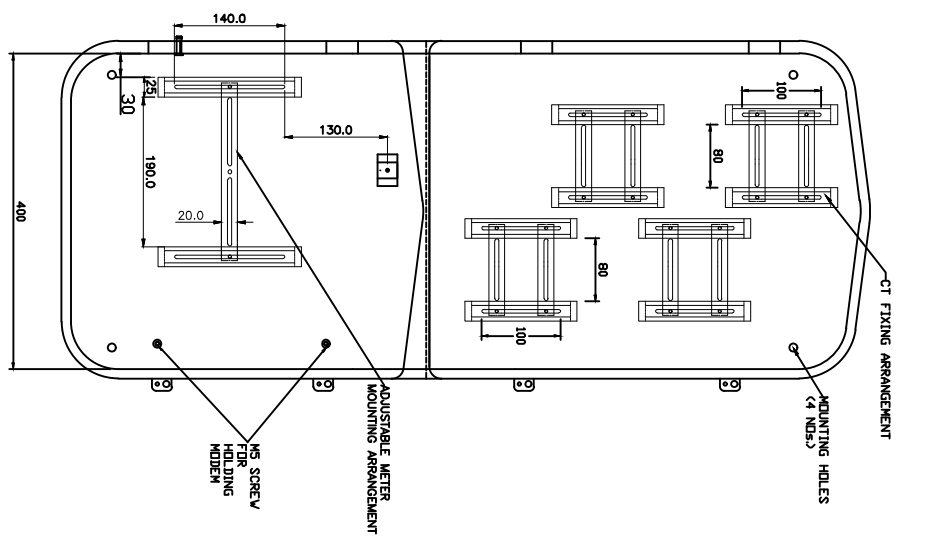
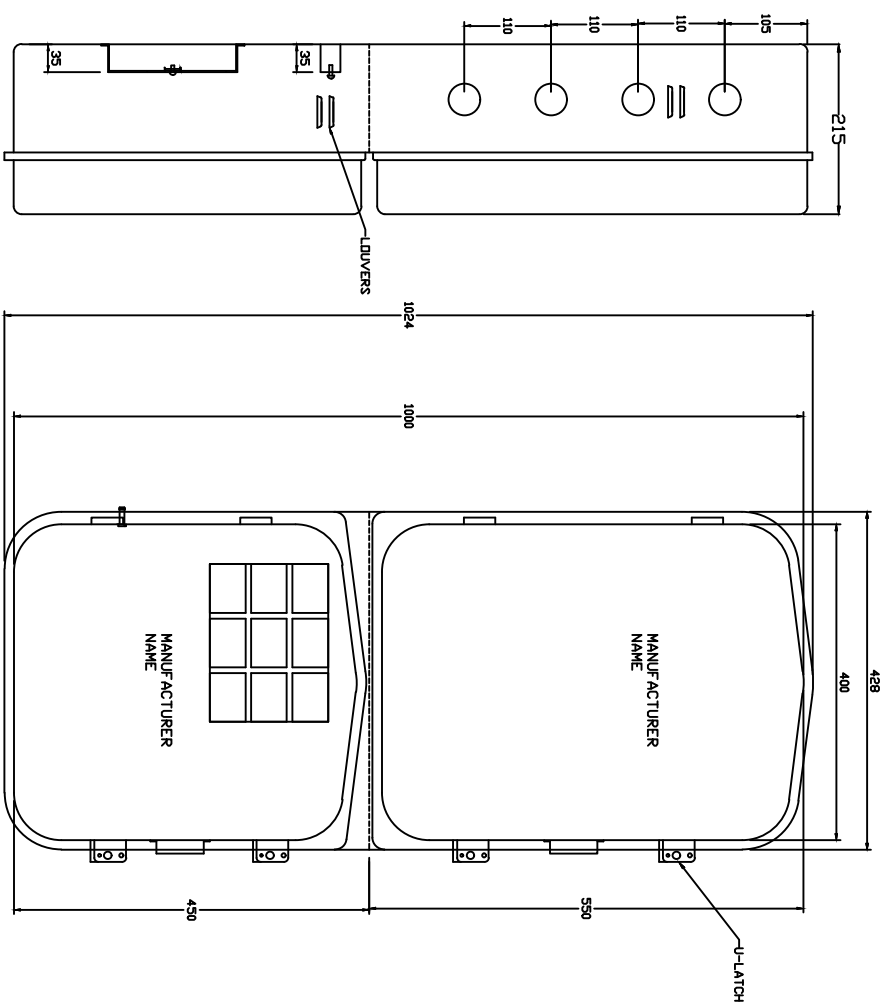
TITLE: 6-IN-1 MMB FOR SINGLE PHASE METER WITH MOC (MULTIPLE OUTGOING CONNECTOR BOX)

SIZE/SCALE: DRG. NO.

As MTS REC/RDSS/DTR SS/15

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

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

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

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

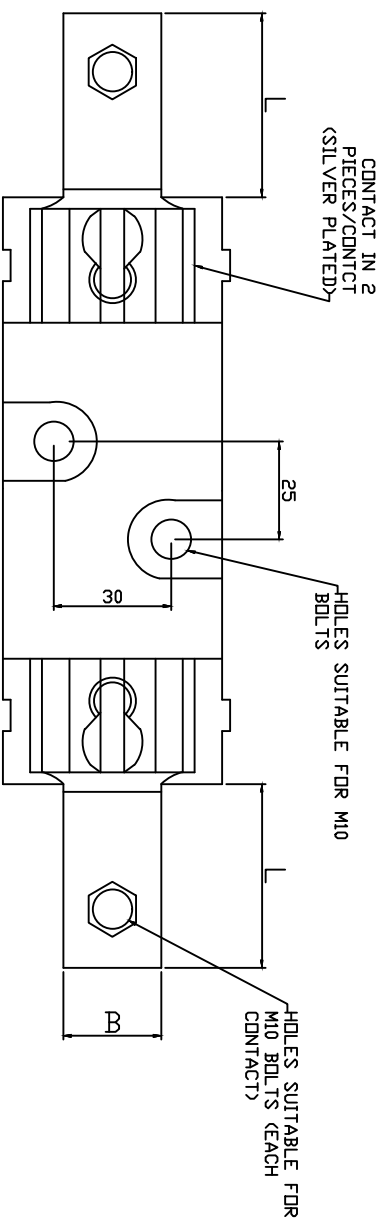
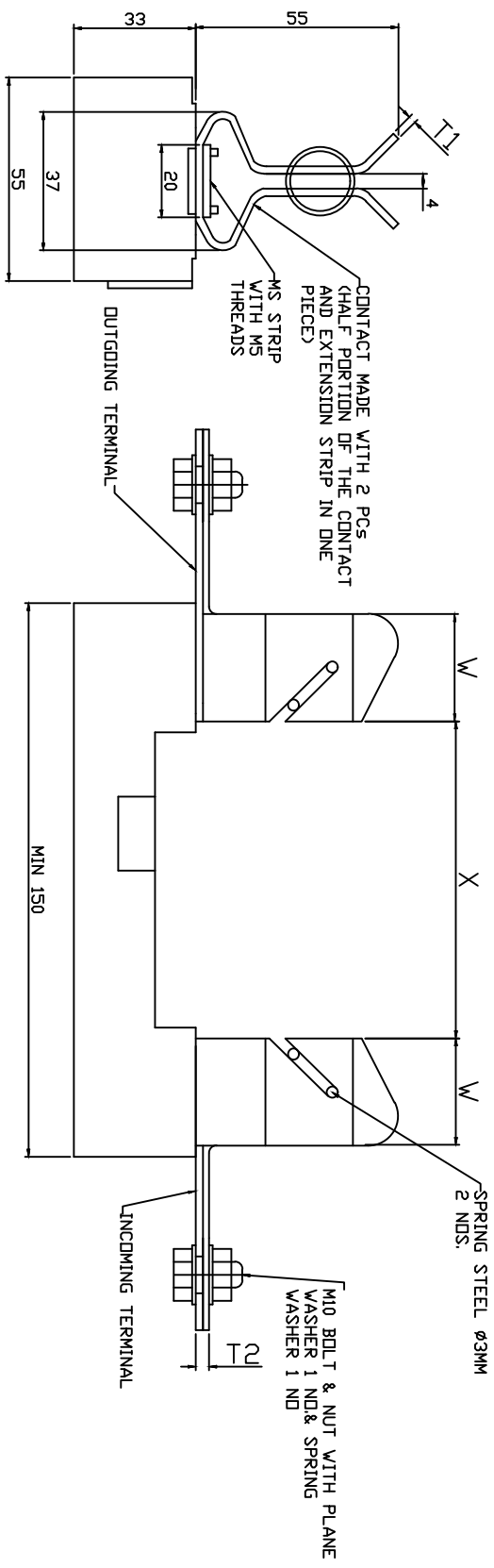


REC

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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



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

All dimensions are in mm.



FOR TENDER PURPOSE ONLY
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

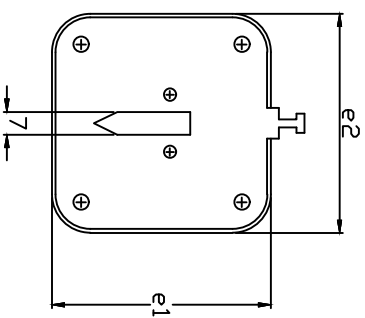
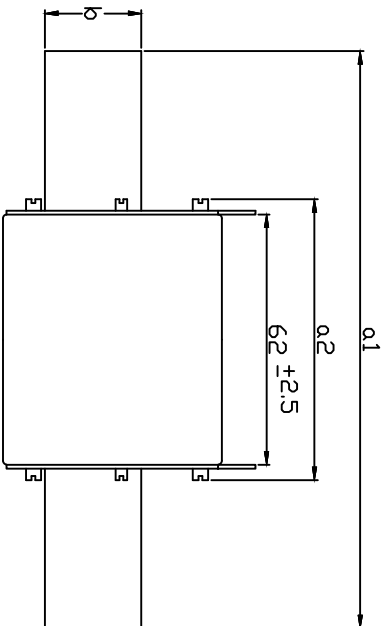
SIZE SCALE: DRG. NO.

A3 MTS REC/RDSS/DTR SS/17

SHT. NO. REV. NO.

1 OF 1 0

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



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

All dimensions are in mm.



Rural Electrification Corporation Ltd.

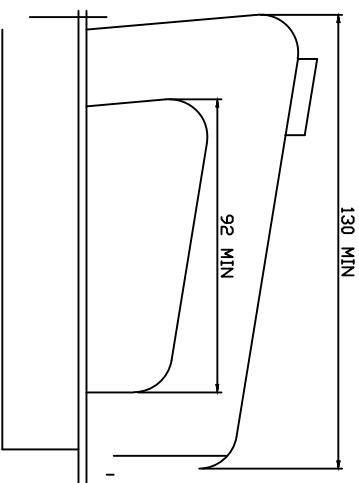
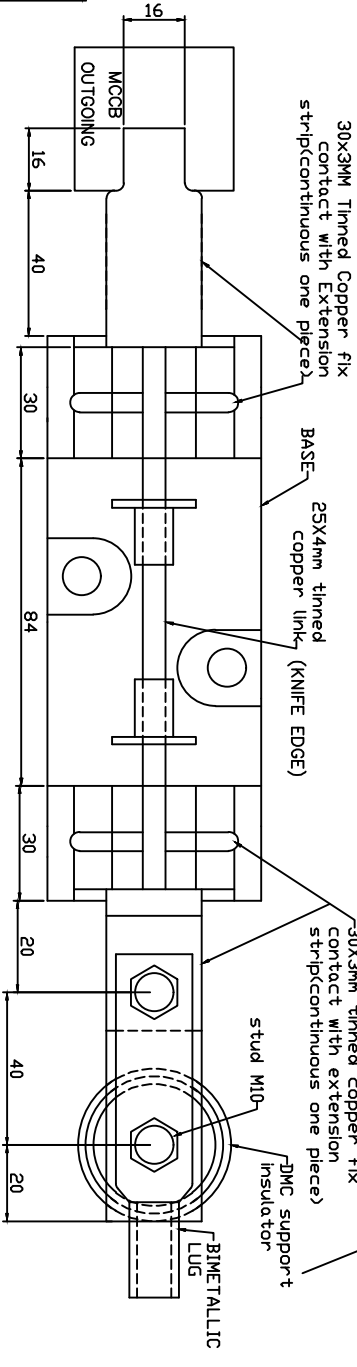
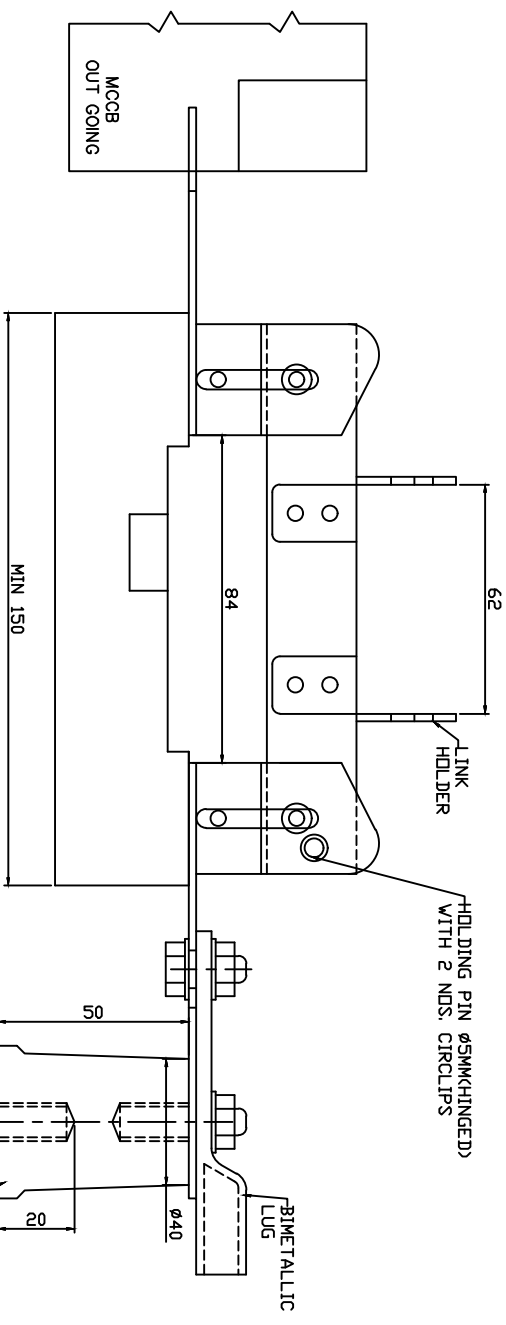
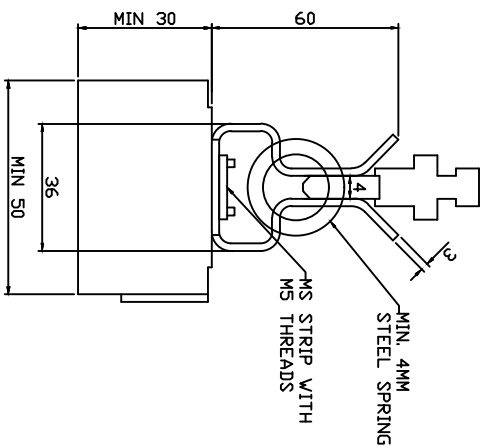
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: HRC FUSE LINK

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

FOR TENDER PURPOSE ONLY

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



PULLER/HANDLE

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

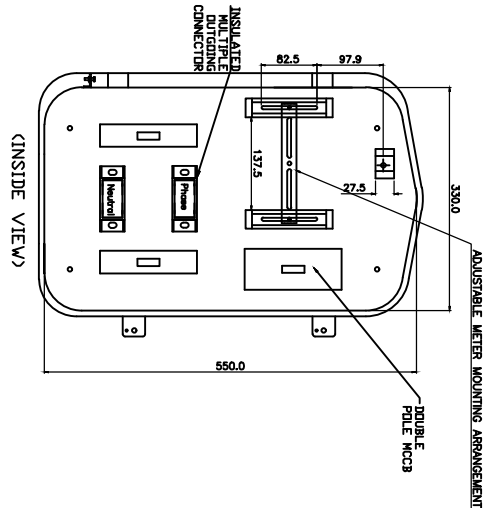
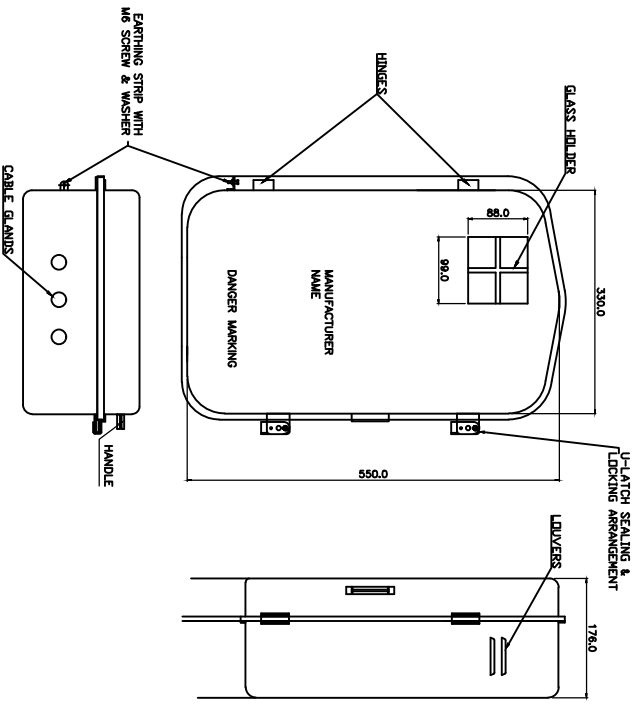
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

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


अरु ई सी
REC
 Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

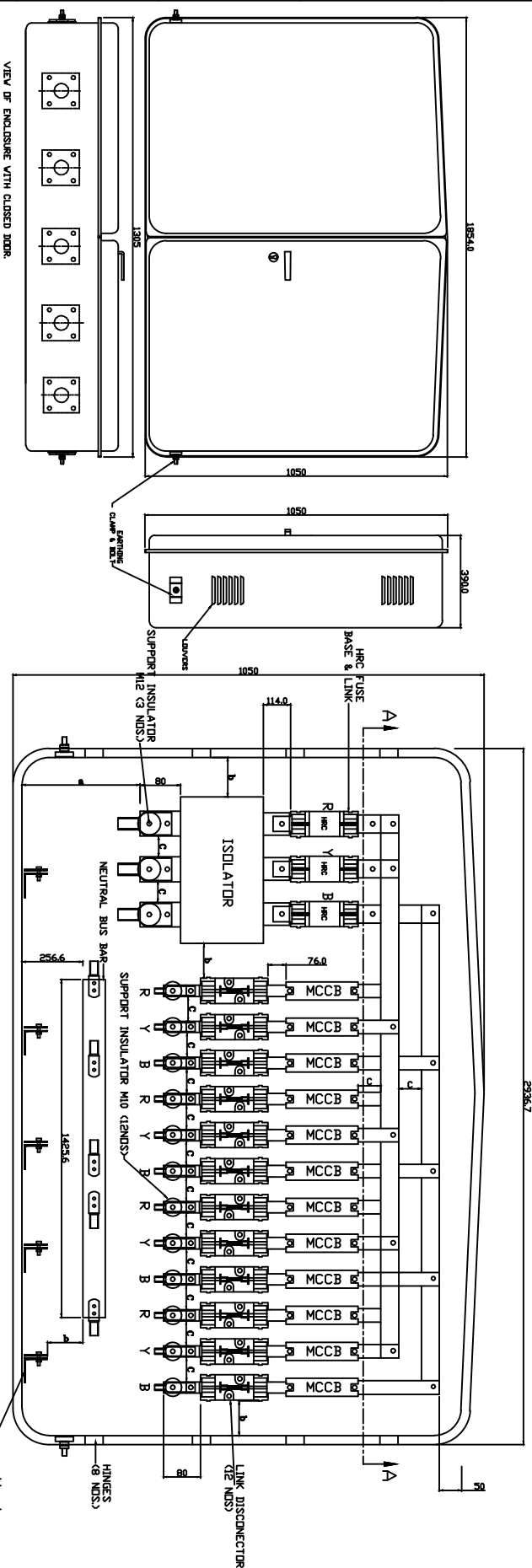
REC **आर ई सी**
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

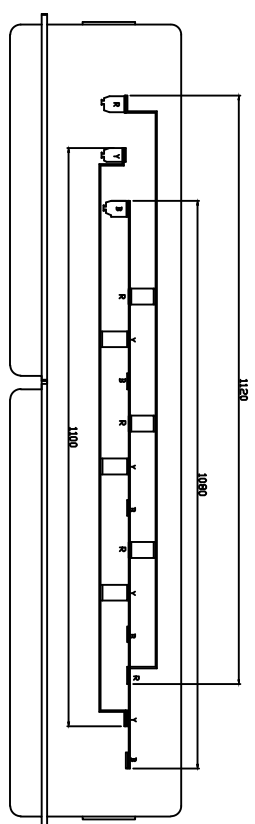
TITLE
10 KVA & 16 KVA L.T. DISTRIBUTION BOX WITH MCCBs (DEEP DRAWN TYPE)

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

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

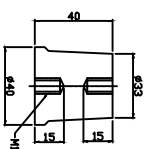


VIEW OF ENCLOSURE WITH CLOSED DOOR.

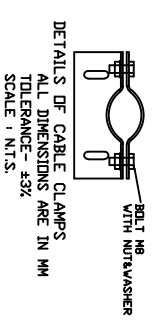


SECTION 'A-A' WITH BUS BAR ASSEMBLY DETAILS.

DETAILS OF SUPPORT INSULATOR FOR NEUTRAL BUS BAR (3 NOS.)



MINIMUM CLEARANCE
 $a = 250$
 $b = 75$
 $c = 50$




All dimensions are in mm.

FOR TENDER PURPOSE ONLY

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

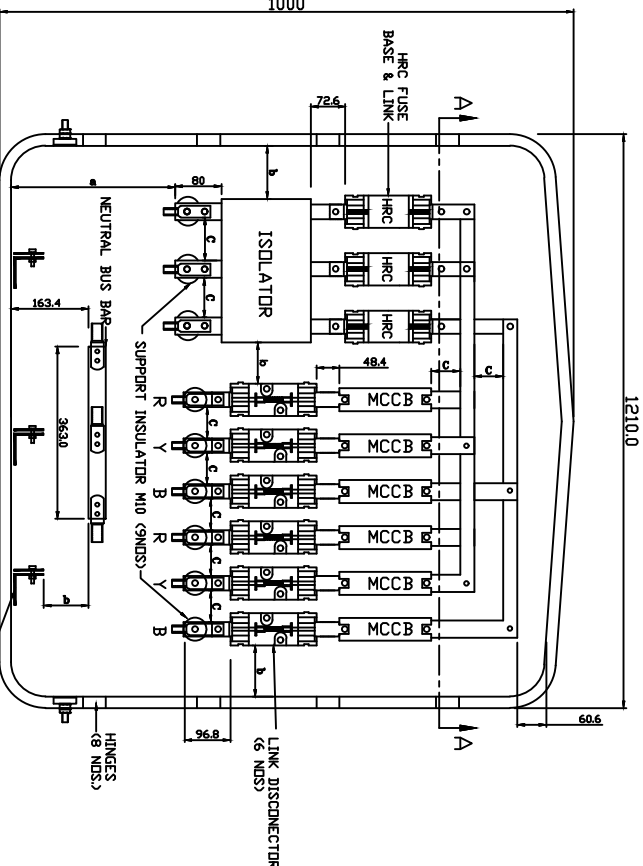
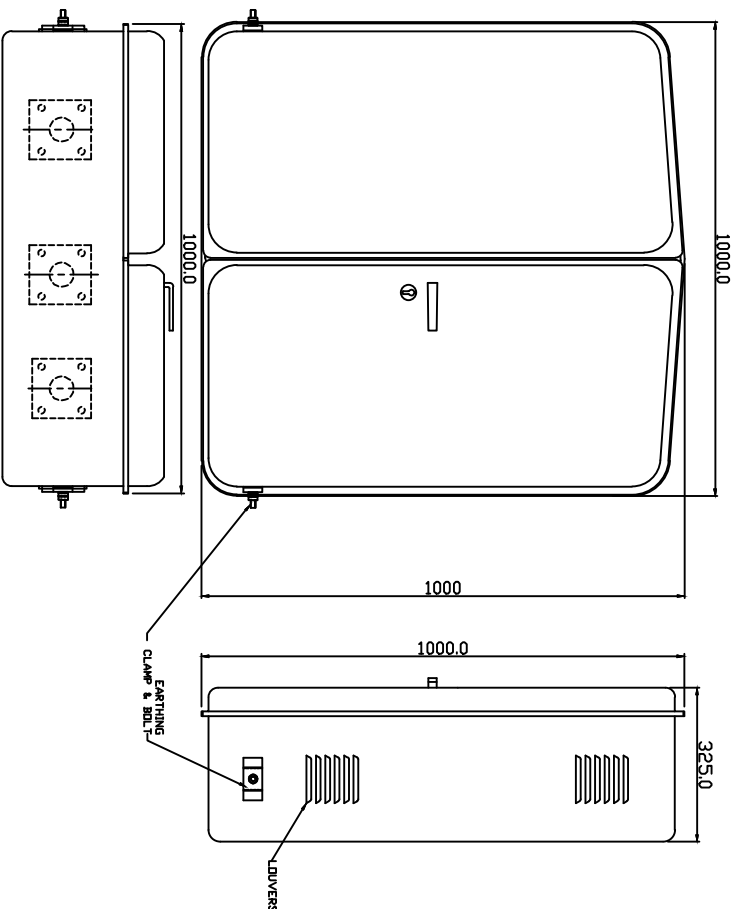
SIZE/SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/DTR SS/22	1 OF 1	0



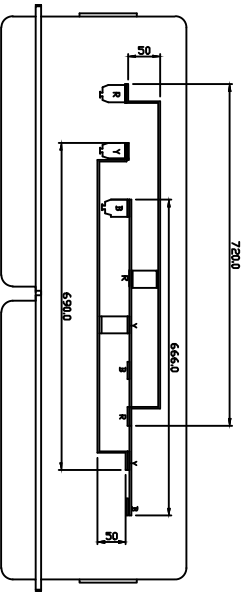
अरु ई सी
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

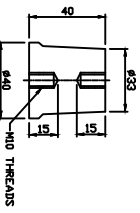
TITLE: L.T. DISTRIBUTION BOX WITH ASSY. DETAILS FOR 315 KVA



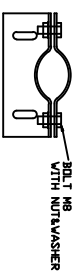
VIEW OF ENCLOSURE WITH CLOSED DOOR.



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



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

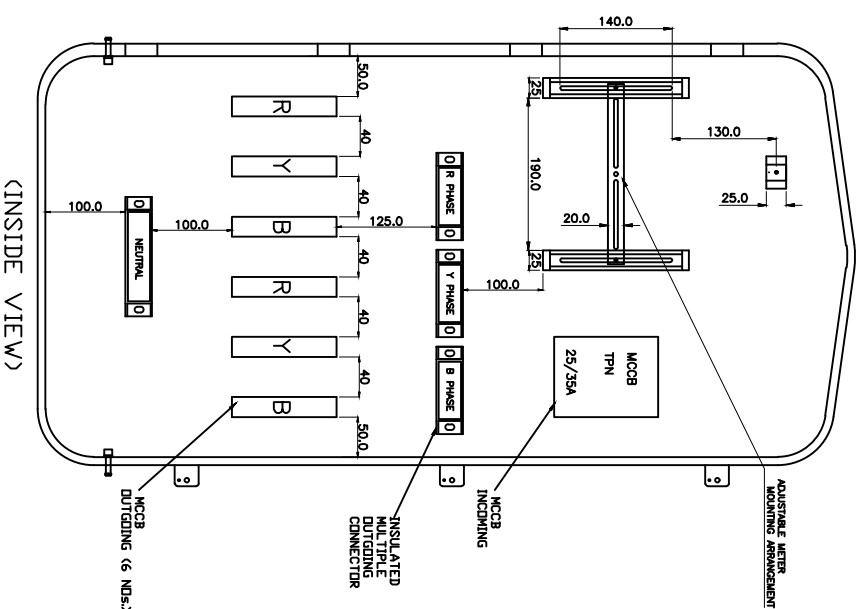
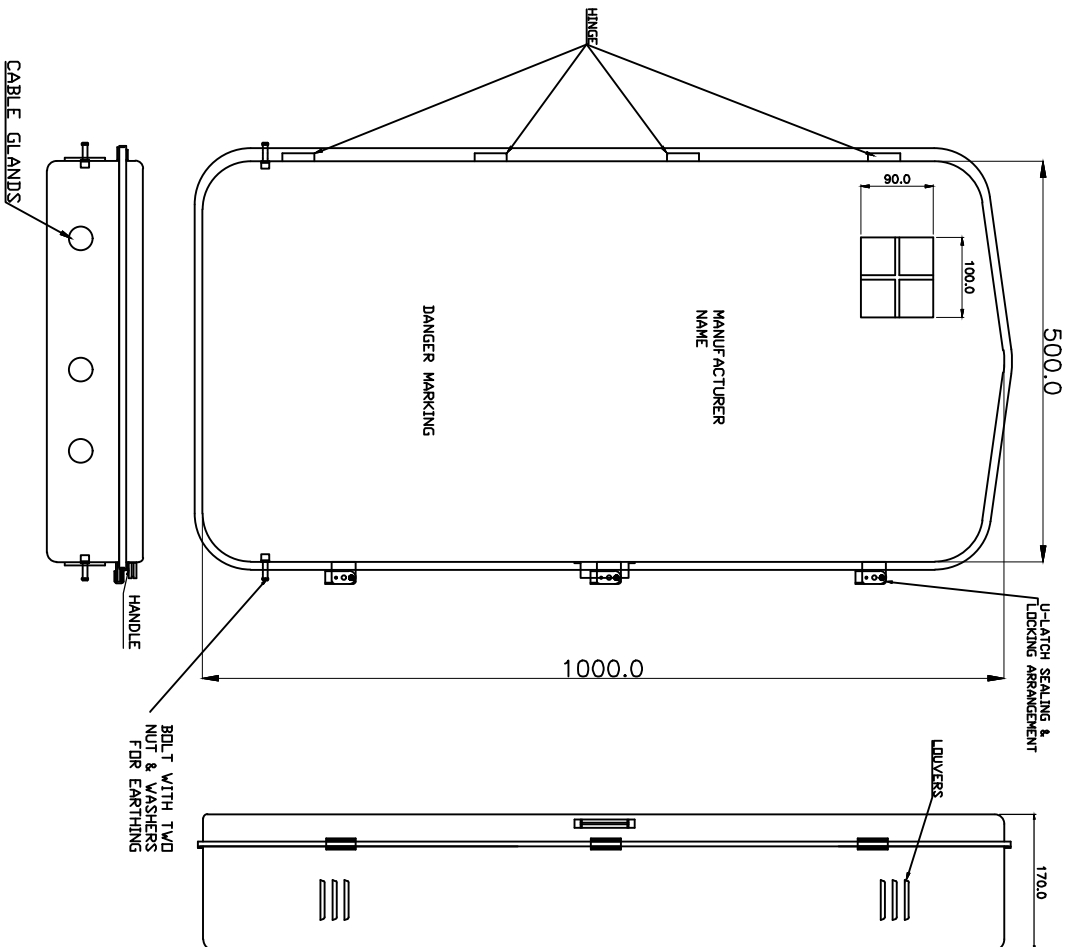
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

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

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

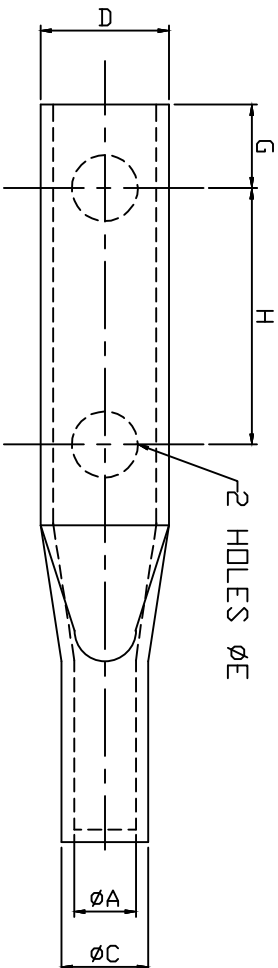
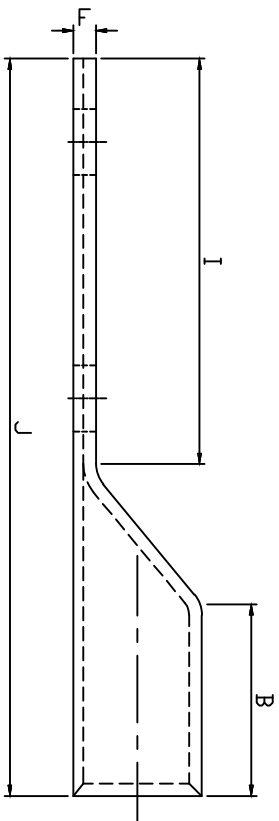
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					

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

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

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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



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

All dimensions are in mm.

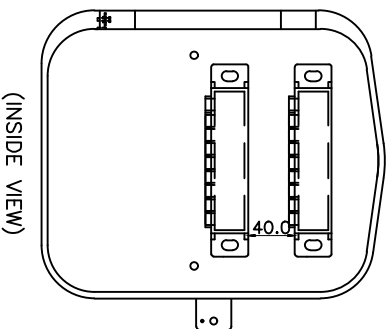
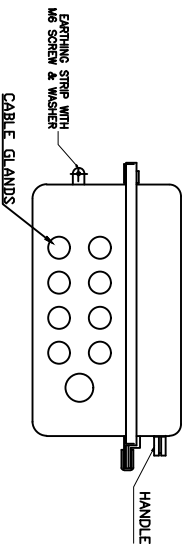
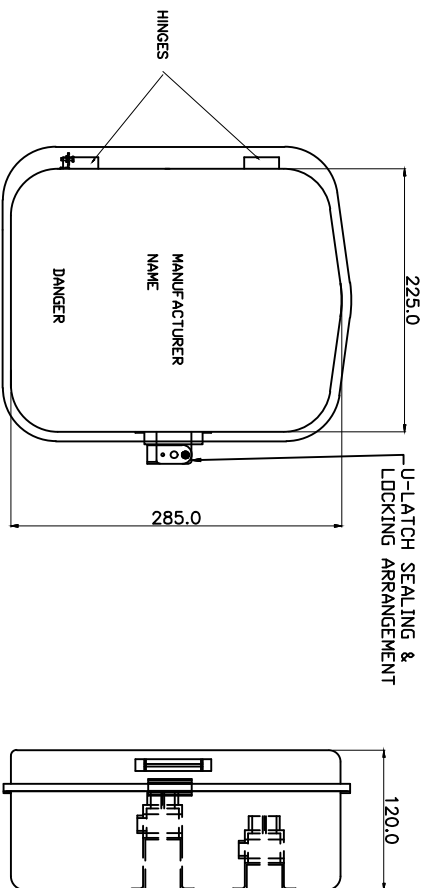


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: BIMETALLIC LUGS

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



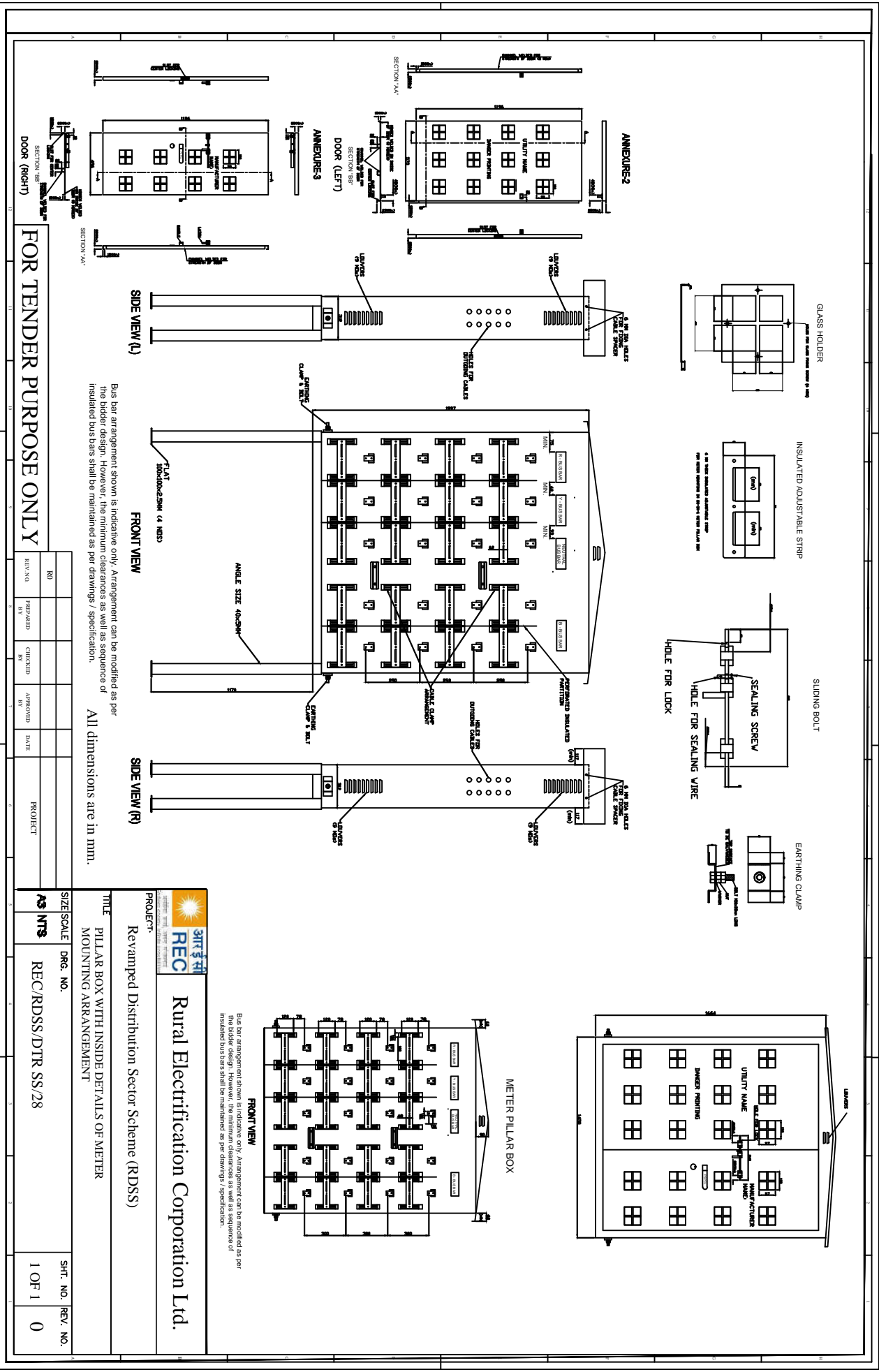
FOR TENDER PURPOSE ONLY



आर ई सी
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

				SIZE/SCALE		DRG. NO.		SHT. NO.		REV. NO.					
R0						REC/RDSS/DTR SS/26									
PREPARED BY		CHECKED BY		APPROVED BY								DATE		PROJECT	
REV. NO.						A3		MTS							



FOR TENDER PURPOSE ONLY

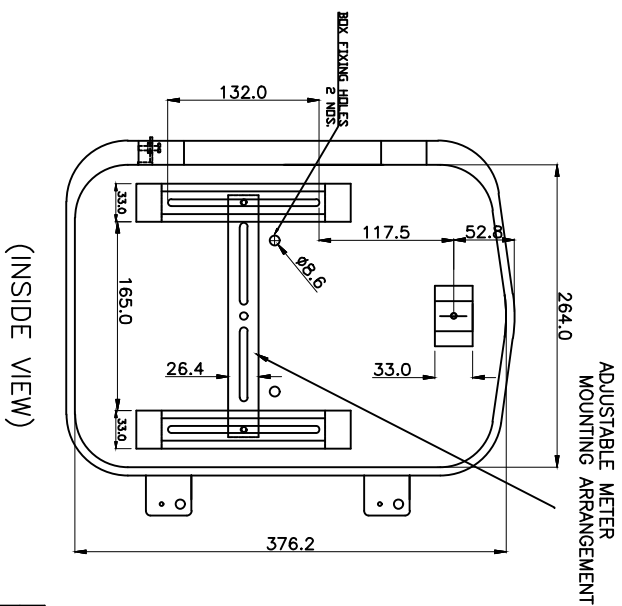
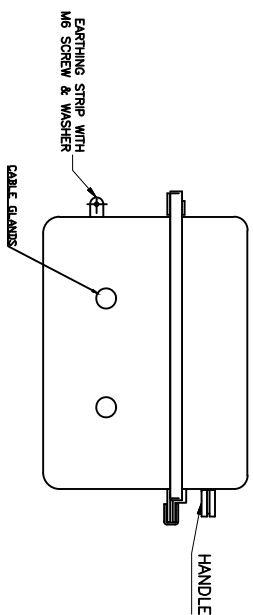
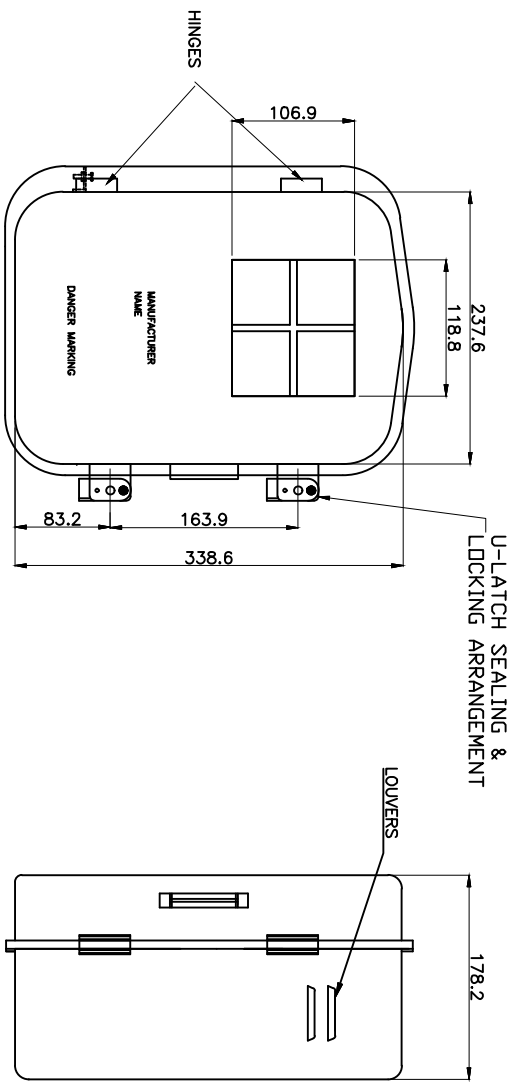
NO									
REVISED	BY	CHECKED	BY	APPROVED	DATE				
PROJECT									

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

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: PILLAR BOX WITH INSIDE DETAILS OF METER MOUNTING ARRANGEMENT



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

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

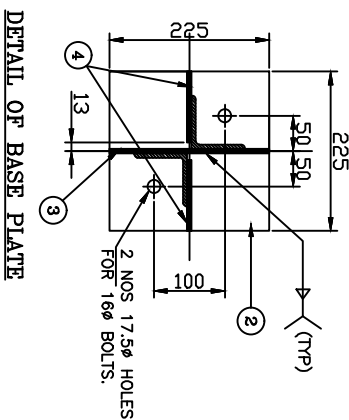
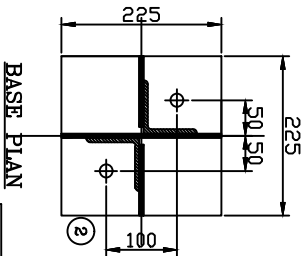
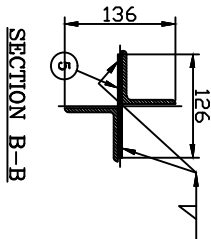
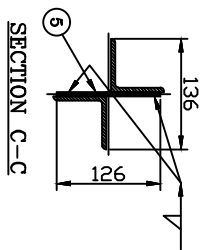
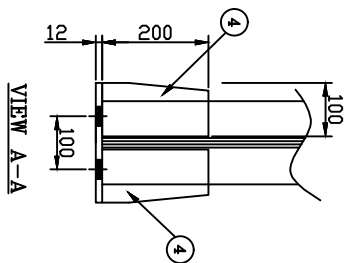
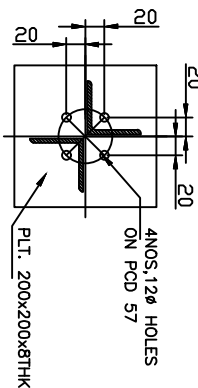
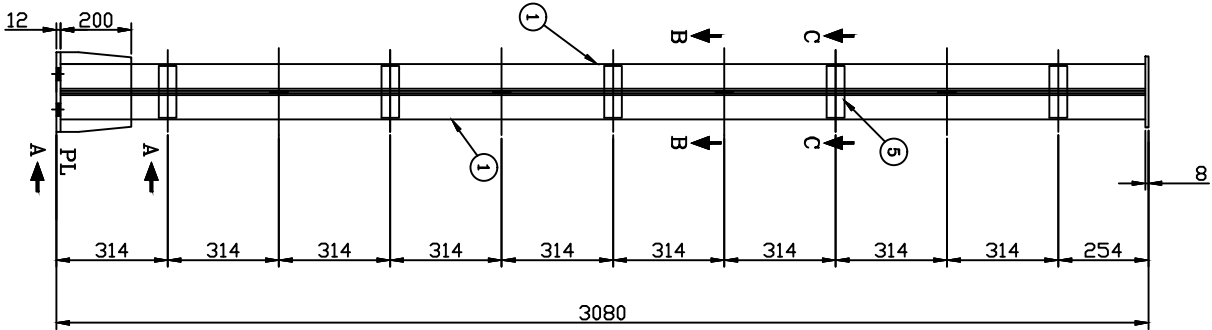
SIZE/SCALE DRG. NO.

A3 MTS REC/RDSS/DTR SS/29

SHT. NO. REV. NO.

1 OF 1 0

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



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

WEIGHT OF THE STRUCTURE : 49.46 kg

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

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

NOTES

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

FOR TENDER PURPOSE ONLY



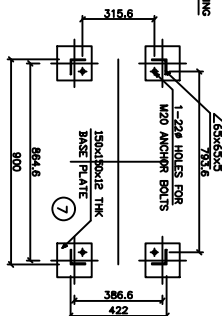
Rural Electrification Corporation Ltd.

PROJECT.

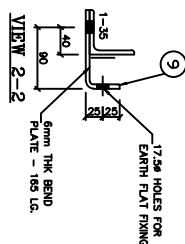
Revamped Distribution Sector Scheme (RDSS)

TITLE STRUCTURAL DETAILS OF 11kV PI

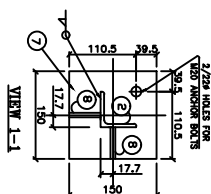
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
A3	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
	NTS	REC/ RDSS /33/11kV PSS/01		1 OF 1	0



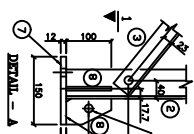
VIEW 3-3



VIEW 2-2



1



1

HEX BOLT M16X55 LG.	0.124	47	5.803
HEX BOLT M16X40 LG.	-	-	-
SPRING WASHER	0.009	47	0.443
TOTAL WEIGHT OF BOLTS & NUTS =			6.25

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

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 12mm FOR 10mm BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANIZED AFTER
4. LESS THAN 610mm/24in. FOR ALL STRUCTURAL STEEL MEMBERS,
5. ALL 154x45x5 WILL HAVE 25mm BACK MARK.
6. ALL 150x50x6 WILL HAVE 25mm BACK MARK.
7. ALL BRACKET MARK SHALL BE USED UNDER EACH NUT.
8. ALL STRUCTURAL STEEL SHALL CONFORM TO S 2602.
9. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED OTHERWISE.
10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 4.6 OR S 1307.
11. PLAIN WELDERS SHALL BE AS PER IS 2016 & SPRING WASHER

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

STRUCTURAL DETAILS OF 11kV ISOLATOR

SIZE	SCALE	DRG. NO.
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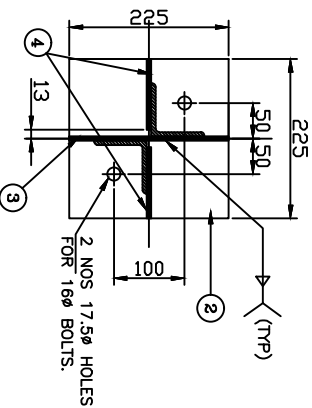
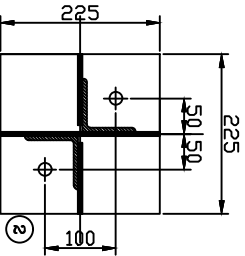
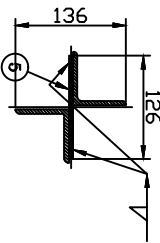
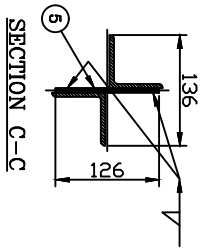
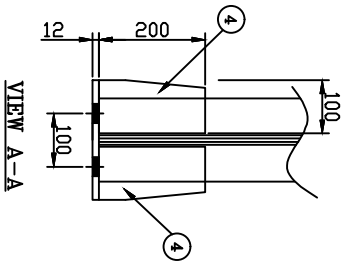
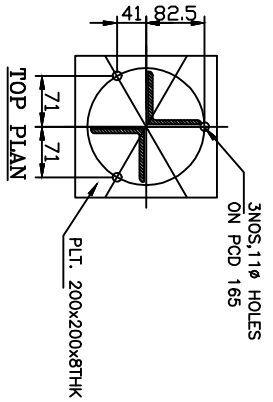
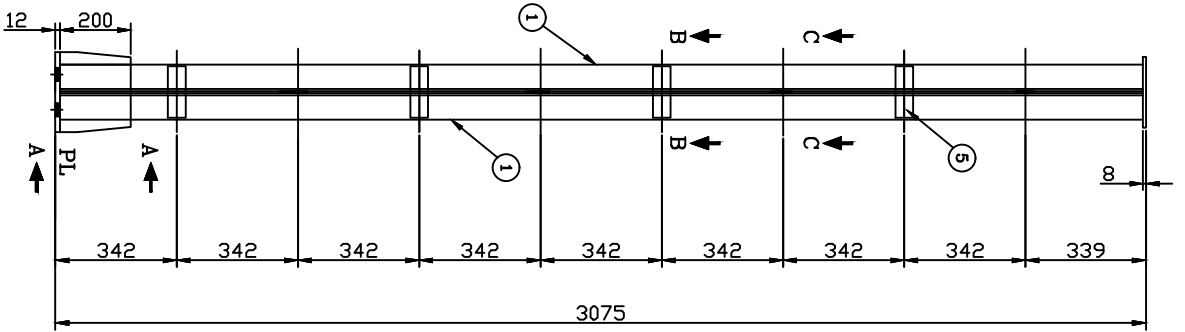
DRG. NO.

A3

REC/ RDS

10-1	0
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0



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

WEIGHT OF THE STRUCTURE : 49.47 kg

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

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

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 12.5mm FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANIZED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/50cm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L65x65 WILL HAVE 23mm BACK MARK.
5. ALL L50x50 WILL HAVE 23mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREPARED WITH "11A"
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062
9. ALL WELDS SHALL BE 6 mm FILET WELD UNLESS SPECIFIED OTHERWISE.
10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.6 OF IS: 1363 & 1367.
11. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

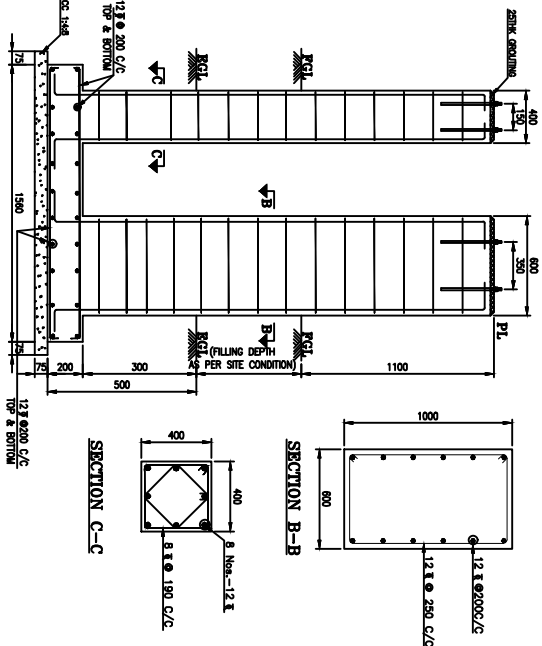
Revamped Distribution Sector Scheme (RDSS)

STRUCTURAL DETAILS OF 11KV LA

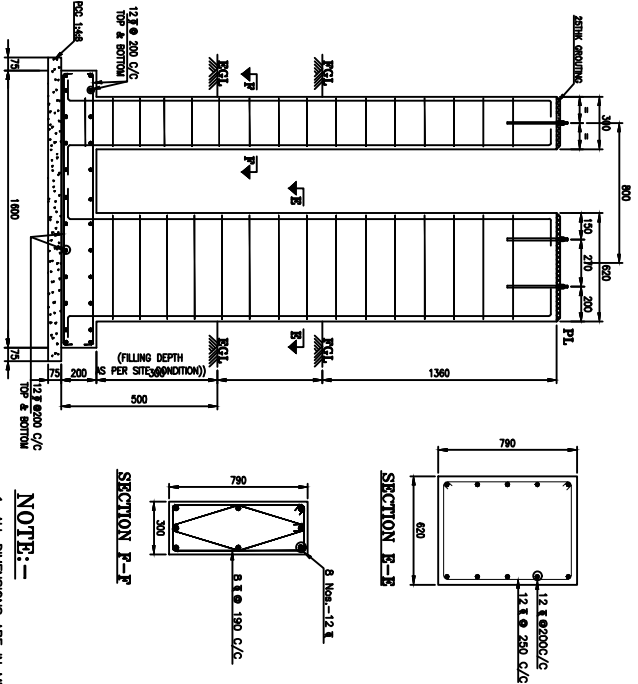
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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

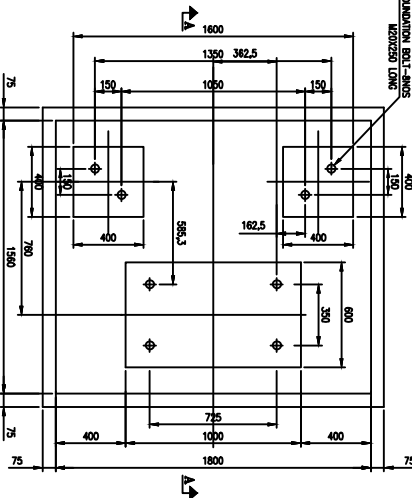
MAKE : OLG



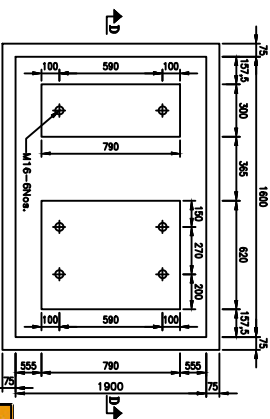
MAKE : SIEMENS



SECTION A-A



SECTION D-D



NOTE:-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL CONCRETE GRADE M20
3. REINFORCEMENT STEEL SHALL BE HYSD BAR.
4. CLEAR COVERS TO REBARS SHALL BE AS FOLLOWS
5. LAP LENGTH TO REBAR SHALL BE MIN. 50 DIA AND LAPS IN ALTERNATIVE BARS SHALL BE STAGGERED.
6. FOR DETAILS OF FOUNDATION BOLT REFER DRG NO. (3)671570-80203-F003, SIEMENS LTD. MAKE.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

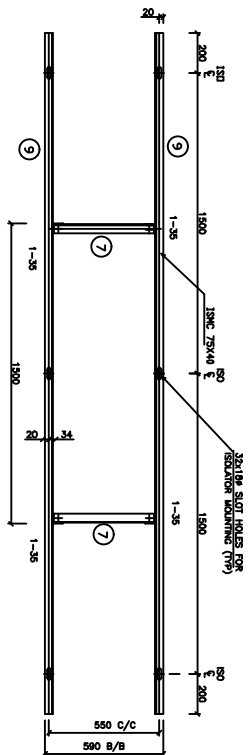
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

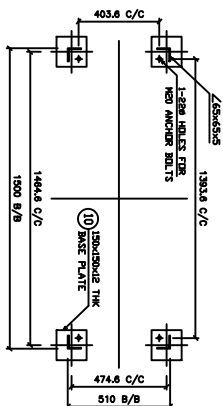
TITLE FOUNDATION DETAILS OF 11KV VCB&CT

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

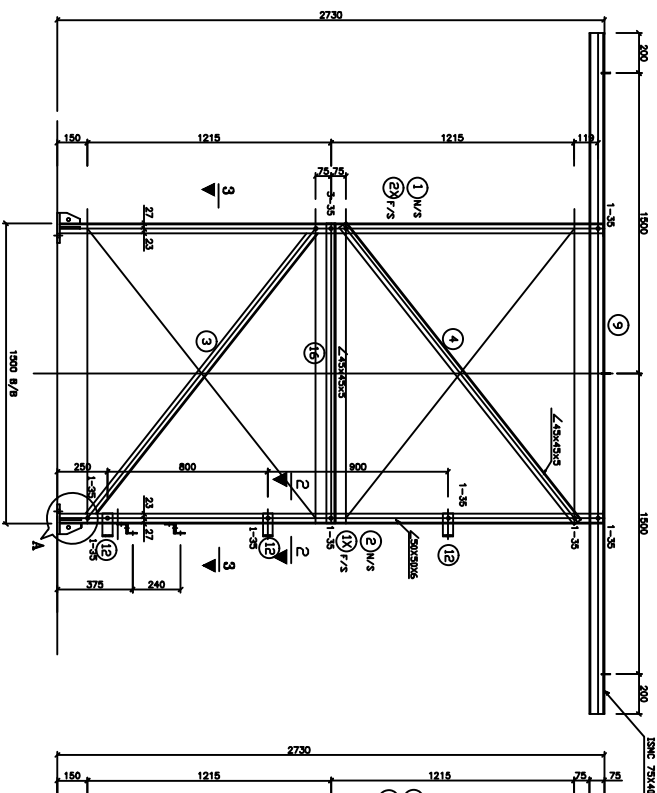
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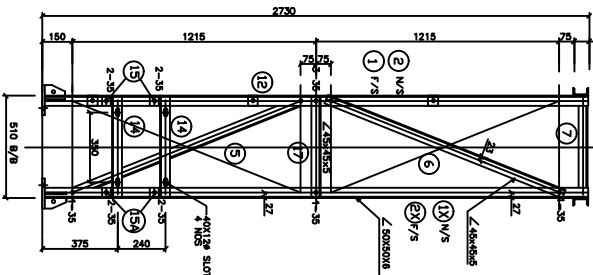
TOP PLAN
MOUNTING ARRANGEMENT PLAN FOR ISOLATOR



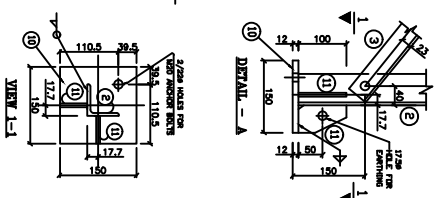
VIEW 3-3



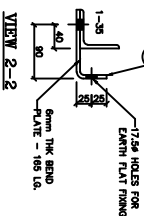
FRONT ELEVATION



SIDE ELEVATION



DETAIL - A



VIEW 2-2

WEIGHT OF STRUCTURAL STEEL	: 231.06kg
WEIGHT OF BOLTS/NUTS/WASHERS	: 0.45kg
WEIGHT OF THE STRUCTURE	: 230.61kg

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	506	8	3.4	13.76
7	L 45 x 45 x 5	629	2	3.4	5.83
8	L 45 x 45 x 5	791	2	3.4	5.39
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	957	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	0.989
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 =					231.06

HEX BOLT M16x55 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 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 AS PER IS: 4793 AND ZINC COATING SHALL NOT BE LESS THAN 70g/M² FOR STRUCTURAL STEEL MEMBERS.
4. ALL L45x45x5 WILL HAVE 25mm BACK MARK.
5. 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 PROPER CLASS 8.8 OF IS: 1307.
11. SPRING WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 2004.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

STRUCTURAL DETAILS OF 33kV ISOLATOR

SIZE

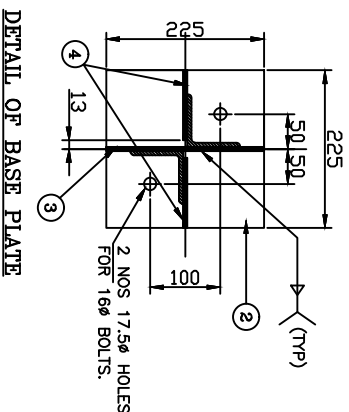
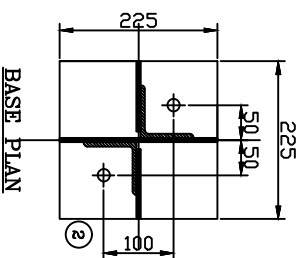
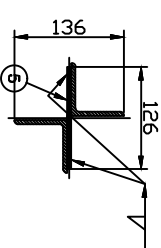
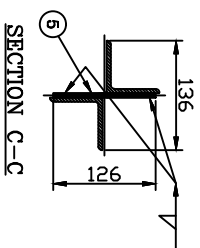
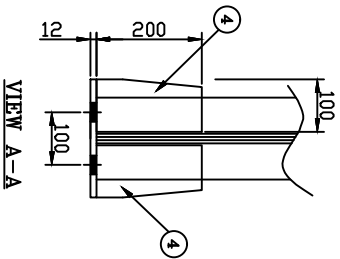
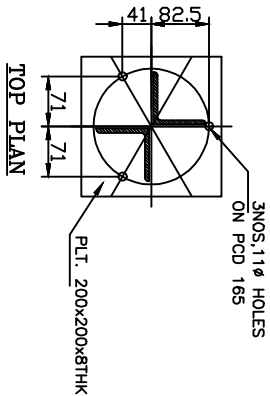
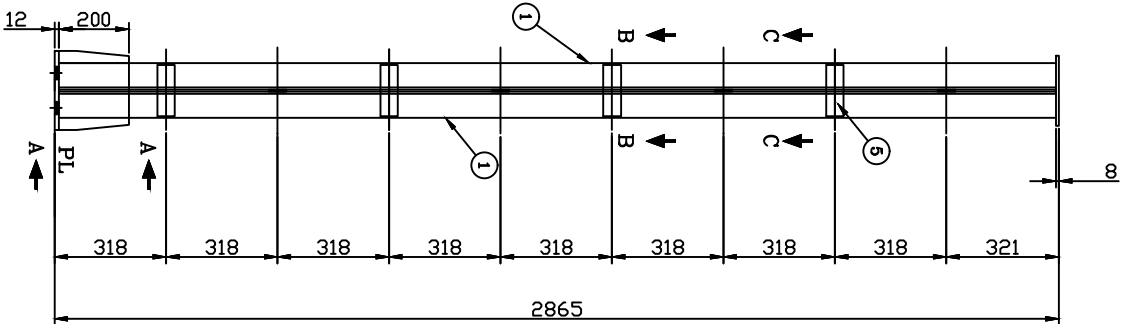
SCALE DRG. NO. NTS

RDSS / RDSS / 7/33/11kV PSS/06

SHT. NO. 1 OF 1

REV. NO. 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



BILL OF MATERIAL					
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. kg
1	L 65x65x6	2	2845	-	5.80
2	PL 12THK	1	225	225	94.2
3	PL 6THK	1	200	225	4.769
4	PL 6THK	2	100	200	2.120
5	PL 6THK	8	50	146	47.10
6	PL 8THK	1	200	200	2.751
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 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/54sqm FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL 145x45x5 WILL HAVE 23mm BACK MARK.
5. ALL 150x50x6 WILL HAVE 28mm BACK MARK.
6. 35mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL EJECTION MARK SHALL BE PREFIXED WITH "3LA"
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 OR IS: 1363 & 1367.
11. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

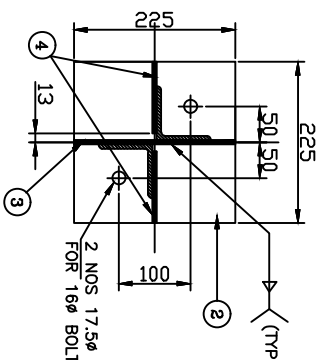
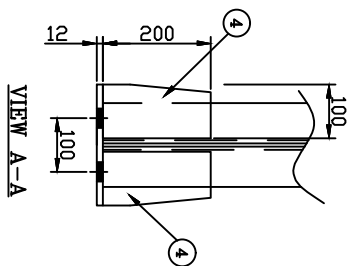
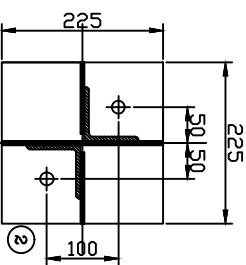
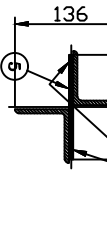
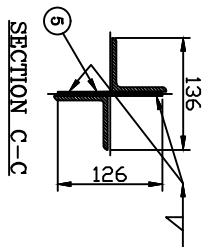
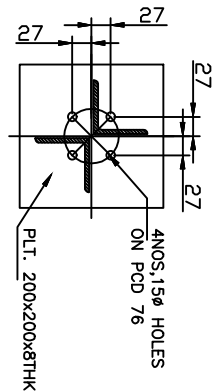
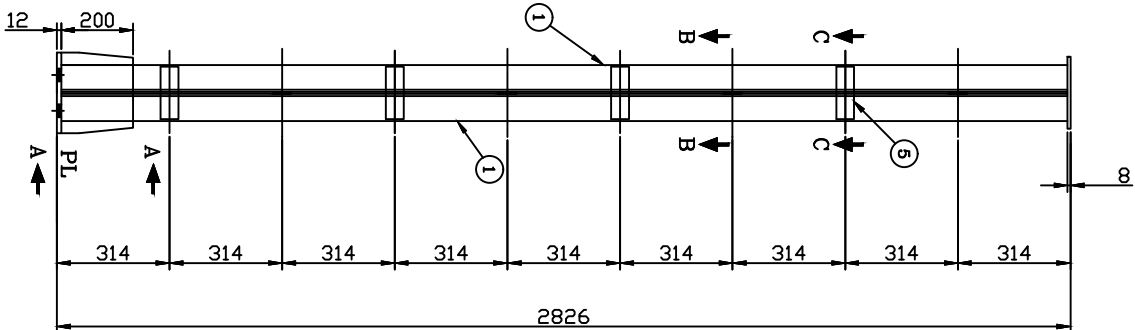
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

STRUCTURAL DETAILS OF 33KV LA

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	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
1	L 65x55x6	2	2806	-	5.80
2	PL 12THK	1	225	225	94.2
3	PL 6THK	1	200	225	4.769
4	PL 6THK	2	100	200	47.10
5	PL 6THK	8	50	146	47.10
6	PL 8THK	1	200	200	62.80
TOTAL WEIGHT OF STRUCTURE					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 FOR 16mm BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANISED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/54m FOR ALL STRUCTURAL STEEL MEMBERS.
4. ALL L45x45 WILL HAVE 23mm BACK MARK.
5. ALL L50x50 WILL HAVE 28mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREFIXED 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

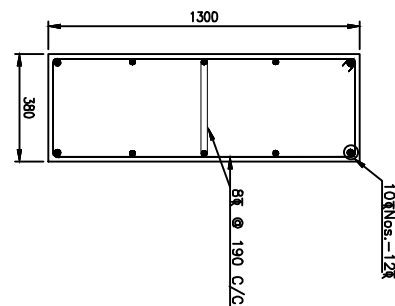
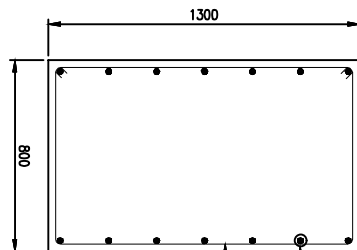
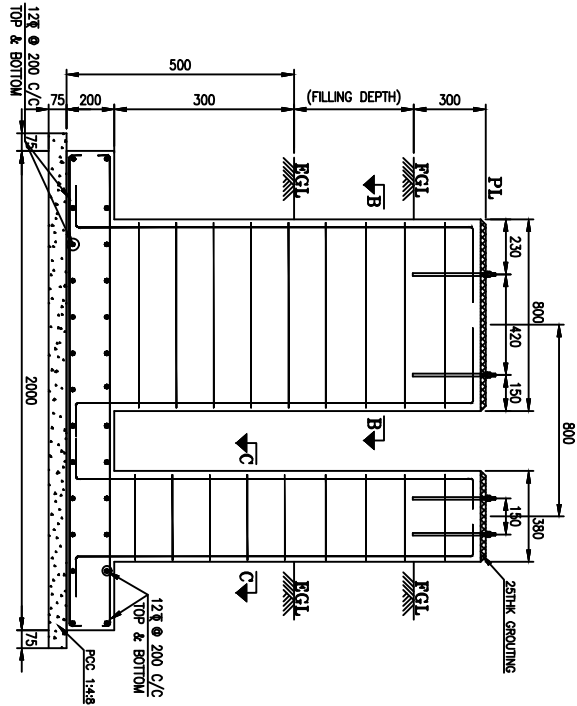


Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
STRUCTURAL DETAILS OF 33kV PI

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/ RDSS /33/11kV PSS/08	1 OF 1	0



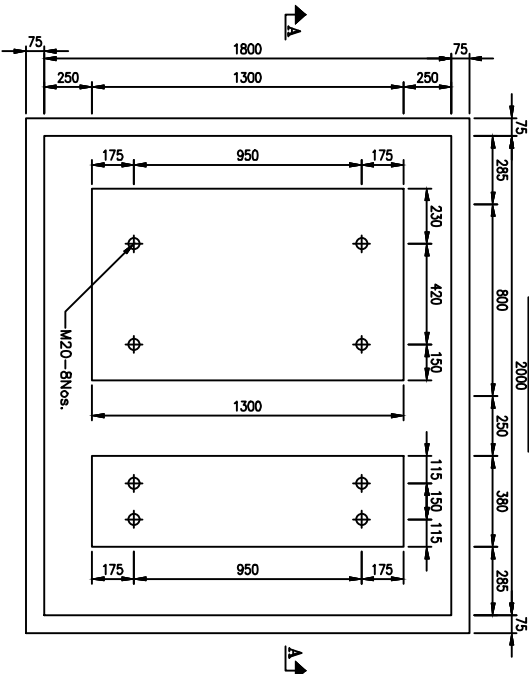
SECTION A-A

SECTION B-B

SECTION C-C

NOTE:-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL CONCRETE GRADE M20 UNLESS OTHERWISE SPECIFIED
3. REINFORCEMENT STEEL SHALL BE HYSD BAR UNLESS OTHERWISE SPECIFIED
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: (4)G71570-X6205-F003, SIEMENS LTD. MAKE.



FOUNDATION PLAN

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

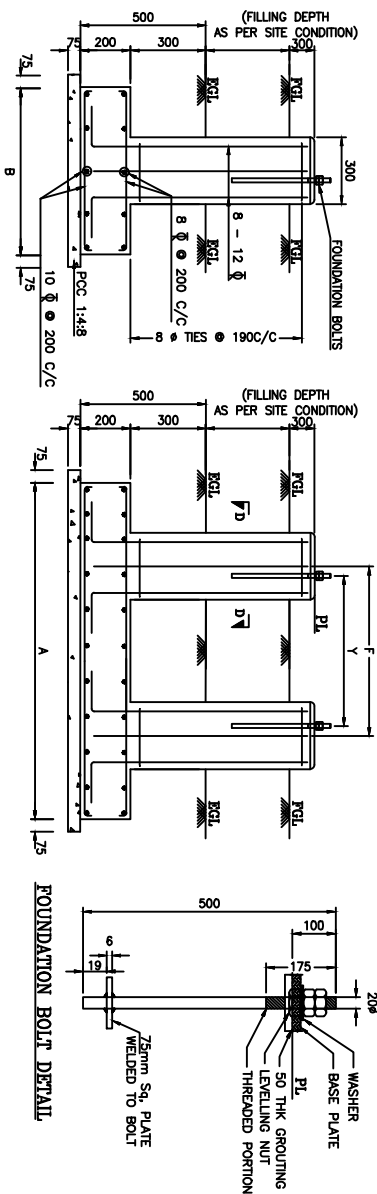
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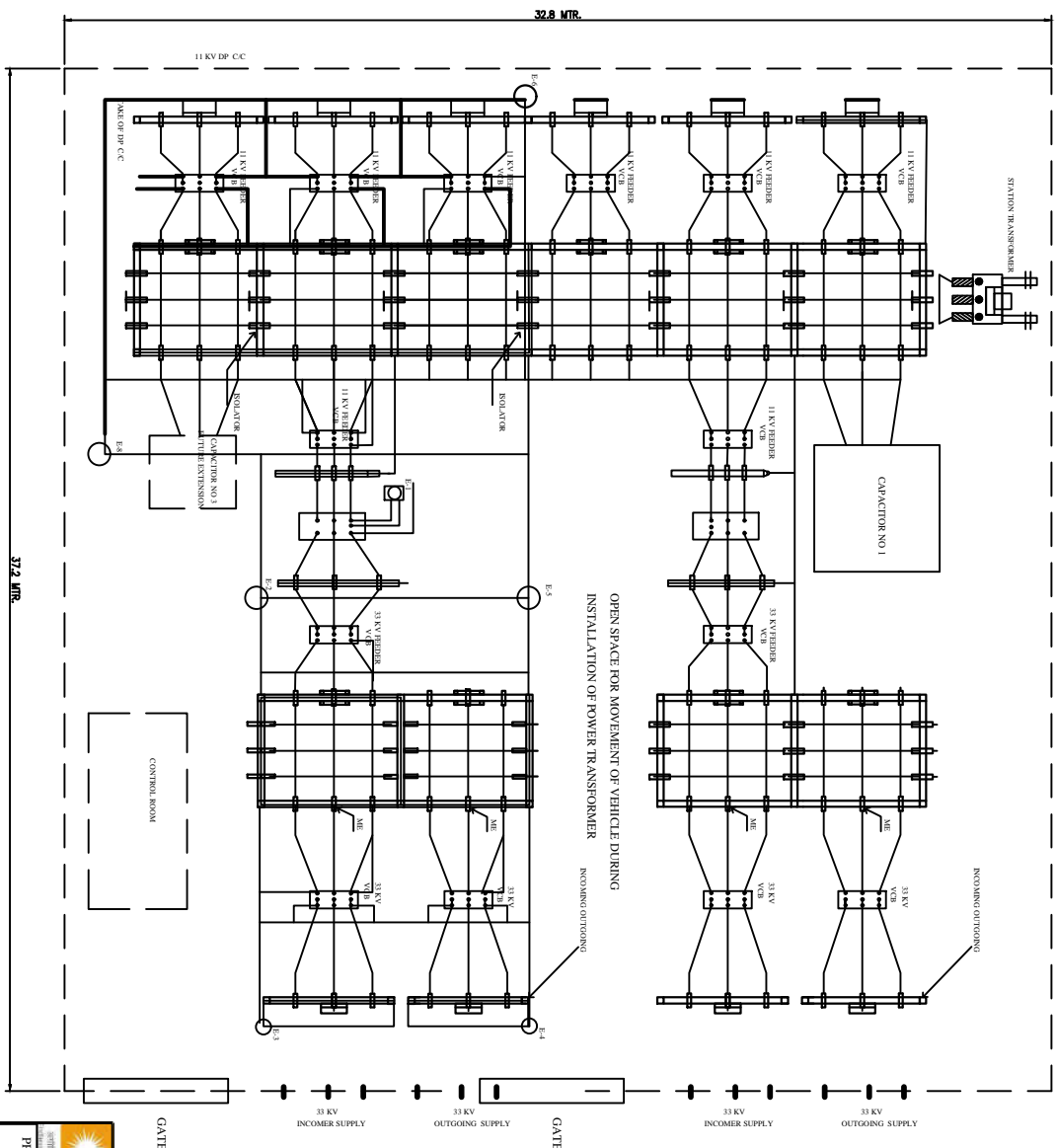
Revamped Distribution Sector Scheme (RDSS)

TITLE FOUNDATION DETAILS OF 33KV VCB&CT

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11kv PSS/09	1 OF 1	0





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

FOR TENDER PURPOSE ONLY



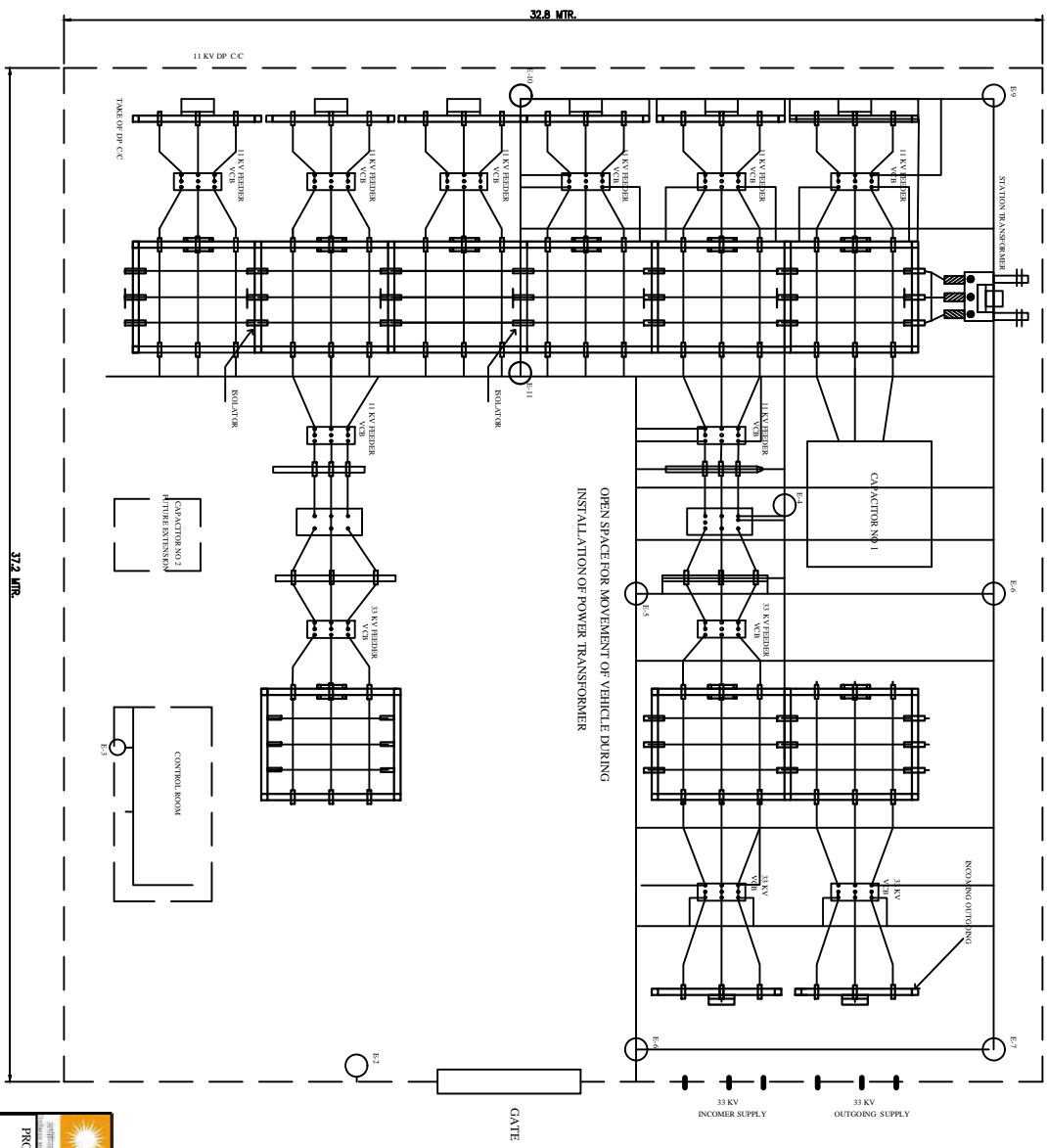
Rural Electrification Corporation Ltd.

PROJECT:
 Revamped Distribution Sector Scheme (RDSS)

TITLE:
 LAYOUT OF EARTHING IN ADD.33/11 kV S/S FOR 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/11A	1 OF 1	0



SUMMARY
 E-1, E-2 SINGLE PIPE EARTH PIT
 FOR FANCING & 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



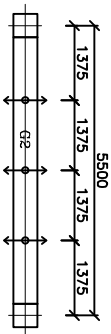
Rural Electrification Corporation Ltd.

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

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

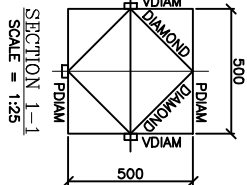


NOTES:

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

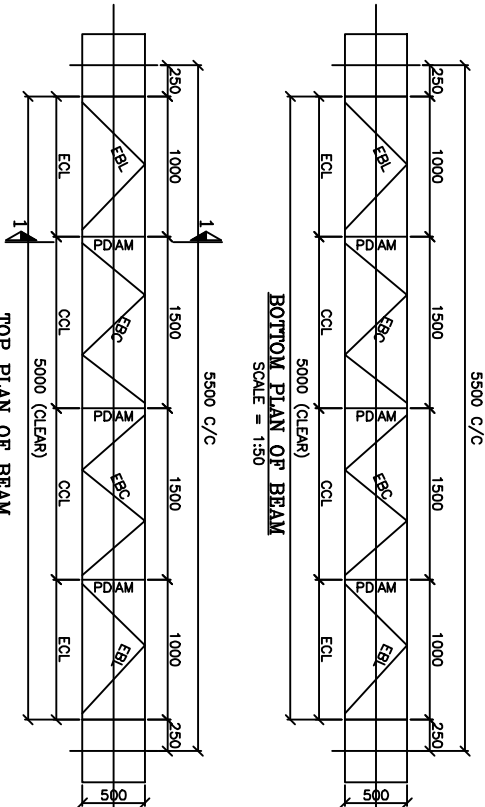
GENERAL NOTES:

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 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 ATLEAST 0.610gms/sq. FOR BOLTS & FOR STRUCTURAL MEMBERS.



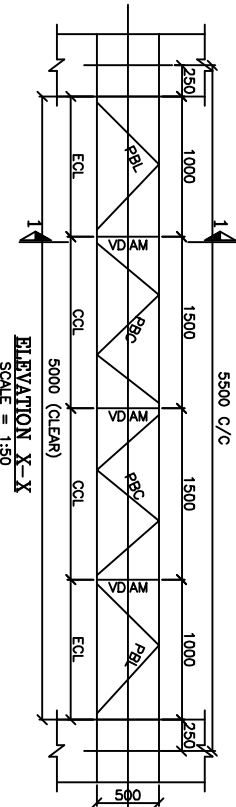
BOTTOM PLAN OF BEAM

SCALE = 1:50



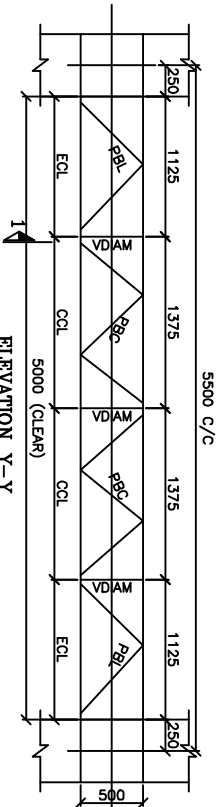
TOP PLAN OF BEAM

SCALE = 1:50



ELEVATION X-X

SCALE = 1:50



ELEVATION Y-Y

SCALE = 1:100

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

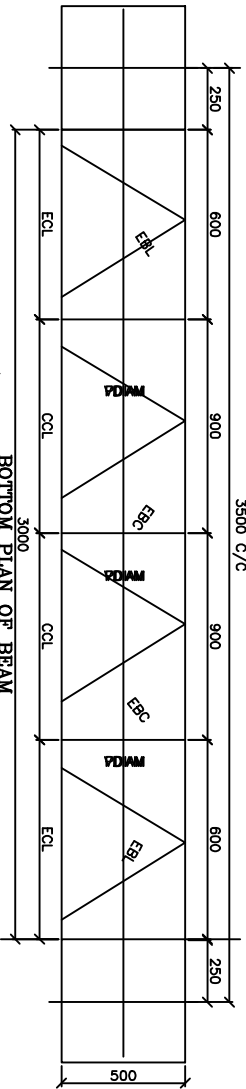
TITLE

33kV BEAM STRUCTURE

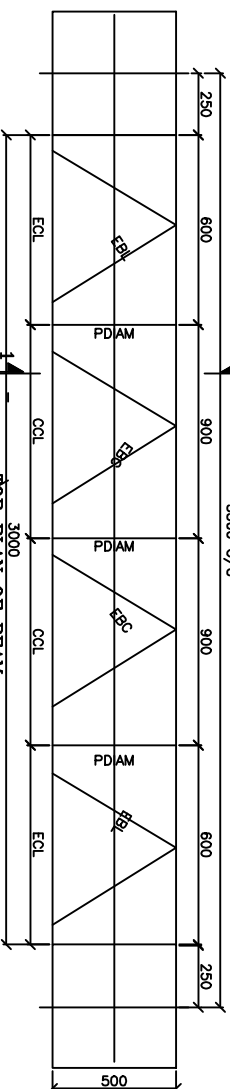
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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

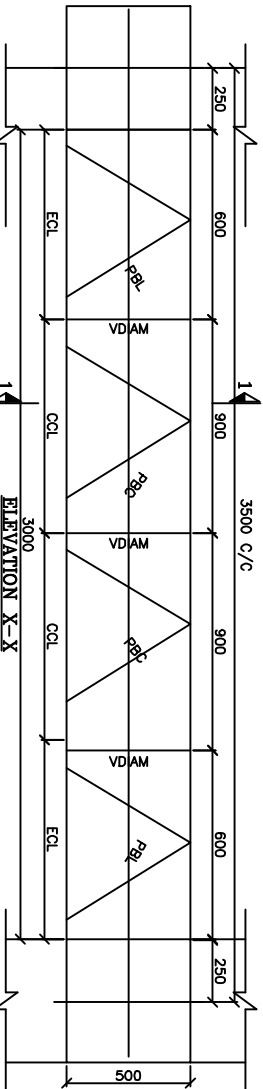
BEAM MKD	ANGLE SIZE	FCL	CCL	EBL	ERC	VDIAM	PBL	PBC	PDIAM	DIAMOND
G2	ANGLE SIZE	L45X50X6	L50X50X6	L45X45X5	L45X45X5	21.45X45X5 B/B	L45X45X5	L45X45X5	L50X50X6	L45X45X5
(33KV)	NOS OF BOLTS	2DS-6 TH PLT	2DS-6 TH PLT	02	02	02	02	02	02	02



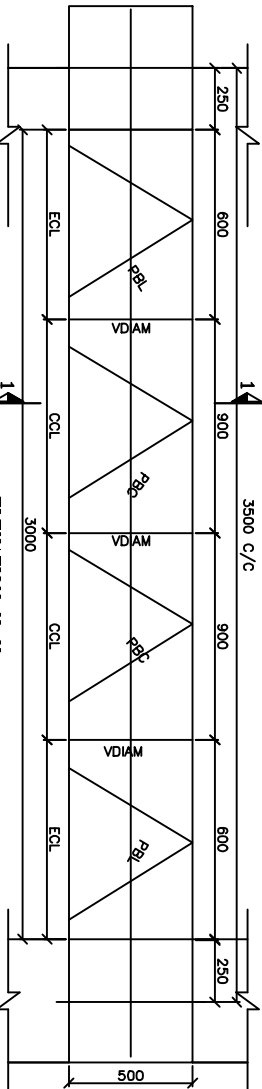
BOTTOM PLAN OF BEAM



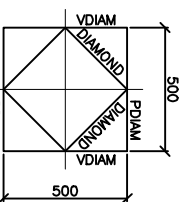
TOP PLAN OF BEAM



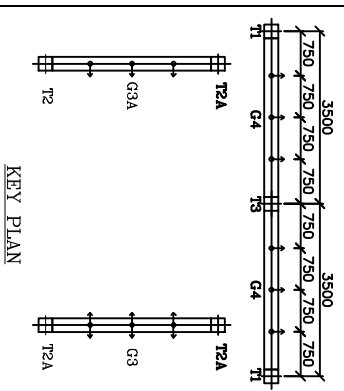
ELEVATION X-X



ELEVATION Y-Y



SECTION 1-1
SCALE = 1:25



KEY PLAN

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

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MM U.N.O.
 2. ALL UN-NOTED MEMBER ARE ISA L45X45X5
 3. ALL ANGLE SECTIONS USED ARE EQUAL ANGLES.
 4. ALL DIMENSIONS ARE CENTER LINE DIMENSIONS 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 0.610g/m² FOR BOLTS & FOR STRUCTURAL MEMBERS.

FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

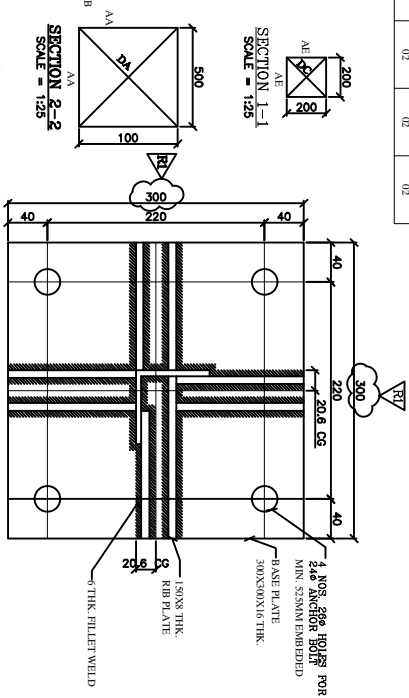
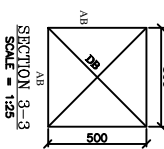
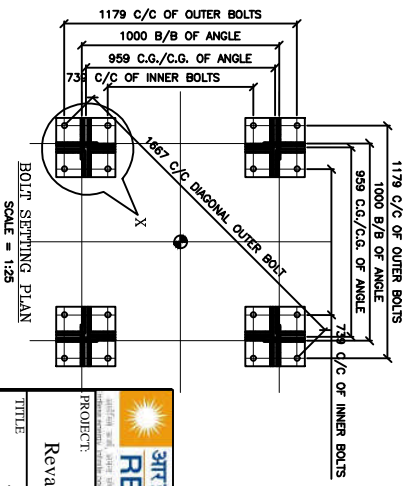
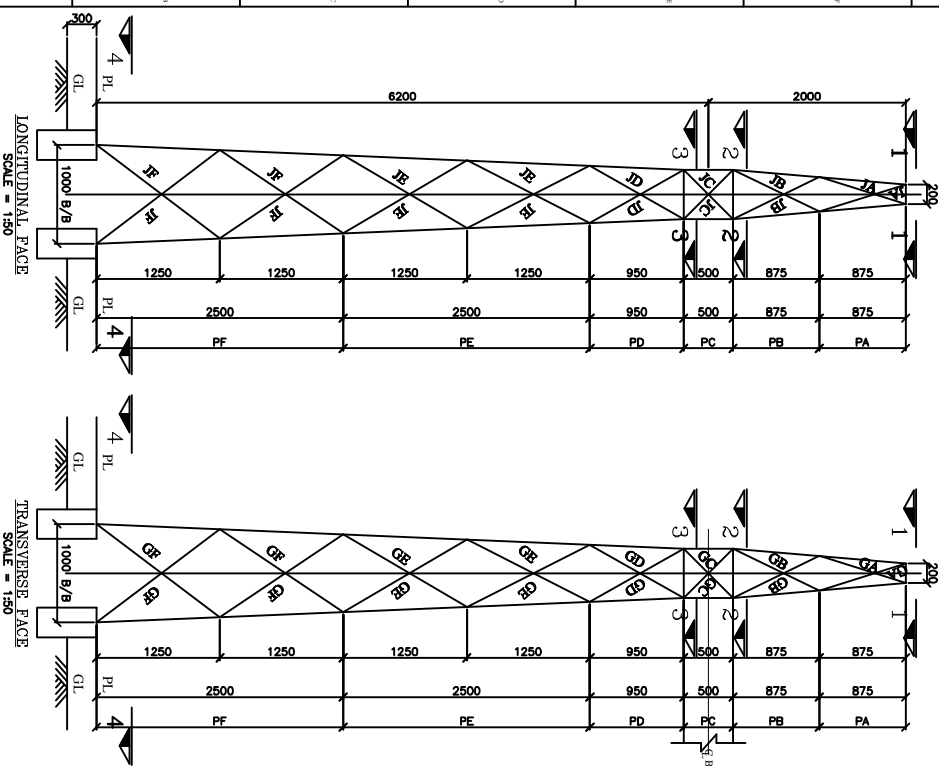
TITLE: 11KV BEAM STRUCTURE

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

TOWER & NOS OF BOLTS	ANGLE SIZE	PA	PB	PC	PD	PE	PF	GA	GB	GC	GD	GE	GF
T1	ANGLE SIZE	L45X45X3	L50X50X6	L65X65X6	L65X65X6	L65X65X6	L75X75X6	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L45X45X3
NOS OF BOLTS	02	02	02	30S-6 TH. PLT	30S-6 TH. PLT	30S-6 TH. PLT	30S-6 TH. PLT	02	02	02	02	02	02

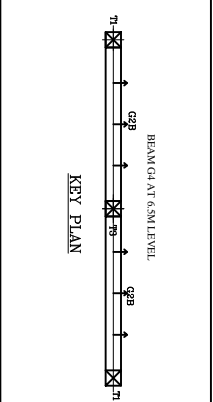
TOWER & NOS OF BOLTS	ANGLE SIZE	JA	JB	JC	JD	JE	JF	AA	AB	AE	DA	DB	DC
T1	ANGLE SIZE	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L65X65X6	L45X45X3	L45X45X3	L45X45X3	L45X45X3	L45X45X3
NOS OF BOLTS	02	02	02	02	02	02	02	02	02	02	02	02	02



LEGEND:
COLLUM MARKED T1 IS A CORNER TOWER WITH PEAK SUPPORTING ONE BEAM OF SPAN 3.5M (C/C) CONNECTED AT 6.5M.

HIGHLIGHT:
SPAN OF BEAMS 3.5M (C/C)
HEIGHT OF BEAMS 6.5M
HEIGHT OF COLLUM 6.5M & 2.0M (PEAK)

GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MM U.N.O.
2. ALL UN-NOTED MEMBER ARE ISAL 1.45X45X3
3. ALL ANGLE SECTIONS USED ARE EQUAL 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 ZINC COATING SHALL BE AT LEAST 0.070KG/M² FOR BOLTS & FOR STRUCTURAL MEMBERS.
8. COMPATIBLE FOR MOUNTING STRIKE ON PEAK OF TOWER.



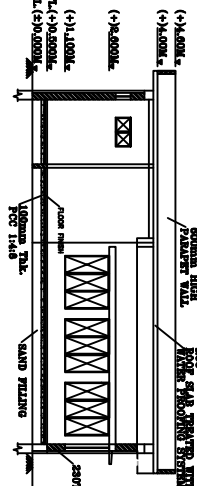
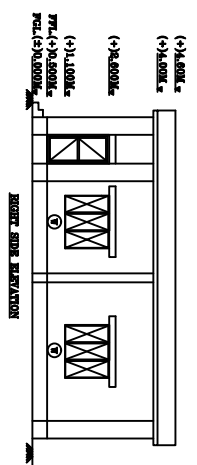
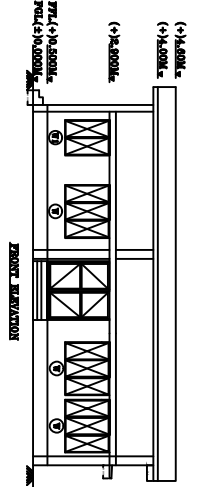
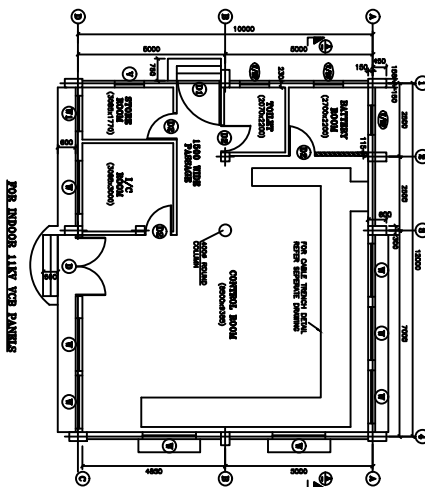
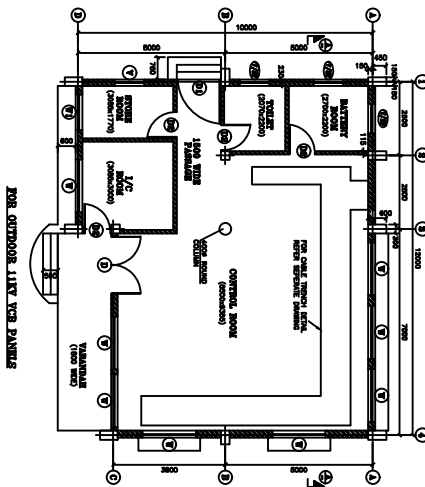
FOR TENDER PURPOSE ONLY

REC
Rural Electrification Corporation Ltd.

Project: Revamped Distribution Sector Scheme (RDSS)

33kV TOWER STRUCTURE MARKED "T1"

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/33/11kV PSS/15	1 OF 1	0



FINISHING SCHEDULE

BUILDING NAME		DESCRIPTION	
SLNO	AREA DESCRIPTION	FLOORING	SKIRTING (CMH 125)
1	CONTROL ROOM	PRECAST TERRAZZO TILES (DSR'02/ITEM No.11.29 A.2 & 11.31.2)	
2	BATTERY ROOM	CERAMIC GLAZED TILES (DSR'02-11.74)	
3	INCHARGE ROOM	ACID & ALKALI RESISTANT TILES (DSR'02-11.36 C.1 & 11.36 C. 1.1)	
4	STORE ROOM	TERRAZZO TILES (DSR'02-11.29 A.2 & 11.31.20)	
5	TOILET	REMARKS	
		PRECAST TERRAZZO TILES (DSR'02/ITEM No.11.29 A.2 & 11.31.2)	
		TERRAZZO TILES (DSR'02-11.29 A.2 & 11.31.20)	
		REMARKS	
		ACID RESISTANT TILES 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)	
		REMARKS	
		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)	
		REMARKS	
		CEMENT PLASTER 6mm thk. CM1:4	
		WHITE WASH (DSR'02-13.70.1)	
		ACID RESISTANT PAINT(DSR'02-13.96.1)	
		REMARKS	
		CEMENT PLASTER 18mm Thk. WITH TWO COATS, UNDER LAYER 12mm Thk. CEMENT PLASTER 1:5 & FINISHED WITH TOP LAYER 6mm Thk. CEMENT PLASTER 1:6 (DSR 13.19) WITH WPC.	

SL NO.	ITEM	QTY	UNIT	REMARKS
1.	1000 x 1000	1	Sq. Mtr	
2.	1000 x 1000	1	Sq. Mtr	
3.	1000 x 1000	1	Sq. Mtr	
4.	1000 x 1000	1	Sq. Mtr	

SL NO.	ITEM	QTY	UNIT	REMARKS
1.	1000 x 1000	1	Sq. Mtr	
2.	1000 x 1000	1	Sq. Mtr	
3.	1000 x 1000	1	Sq. Mtr	
4.	1000 x 1000	1	Sq. Mtr	

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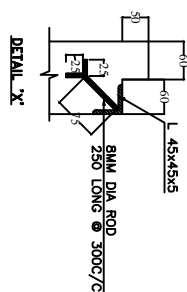
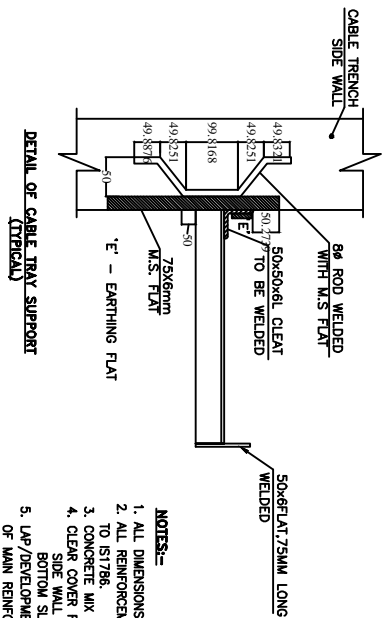
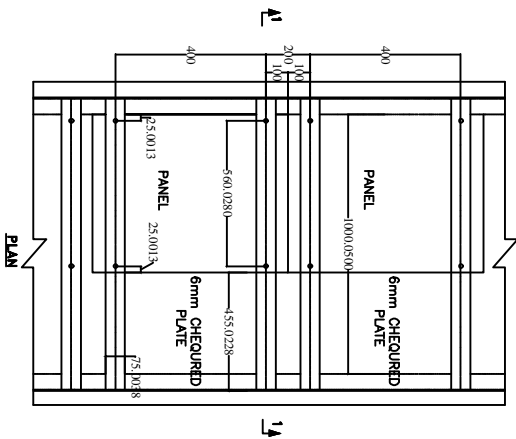


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: G.A. OF CONTROL BUILDING

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A3	NTS	REC/RDSS/33/11kV PSS/18	1 OF 1	0	



1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL REINFORCEMENT SHALL BE OF GRADE F4415 CONFORMING TO IS1786.
3. CONCRETE MIX SHALL BE M20
4. CLEAR COVER FOR REINFORCEMENT SIDE WALL = 25mm
5. LAP/DEVELOPMENT LENGTH SHALL BE 40 TIMES THE DIA. OF MAIN REINFORCEMENT.

FOR TENDER PURPOSE ONLY



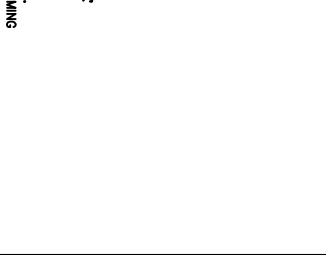
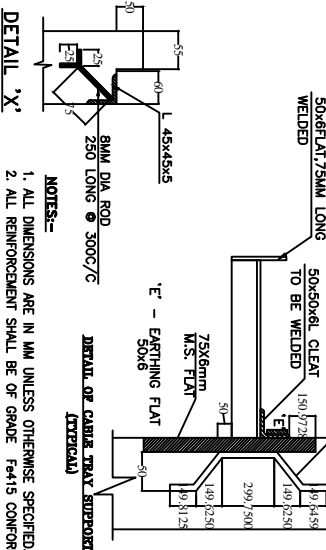
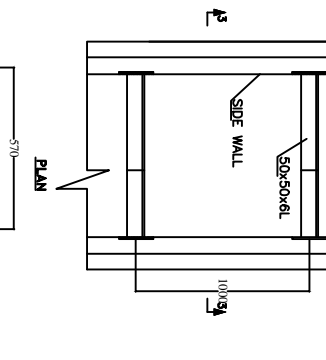
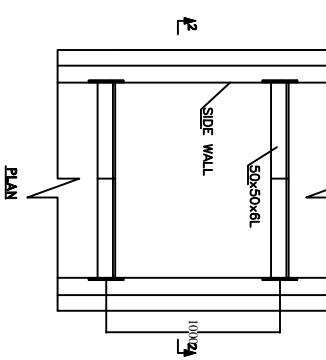
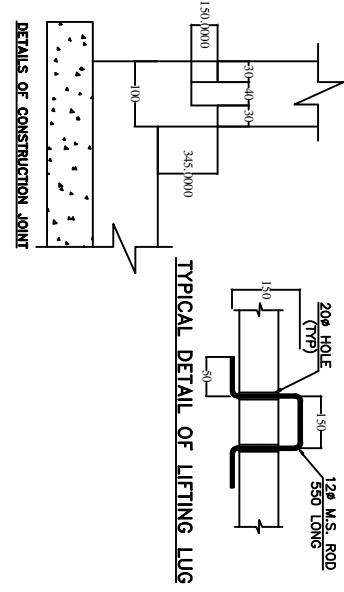
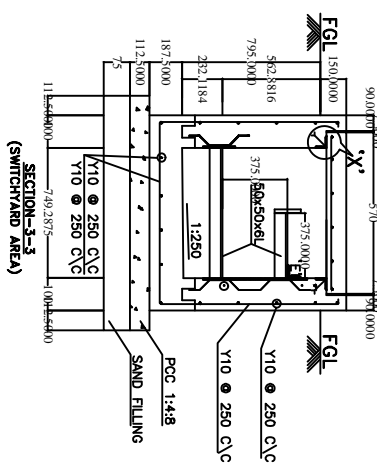
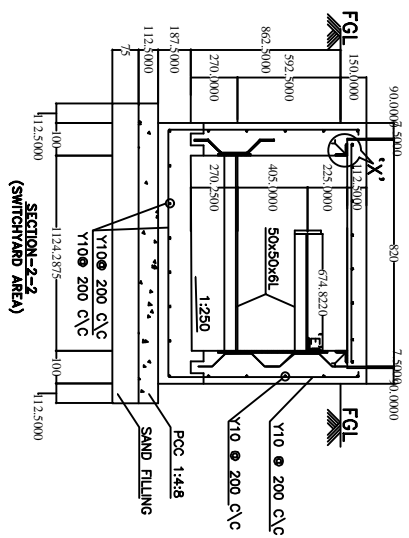
Rural Electrification Corporation Ltd.

PROJECT:

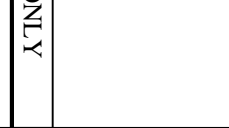
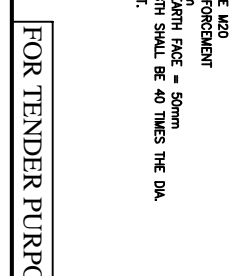
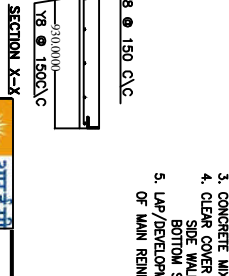
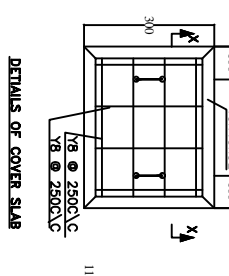
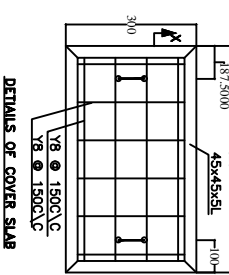
Revamped Distribution Sector Scheme (RDSS)

TITLE
DETAILS OF CABLE TRENCHES
(INSIDE CONTROL ROOM)

REV. NO.	CHECKED	APPROVED	DATE	PROJECT	DRG. NO.	SHT. NO.	REV. NO.
R0	PREPARED			A3	NTS	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.



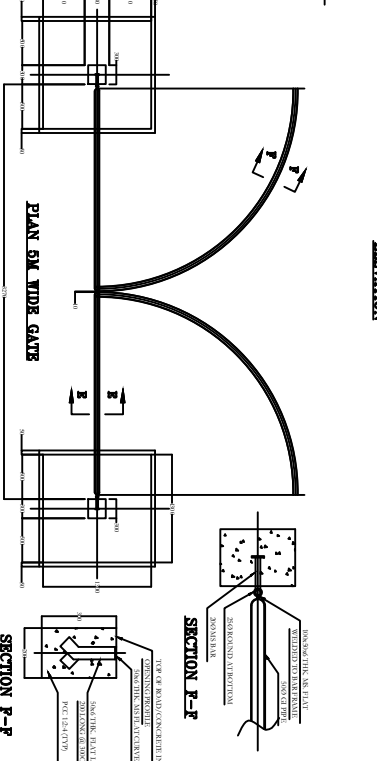
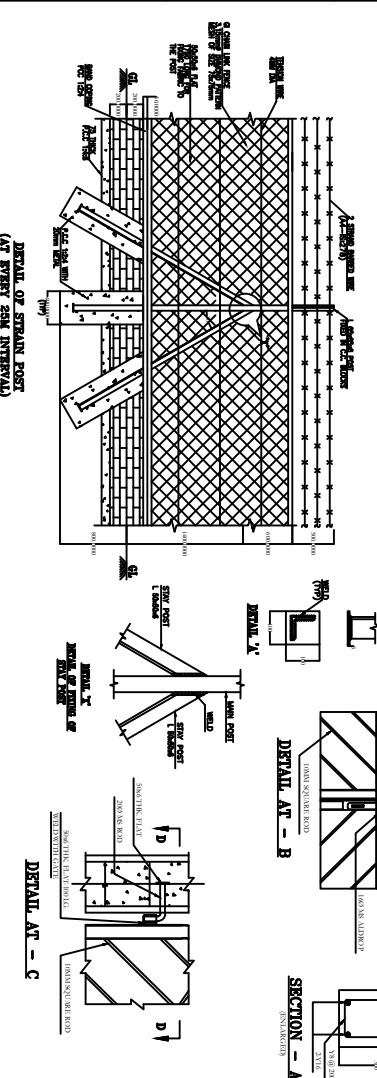
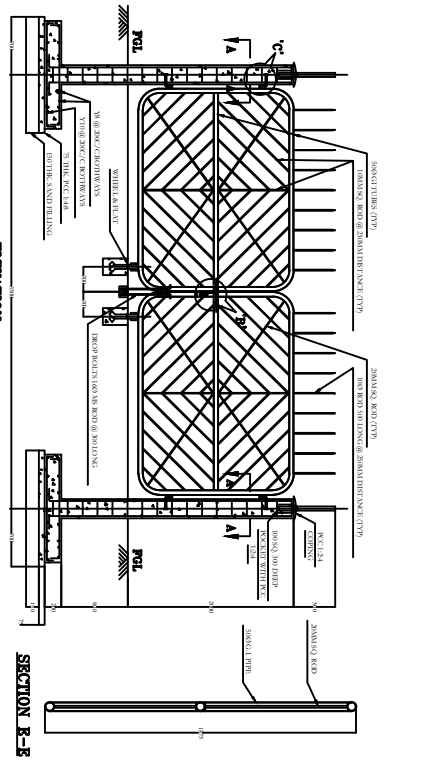
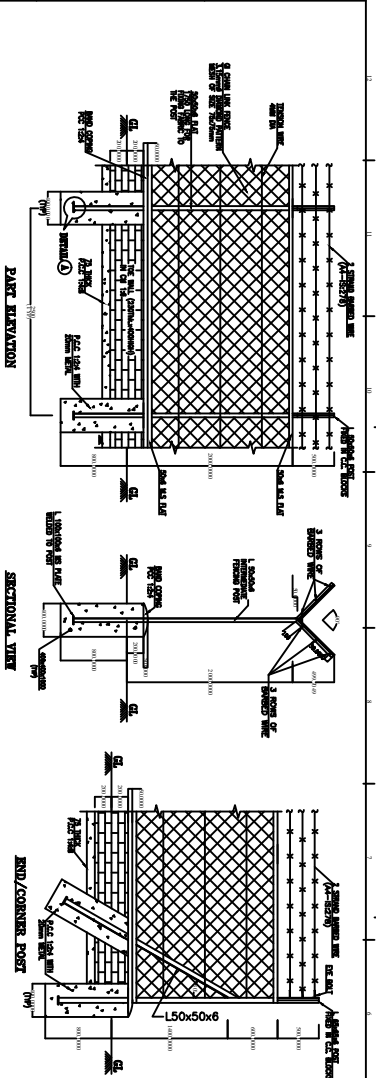
Rural Electrification Corporation Ltd.

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

FOR TENDER PURPOSE ONLY



NOTES:-

1. ALL STRUCTURAL STEEL SHALL BE CONFORM TO IS2062 AND SHALL BE PAINTED WITH GALVANIZED STEEL PAINT AND TWO COATS OF SYNTHETIC ENAMEL PAINT.
2. CHAIN LINK MESH SHALL BE AS PER IS2723, MESH SIZE 75mm AND NOMINAL WIRE SIZE SHALL BE 3.15mm DIAMETER AND SHALL BE GALVANIZED.
3. BARBED WIRE SHALL BE DESIGNATED AS A-4 IS278 AND SHALL BE GALVANIZED.
4. FABRIC SHALL BE SECURED TO TENSION WIRES (THREE) SPACED AT 500MM WITH THE GALVANIZED STEEL WIRE AND TENSION WIRES SHALL BE SINGLE TWISTED WIRE WITH LESS THAN TWO TWISTS.
5. L 50x50x6 SHALL BE USED FOR INTERMEDIATE AND STAY POSTS. L 65x65x6 SHALL BE USED FOR STRAINING POST.
6. INTERMEDIATE POSTS SHALL BE SPACED 2.5m APART MEASURED PARALLEL TO GROUND SURFACE. STRAINING POSTS SHALL BE INSTALLED AT EQUAL INTERVALS NOT EXCEEDING 25m.
7. BOTTOM AND TOP OF THE FENCE FABRIC SHALL BE FIXED WITH 50x6 M.S FLAT. FENCE FABRIC SHALL BE LAID OUT WITH BARBED EDGE ON TOP, STRETCHED TIGHTLY AND SHALL BE FASTENED TO INTERMEDIATE POST, GATE AND STRAINING POST WITH 50x6 M.S FLAT ALL THROUGH ITS LENGTH.
8. ALL EXPOSED SURFACE OF BRICK TCE WALL SHALL BE PROVIDED WITH 12 TH. 1:6 CM PLASTER AND COATED WITH TWO COATS OF COLOR WASH WITH A BASE COAT OF WHITE WASH WITH LIME.
9. ALL WELDS ARE 4mm THK. CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
10. ALL CORNER POST AND EVERY TENTH POST WILL HAVE TWO STAY POST AND END POST SHALL HAVE ONE TRANSVERSE STAY POST.
11. THE GATE FRAME SHALL BE MADE OF MEDIUM DUTY M.S. PIPE CONFORMING TO IS 1161 WITH WELDED JOINTS.
12. THE GATE FRAMES SHALL BE PAINTED WITH ONE COAT OF STEEL PRIMER AND TWO COAT OF SYNTHETIC ENAMEL PAINT.
13. ALL WELDED JOINTS SHALL BE CONFORMING TO IS813.

FOR TENDER PURPOSE ONLY

REC **अनंत राठी**

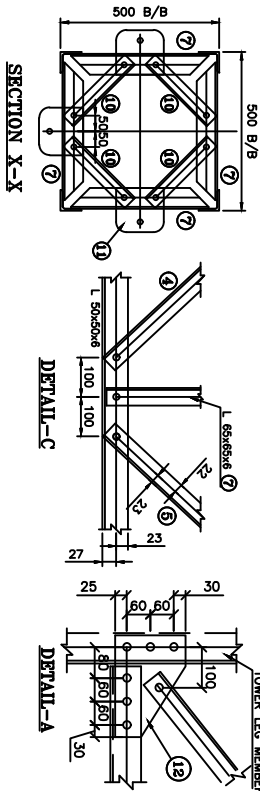
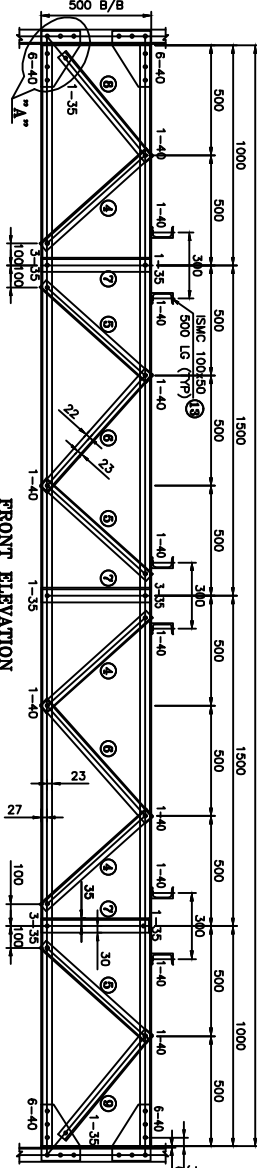
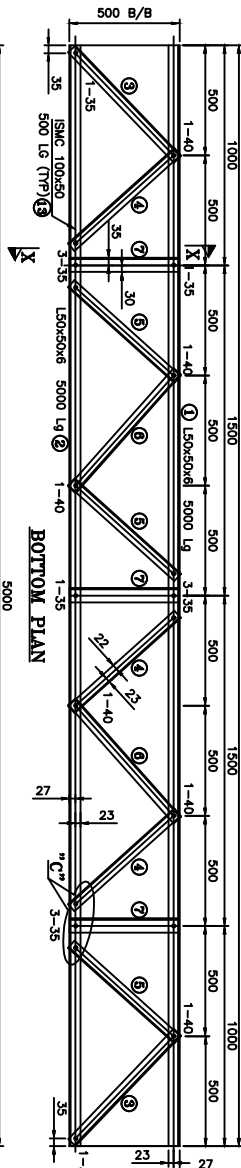
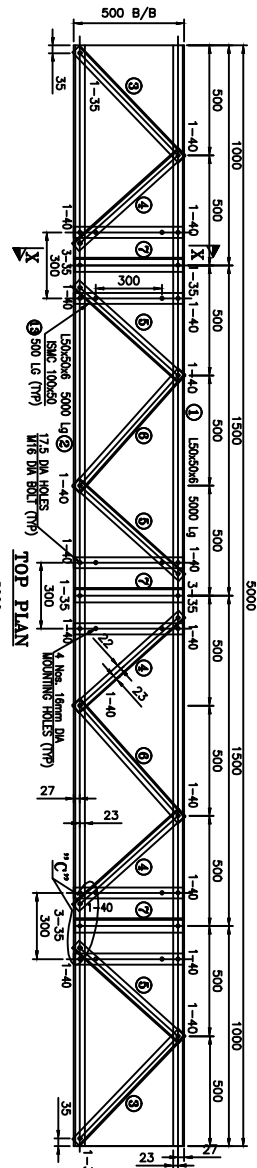
Rural Electrification Corporation Ltd.

Project: Revamped Distribution Sector Scheme (RDSS)

Title: DETAIL OF FENCING FOR SWITCHYARD WITH GATE ARRANGEMENT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/33/11kV PSS/20B	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



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

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

MARK NO:13 REQUIRED ONLY FOR = 2 TON

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16# ϕ = 17.5# HOLES
 3. ALL ERECTION MARKS ARE TO BE PREPARED WITH - "G2".
 4. 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 5. ALL CONNECTION BOLTS SHALL BE OF 16mm ϕ CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1367 (PART-6).
 6. MILD STEEL SHALL CONFORM TO GRADE A36(410) OF IS:2062
 7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED DIMENSIONS ARE 16x45x5 WITH 23 BM
 9. UNNOTED DIMENSIONS ARE 6mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063
 11. ALL NUTS SHALL CONFORM TO IS: 12427
 12. GALVANISING SHALL CONFORM TO IS: 2629-1985 & IS:4779-1996
 13. BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY
 14. FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

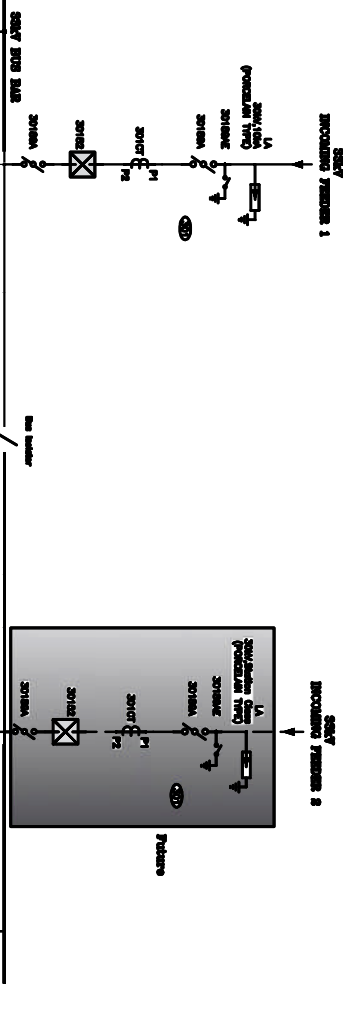
FOR TENDER PURPOSE ONLY

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

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
DETAILS OF GIRDER TYPE "G2"

R0										
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/ RDSS /33/11KV PSS/21	1 OF 1	0



BILL OF QUANTITY - 33/11kV			
Sl. No.	ITEM DESCRIPTION	UNIT	QTY
1.	33/11kV, 15MVA TRANSFORMER	1 No.	1
2.	33kV, 15MVA, O/D VOLTAGE GRADIENT BREAKER	2 SETS	2
3.	33kV, 15MVA, O/D WITH EARTH SWITCH	1 SET	1
4.	33kV, 15MVA, O/D WITH EARTH SWITCH	2 SETS	2
5.	33/11kV POTENTIAL TRANSFORMER	6 Nos.	6
6.	33/11kV POTENTIAL TRANSFORMER	2 SETS	2
7.	33/11kV, 15MVA, 1500A, 1500A TRANSFORMER	1 No.	1

BILL OF QUANTITY - 11kV			
Sl. No.	ITEM DESCRIPTION	UNIT	QTY
1.	11kV, 15MVA INDOOR VCB & Bus Coupler	2 SETS	2
2.	11kV, 15MVA OUTDOOR VCB	4 SETS	4
3.	11kV, 15MVA, 1500A, 1500A TRANSFORMER	4 SETS	4
4.	11kV, 15MVA, 1500A, 1500A TRANSFORMER	4 SETS	4
5.	11kV/11kV POTENTIAL TRANSFORMER	16 Nos.	16
6.	11kV/11kV POTENTIAL TRANSFORMER	1 SET	1

LEGEND:-

- 11kV, 15MVA INDOOR VCB
- 11kV, 15MVA OUTDOOR VCB
- 11kV, 15MVA, 1500A, 1500A TRANSFORMER
- 11kV, 15MVA, 1500A, 1500A TRANSFORMER
- 11kV/11kV POTENTIAL TRANSFORMER
- 11kV/11kV POTENTIAL TRANSFORMER

THIS STD IS TO BE FOLLOWED. PTA/PTDS/PTDS may establish design & det. as per the requirements.

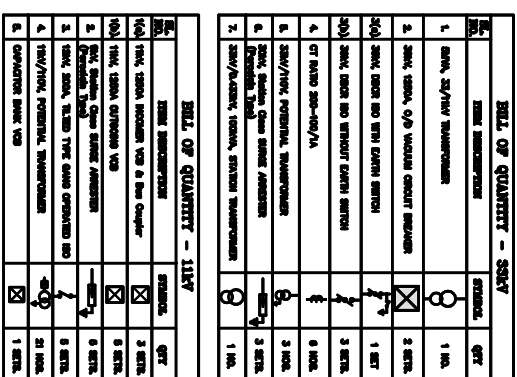
FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

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	



- 11M, 1200A OUTLINE VOLT
- OT-1 200-150/5-5A
- OT-2 200-100/5-5A
- OT-3 100-50/5-5A

FOR TENDER PURPOSE ONLY

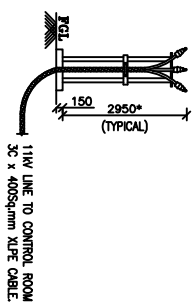


Revamped Distribution Sector Scheme (RDSS)

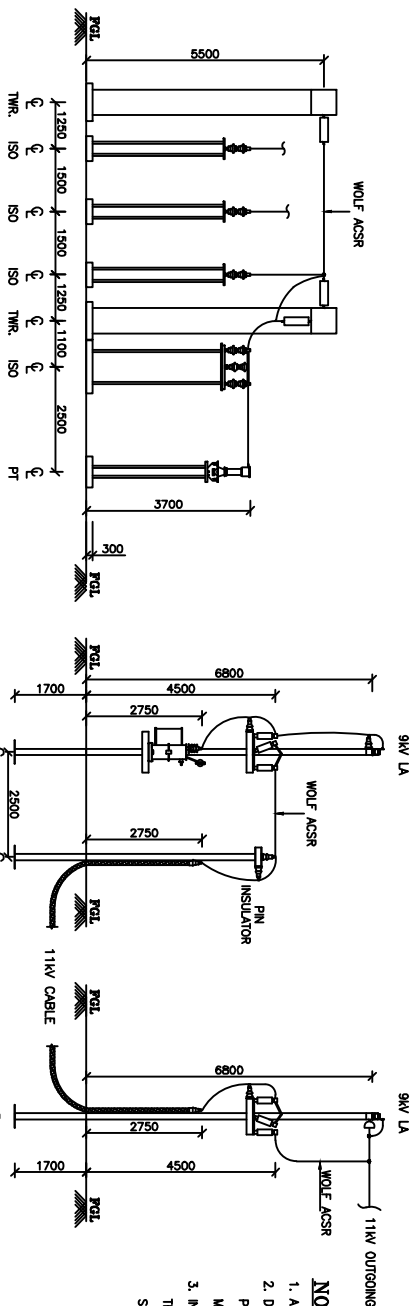
TITLE
Single Line Diagram of 1x5MVA (Type-B)
33/11KV Substation with Indoor 11KV Switchgear

					SIZE	SCALE	DWG. NO.	SHEET NO.	REV. NO.
R0					A3	NTS	REC/RDSS/33/11KV PSS/22B	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT				





SECTION B-B



SECTION E-E

1. SINGLE LINE DIAGRAM OF 33/11kV ALAGAPUR S/S DRG.NO: SP/L/NER/ALAGAPUR/SLD/001
2. GENERAL ARRANGEMENT OF 33/11kV ALAGAPUR S/S DRG.NO. SP/L/NER/ALAGAPUR/GA/002
3. LAYOUT OF ALAGAPUR 33/11kV S/S DRG.NO. SP/L/NER/ALAGAPUR/LAY/003

FOR TENDER PURPOSE ONLY

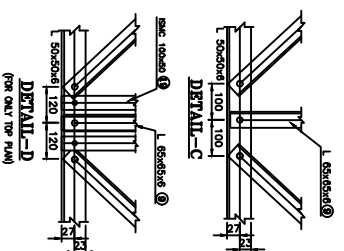


Rural Electrification Corporation Ltd.

Distribution Sector Scheme (RDSS)

TITLE
Layout Section of 33/11 KV Substation

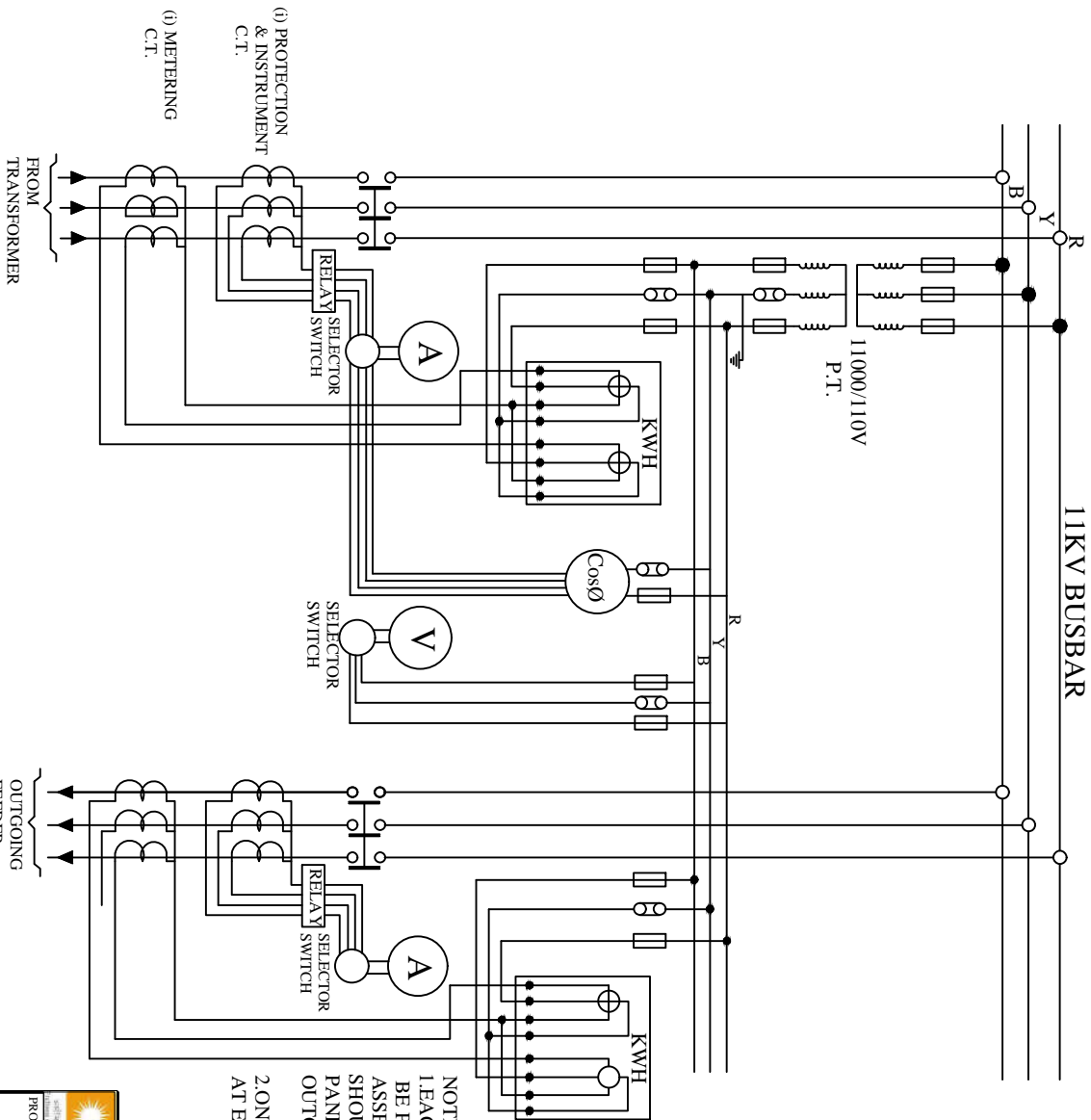
					SIZE	SCALE	DRG. NO.	SHEET NO.	REV. NO.
R0					A3	NTS	REC/RDSS/33/11kV PSS/23	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT				



SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/ RDSS /33/11kV PSS/26	1 OF 1	0

INCOMING PANEL

OUTGOING PANEL



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.

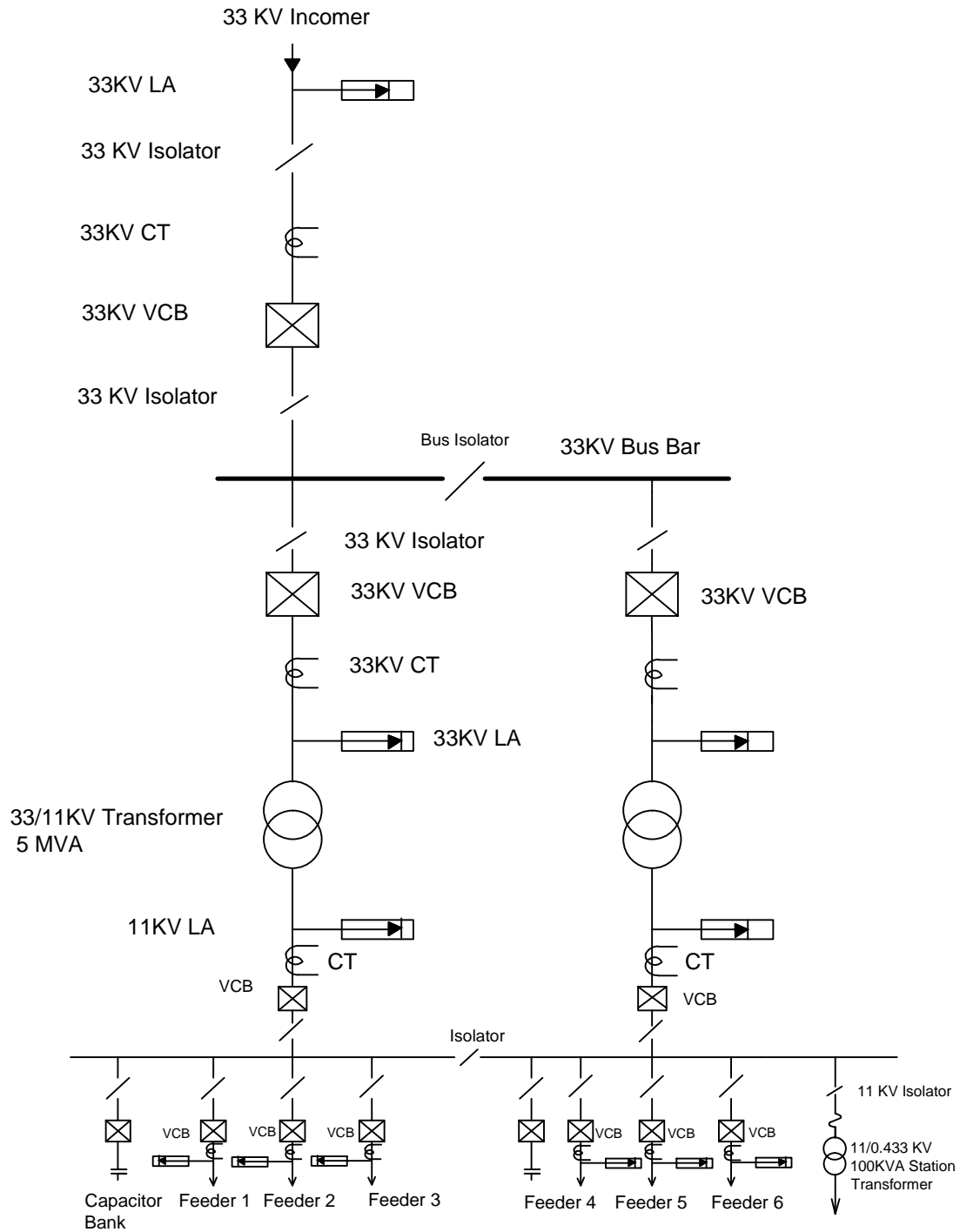
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE 33-11kV Sub-Str. Metering Arrangement.

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
A3	NTS	REC/RDSS/33/11kV PSS/27	SHT. NO. 1 OF 1	REV. NO. 0	



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

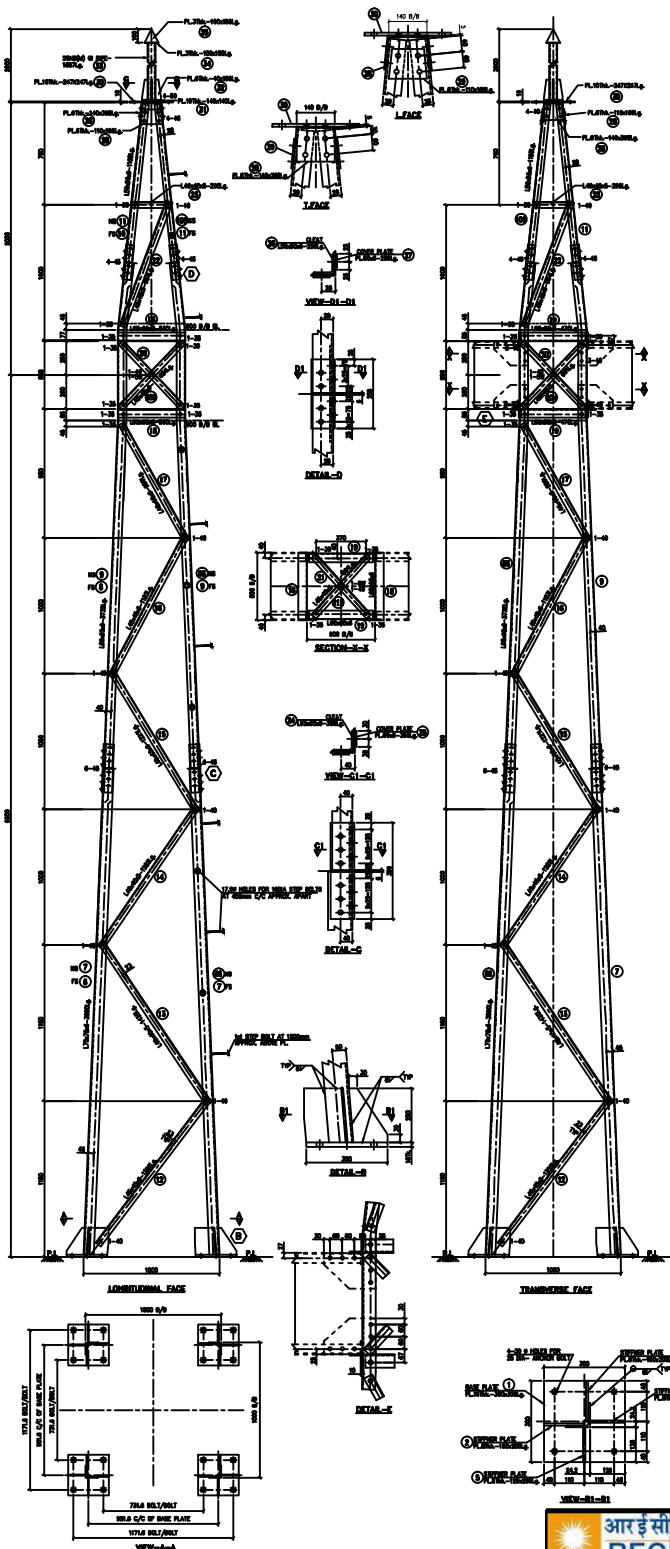
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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	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						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**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 2. BOLT SYMBOLS 16# ϕ = 17.5# HOLES
 3. ALL ERECTION MARKS ARE TO BE PROVIDED WITH "T1".
 4. 3.2mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
 5. ALL CONNECTION BOLTS SHALL BE OF 16mm ϕ CONFORMING TO IS 12427 OF PROPERTY CLASS 8.8 CONFORMING TO IS 1367 (PART-4).
 6. MILD 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 MM
 9. UNNOTED CLUSTERS ARE 6mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS 2016 & SPRING WASHER SHALL BE AS PER IS 2025.
 11. ALL NUTS SHALL CONFORM TO IS 12427
 12. GALVANISING SHALL CONFORM TO IS 2829-1985 & IS 4779-1998.
 13. BRACING ANGLES SHALL BE SUPPLIED 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 GALVANISING.

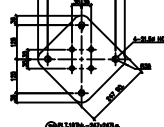


PHOTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION
ACTUAL LENGTH OF MEMBER SHOULD BE DECIDED BASED ON FULL SCALE LAYOUT AT FACTORY

FOR TENDER PURPOSE ONLY



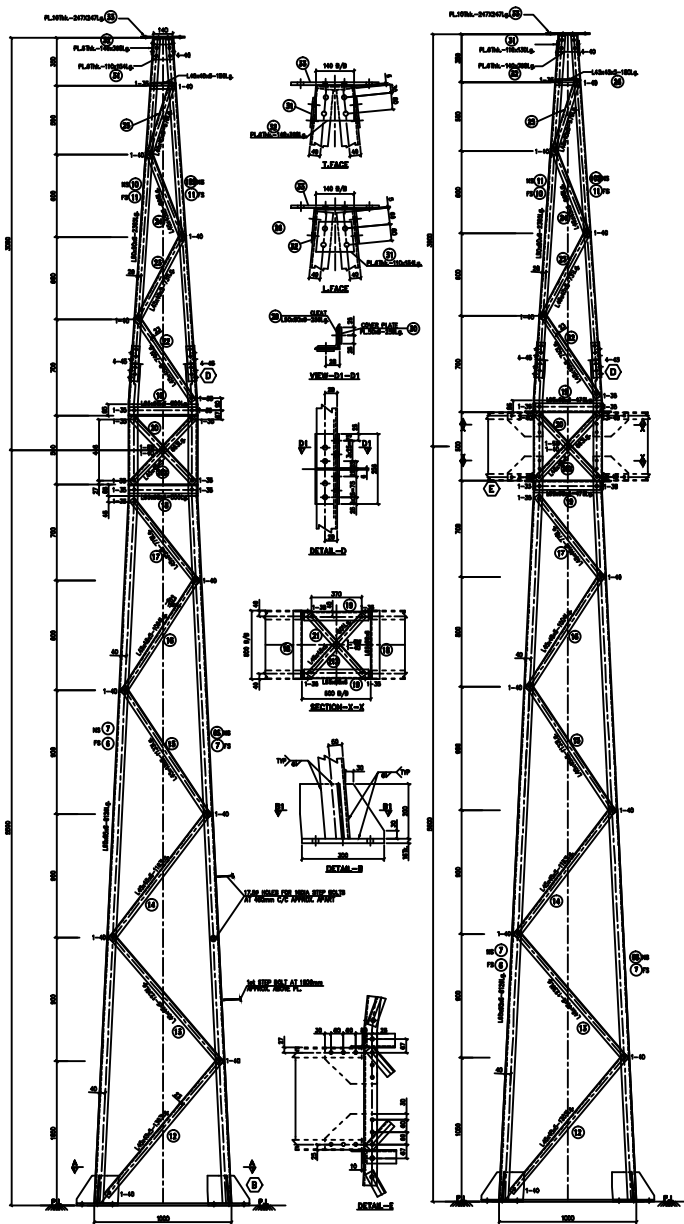
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: STRUCTURAL DETAILS OF TOWER TYPE - "T1"

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



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	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 16# - 17.5# VOLS
 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 & CONFORMING TO IS 15427 OF PROPERTY CLASS 8.8 CONFORMING TO IS 15427 (PWT-6).
 6. WILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS2062
 7. MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
 8. ALL UNNOTED MEMBERS ARE L45x45x5 WITH 25 #
 9. UNNOTED GUSSETS ARE 6mm THICK
 10. PLAIN WASHERS SHALL BE AS PER IS-2016 & SPRING WASHER SHALL BE AS PER IS-3045
 11. ALL NUTS SHALL CONFORM TO IS-15427
 12. GALVANIZING SHALL CONFORM TO IS-2223-1985 & IS-4759-1988.
 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



Rural Electrification Corporation Ltd.

PROJECT-

Revamped Distribution Sector Scheme (RDSS)

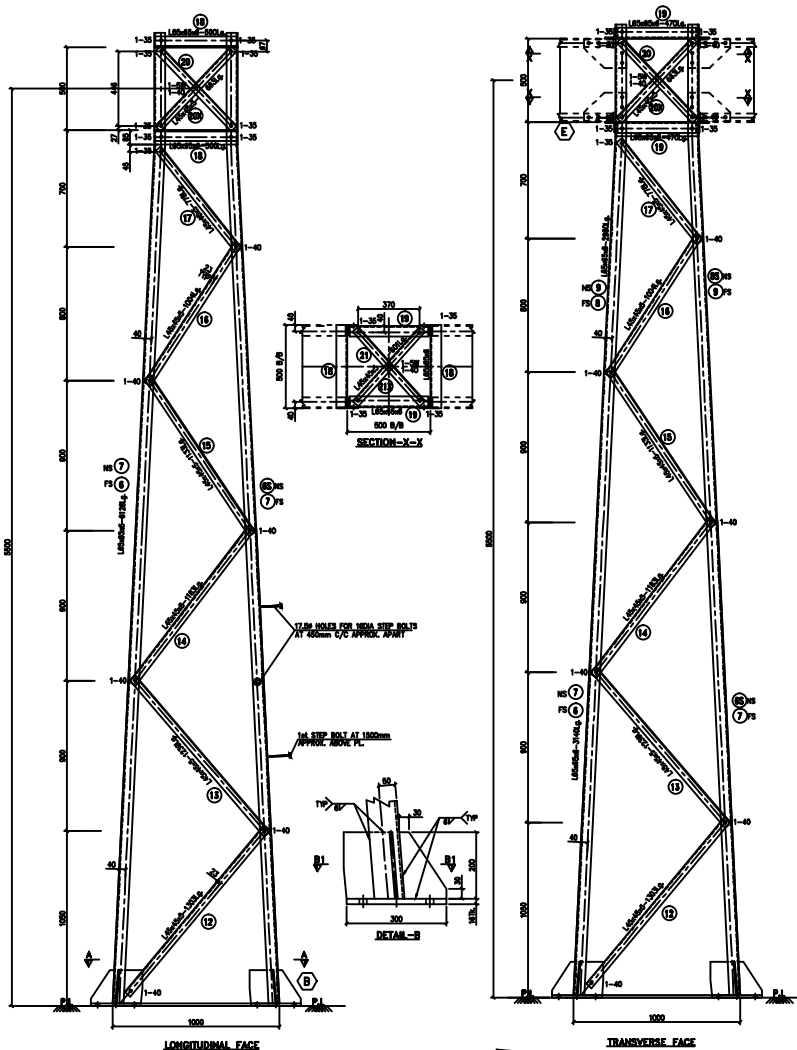
TITLE

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

R0					
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					
10s	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

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. BOLT SYMBOLS 16# \diamond = 17.5# HOLES
3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T2A".
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-6).
6. MILD 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 GUSSETERS ARE 6mm THICK
10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3083.
11. ALL NUTS SHALL CONFORM TO IS: 12427
12. GALVANIZING SHALL CONFORM TO IS: 2629-1985 & 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)

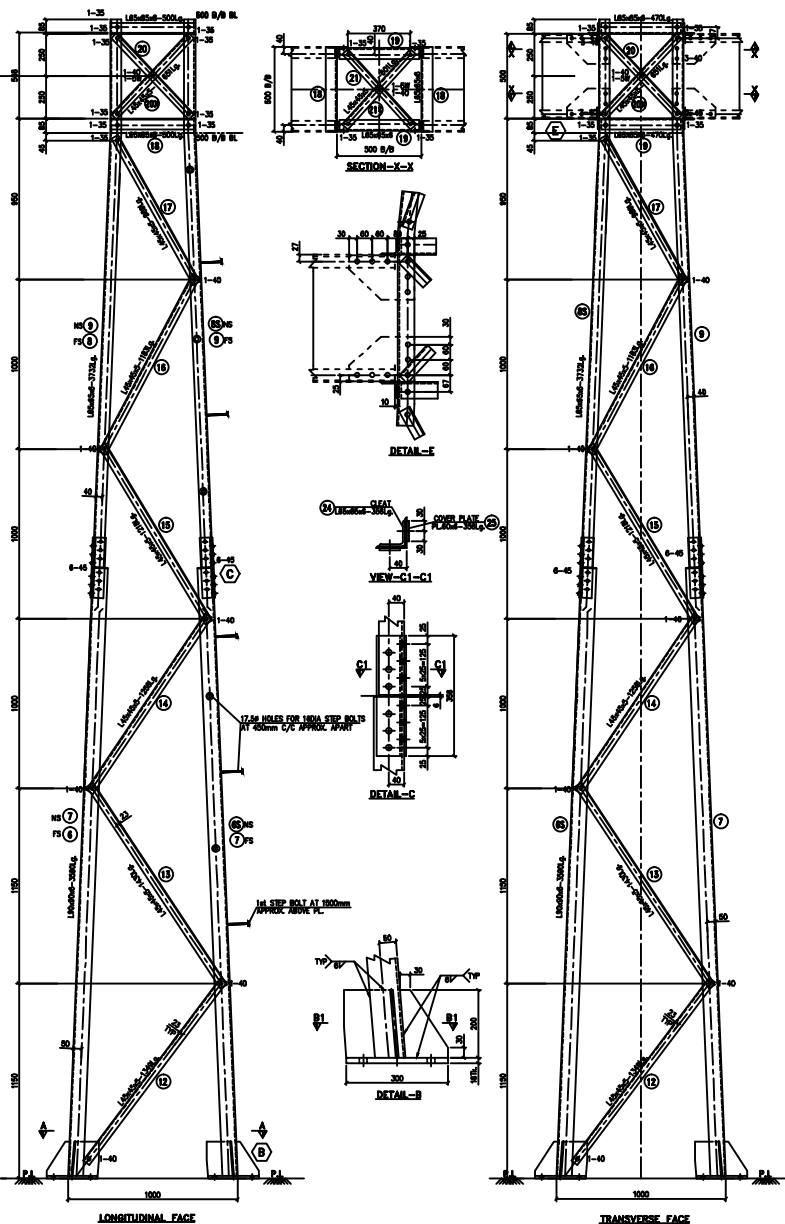
TITLE

STRUCTURAL DETAILS OF TOWER TYPE - "T2A"

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

						SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
RO						A3	NTS	REC/(RDSS /33/11kV PSS/31A	1 OF 1	0
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT					

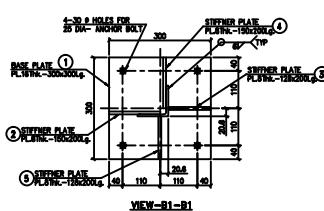
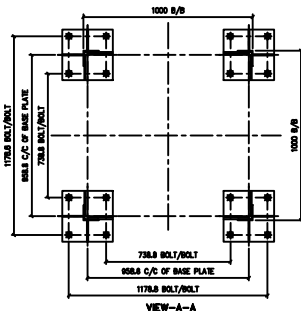


BILL OF MATERIAL						
Erection Mark	Section	Length Size (in MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	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	0.168
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			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: 2022-1985 & 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
R0					

STRAP: -

YEAR AND MONTH OF
MANUFACTURING

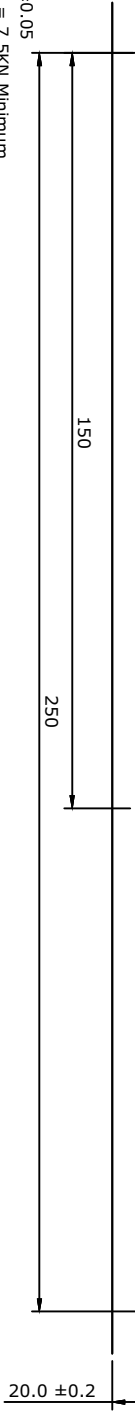
* MANUFACTURER

XX.XX

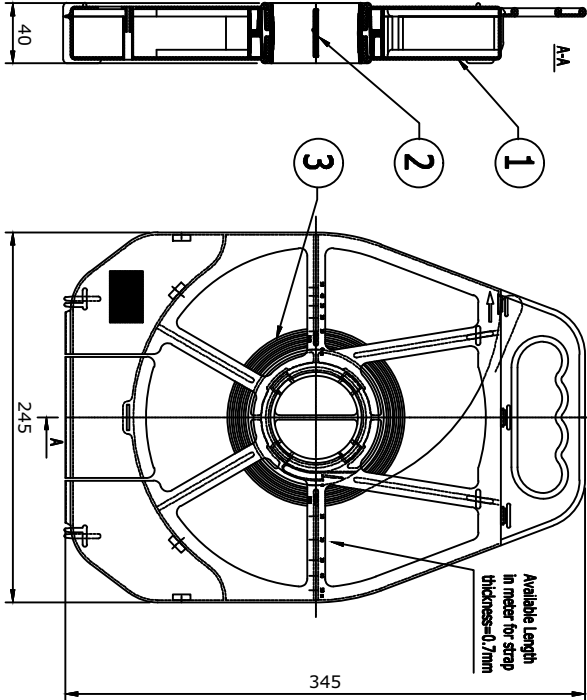
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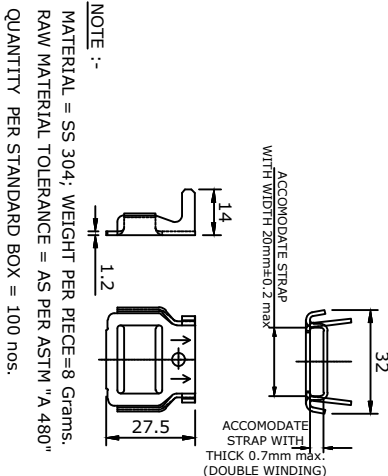
NOTE :-
THICKNESS = 0.7 \pm 0.05
TENSILE STRENGTH = 7.5KN Minimum
ELONGATION = 30%Min; FINISH = 2B
MATERIAL = SS 202
WEIGHT PER METER = 0.110 Kg (Min)
RAW MATERIAL (COMPOSITION) TOLERANCE = AS PER ASTM "A 480"



STANDARD CASING:-



BUCKLE:-



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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

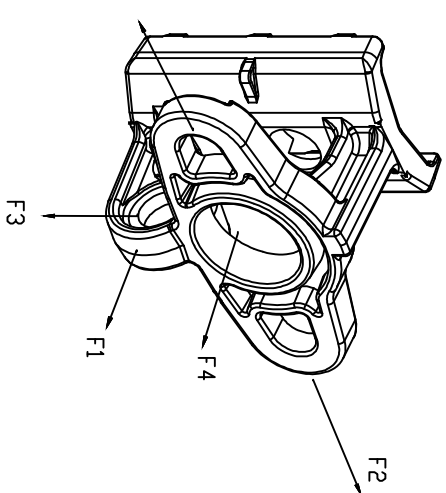
TITLE:
STAINLESS STEEL STRAP (20 x 0.7) & BUCKLES

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

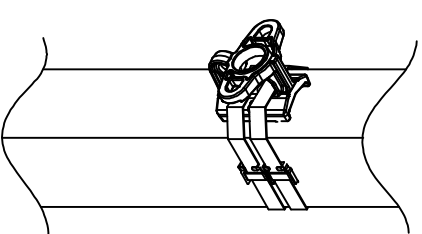
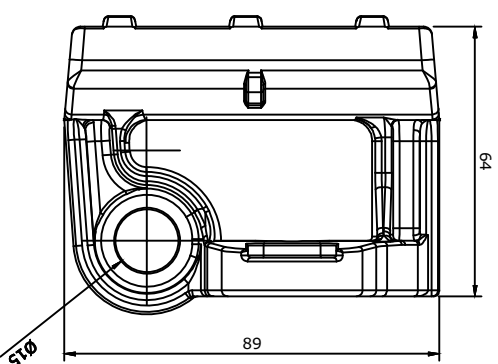
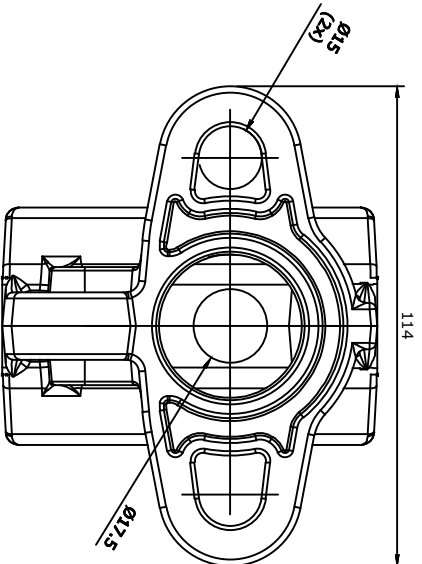
NOTE :-
GROSS WEIGHT PER CASING = 5.7 Kg (Approx.)
QUANTITY PER STANDARD CARTON BOX = 5 nos.

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



NOTE:-

MATERIAL : ALUMINIUM ALLOY

WEIGHT : 'W' GMS(Approx.)

STANDARD REFERENCE: SIMILAR TO NFC 33-041

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

UNIVERSAL POLE BRACKET

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
A4					

SIZE

SCALE

DRG. NO.

SHT. NO. REV. NO.

A4

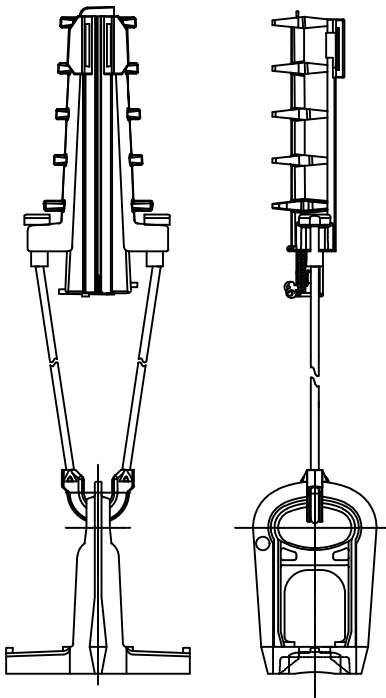
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REC/RDSS/LT-ACC-ABC/02

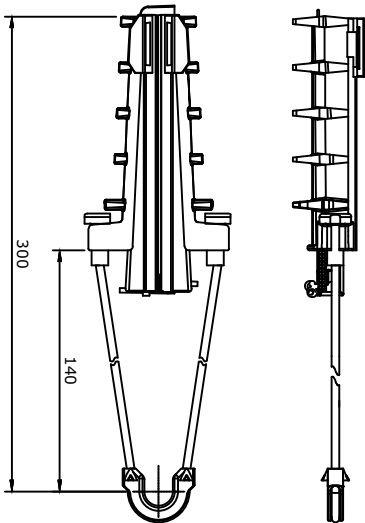
1 OF 1

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ANCHORING ASSEMBLY :-

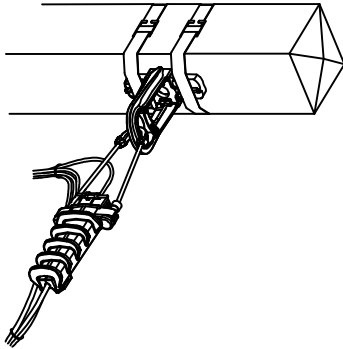


ANCHORING (DEAD-END) CLAMP :-



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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

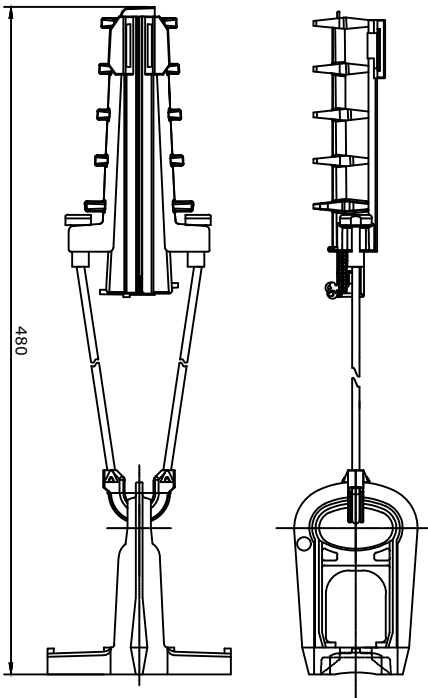
TITLE:

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

REV. NO.	R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

ANCHORING ASSEMBLY :-



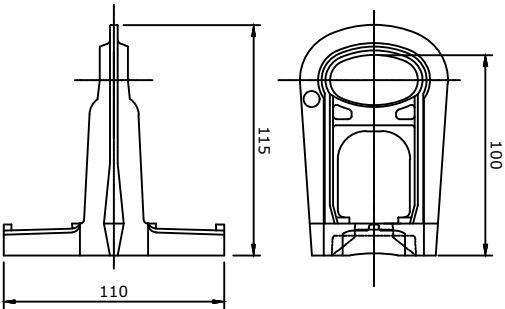
BRACKET :-

NOTE :-

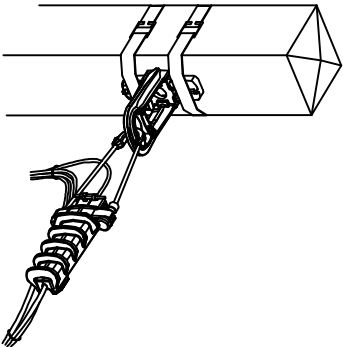
MATERIAL: ALUMINIUM ALLOY

SPECIFICATION :- AS PER NF C33-041

Minimum Breaking Load (kN)
20

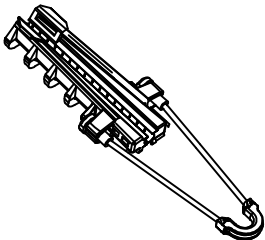


ANCHORING (DEAD-END) CLAMP :-



SPECIFICATION :- AS PER NF C33-041

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

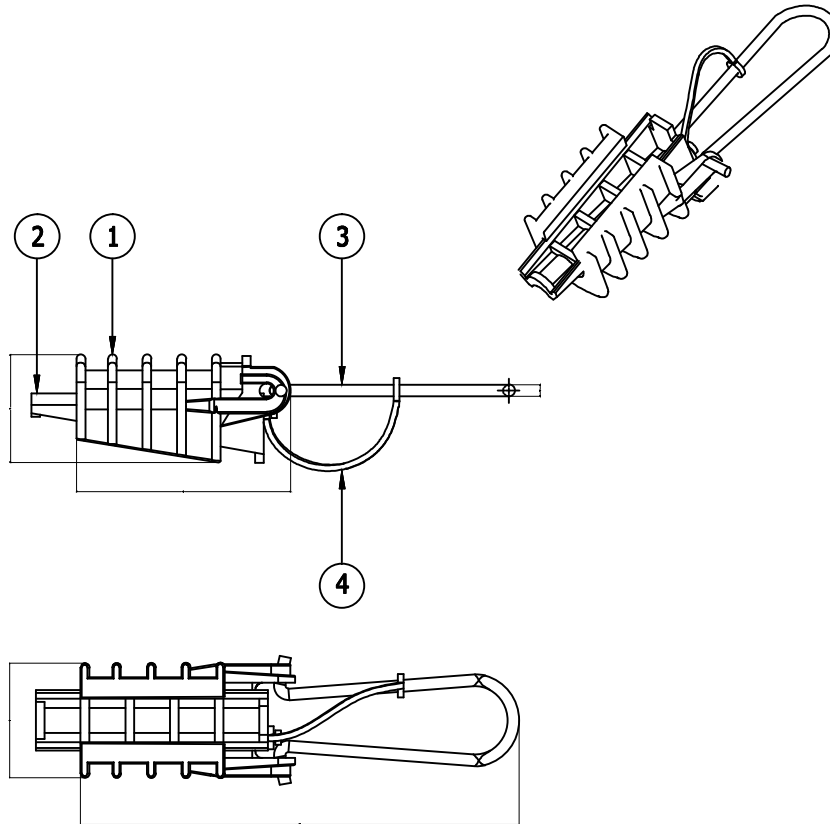
Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



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

FOR TENDER PURPOSE ONLY

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



Rural Electrification Corporation Ltd.

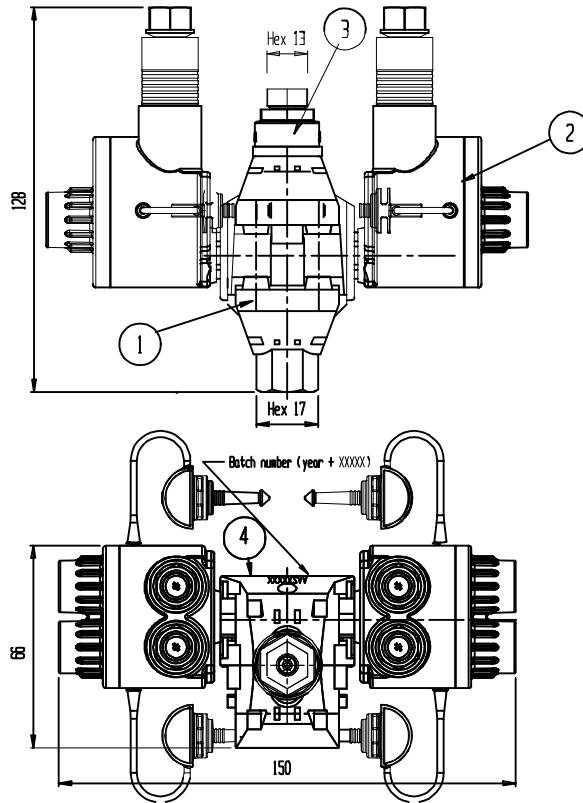
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

SERVICE CLAMP

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



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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

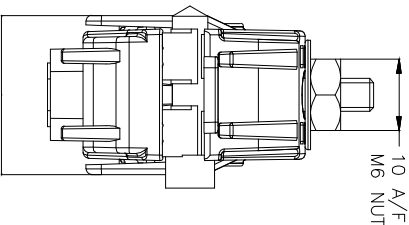
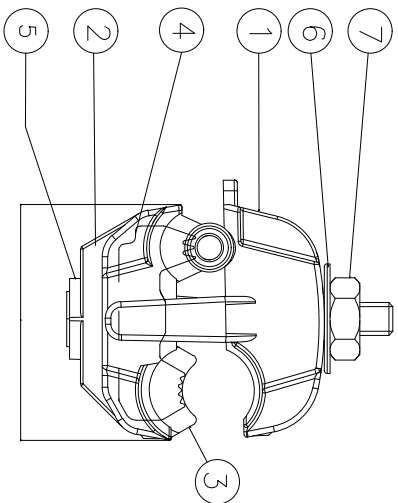
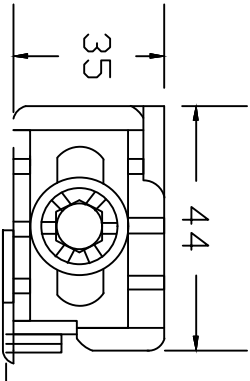
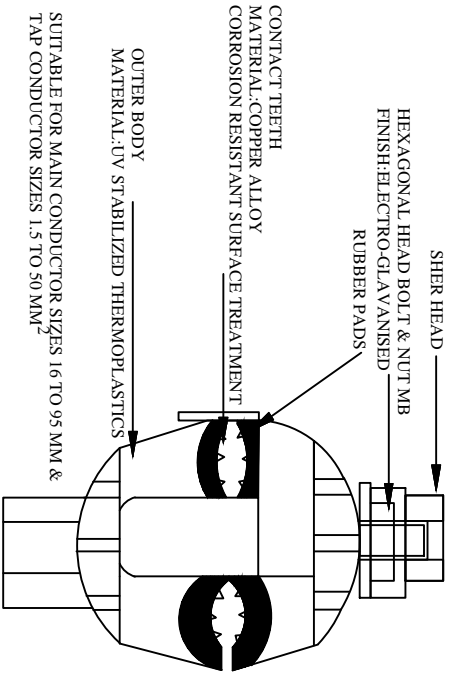
Revamped Distribution Sector Scheme (RDSS)

TITLE

**MUTIPOINT INSULATION PIERCING CONNECTOR
STRIPPING / PIERCING**

R0	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

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

All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

INSULATION PIERCING CONNECTOR

SIZE SCALE

DRG. NO.

SHT. NO. REV. NO.

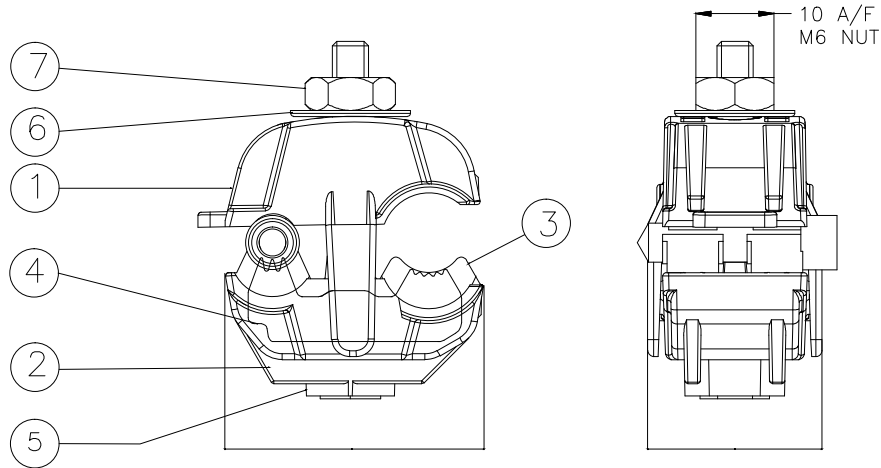
As MTS

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

1 OF 1

0

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



CABLE RANGE:

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

WEIGHT: "W" Grams (Approx)

RATED TIGHTENING TORQUE: "X" Nm

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

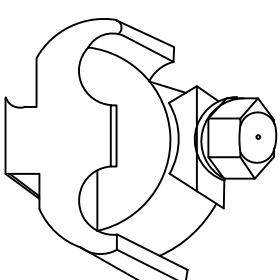
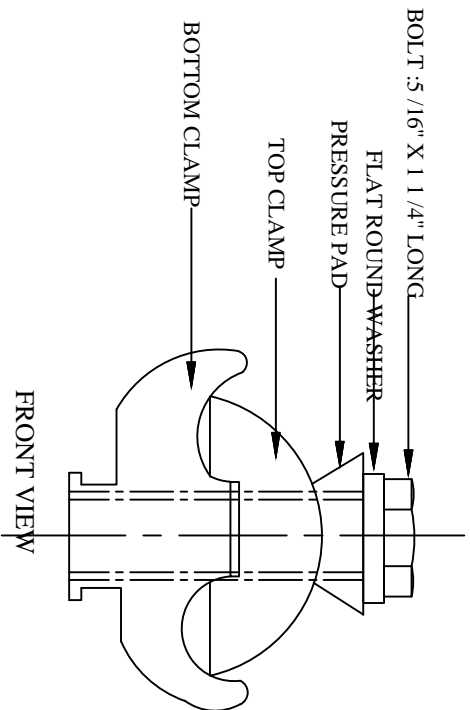
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

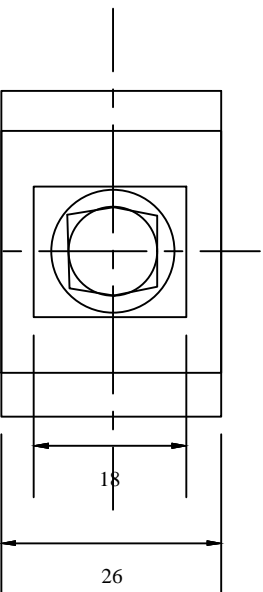
TITLE

EARTHING CONNECTOR

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



ISOMETRIC VIEW



TOP VIEW

SUITABLE FOR 2.5 mm² TO 50 mm² CONDUCTOR

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

All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

EARTHING CONNECTOR

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

A3 MTS

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

1 OF 1

0

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

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

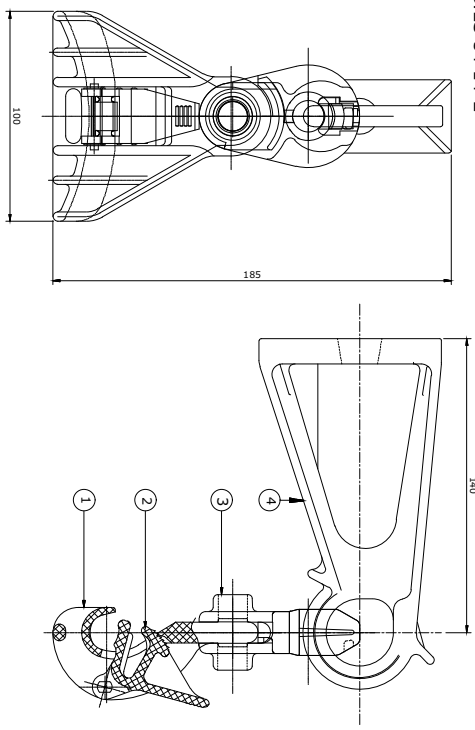
SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL: SEE TABLE

WEIGHT:380 GRAMS(Approx)

MARKING:ES 54 14-2



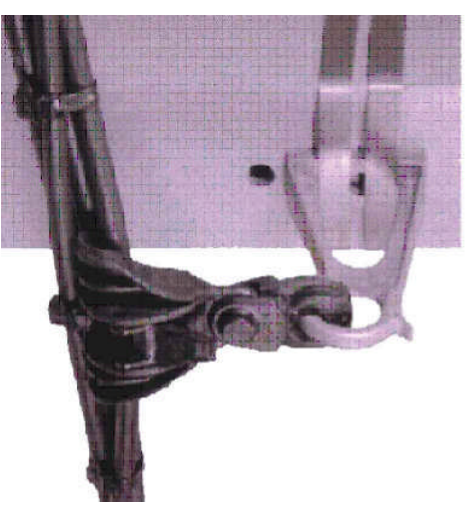
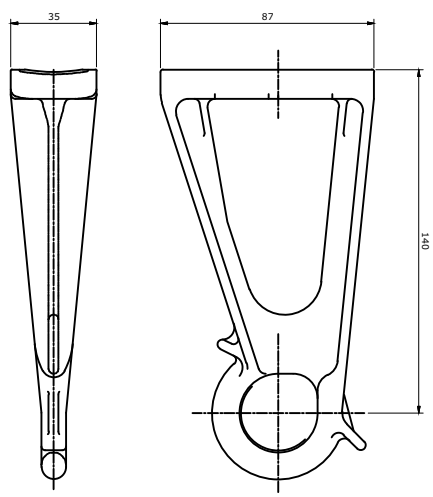
BRACKET :- CS 14

NOTE :-

MATERIAL: HEAT TREATED ALUMINIUM ALLOY

MARKING: CS 14

SPECIFICATION :- AS PER NFC33040



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

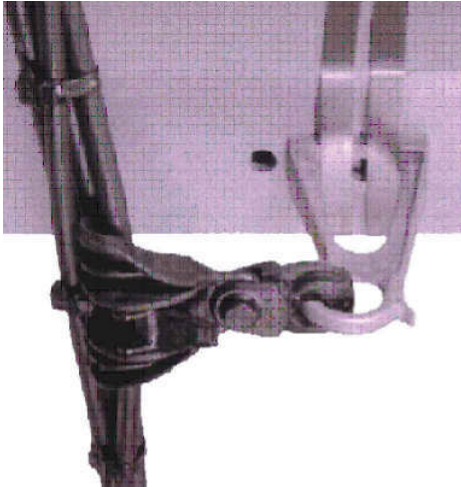
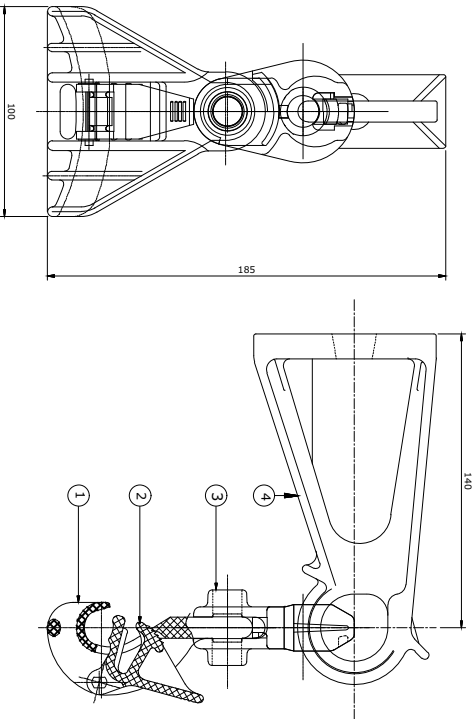
TITLE: SUSPENSION ASSEMBLY
(Cable Range 25-70 sq. mm)

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

SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL: SEE TABLE



SUSPENSION ASSEMBLY :-

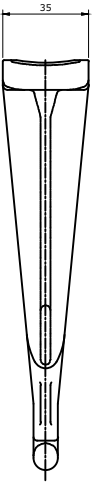
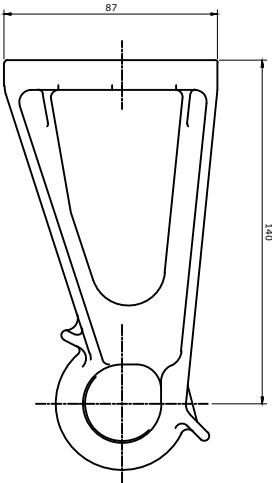
SPECIFICATION :- AS PER NF C33-040

BRACKET :-

NOTE :-

MATERIAL: HEAT TREATED ALUMINIUM ALLOY

SPECIFICATION :- AS PER NFC33040



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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

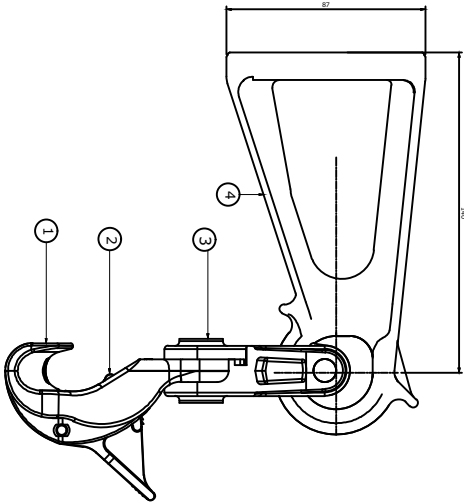
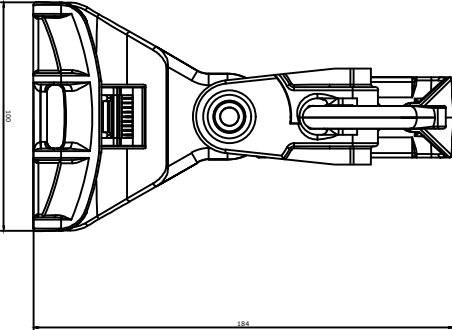
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.	
A4	1:100	REC/RDSS/L-T-ACC-ABC/07B	1 OF 1	0	

SUSPENSION ASSEMBLY :-

NOTE :-

MATERIAL : SEE TABLE

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

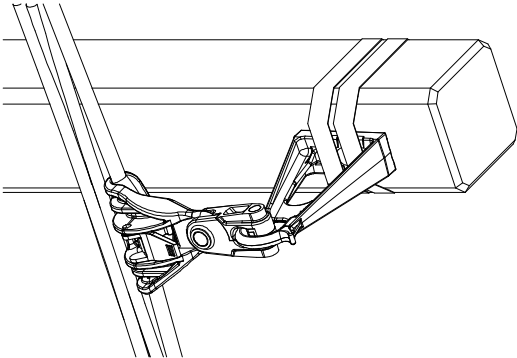
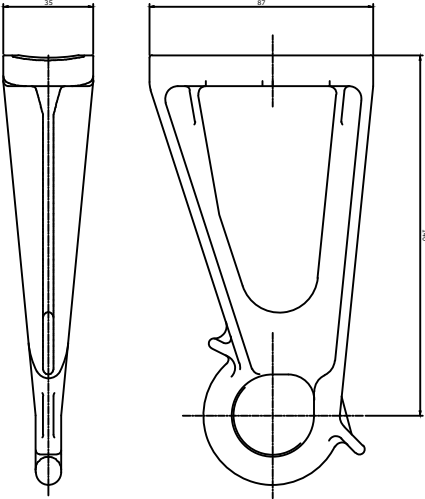


BRACKET :-

NOTE :-

MATERIAL : HEAT TREATED ALUMINIUM ALLOY

SPECIFICATION :- AS PER NFC33040



SUSPENSION ASSEMBLY :-

SPECIFICATION :- AS PER NF C33-040

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

GENERAL TOLERANCE ON DIMENSIONS: ± 5%

SIZE

A4

SCALE

1:100

DRG. NO.

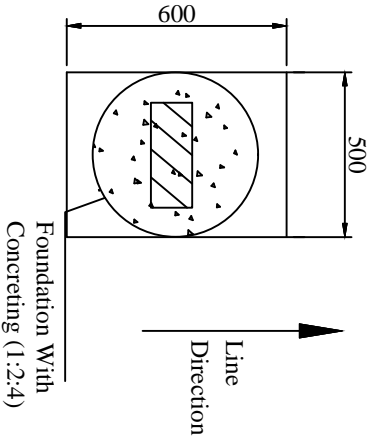
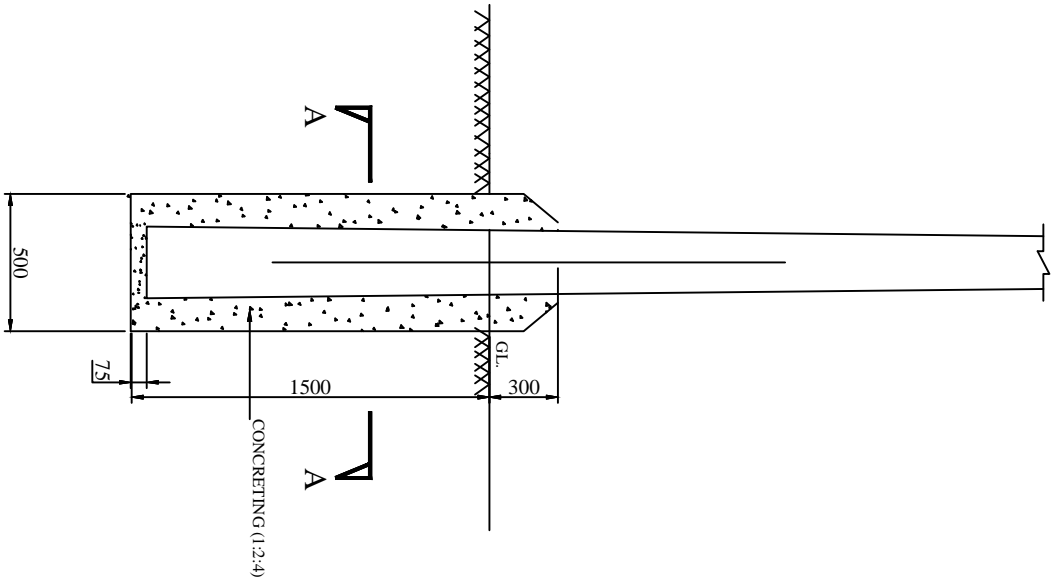
REC/RDSS/LT-ACC-ABC/07C

SHT. NO. REV. NO.

1 OF 1 0

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


All Dimensions are in mm unless otherwise mentioned



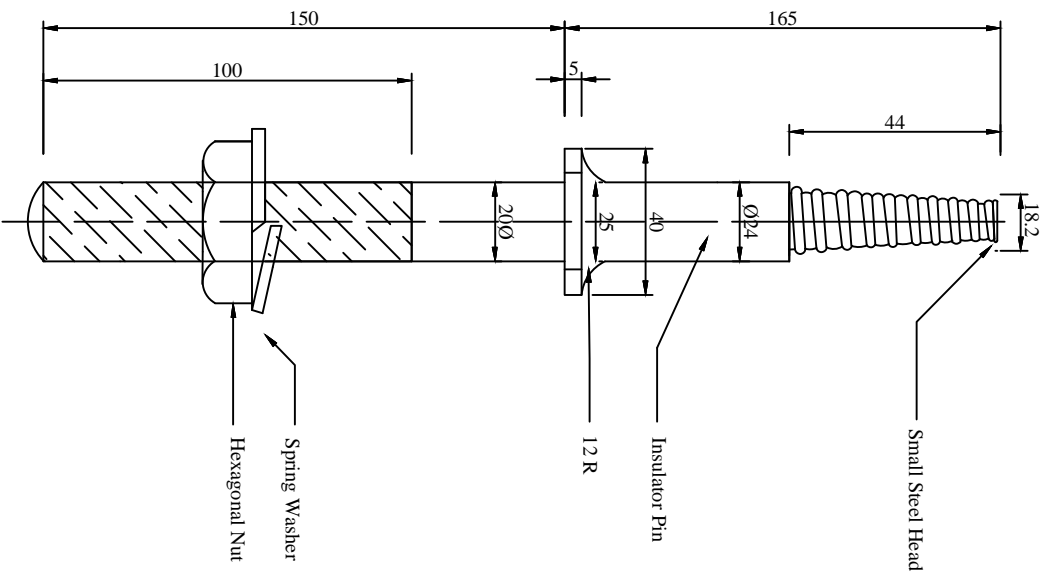
- NOTES:-
- 1.UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM.
 - 2.THIS ARRANGEMENT SHALL BE USED FOR ALL TAPPING POLES ,DEAD END POLES , DTC ANGULAR POLES, CROSSING, 2/4 POLE STRUCTURES AND FOR ALL 33 KV POLES.

FOR TENDER PURPOSE ONLY

Concrete Foundation For PSC Poles

 अरु ई सी REC <small>राष्ट्रीय ग्रामीण विद्युत आपूर्ति निगम</small>		Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)			
TITLE CONCRETE (PCC) FOUNDATION DETAILS FOR PSC POLES			
SIZE/SCALE		DRG. NO.	
A3 MTS		REC/RDSS/GEN/01	
REV. NO.		SHT. NO.	
1 OF 1		REV. NO.	
0			

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



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	: $\pm 5\%$
51 TO 100mm	: $\pm 4\%$
101 TO 300mm	: $\pm 3\%$
ABOVE 300mm	: $\pm 2\%$

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

PIN INSULATOR

SIZE

A3

SCALE

NTS

DRG. NO.

REC/RDSS/GEN/03

SHT. NO.

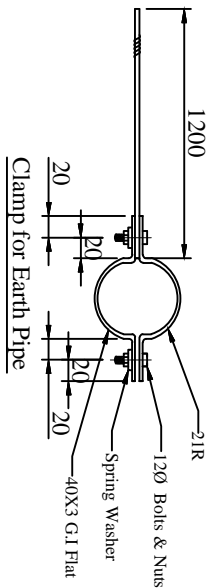
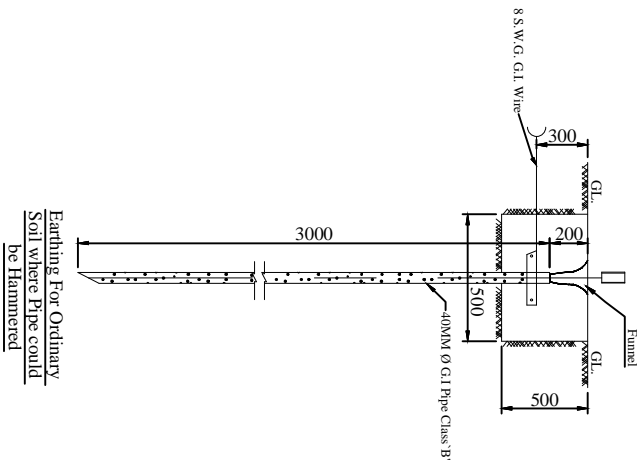
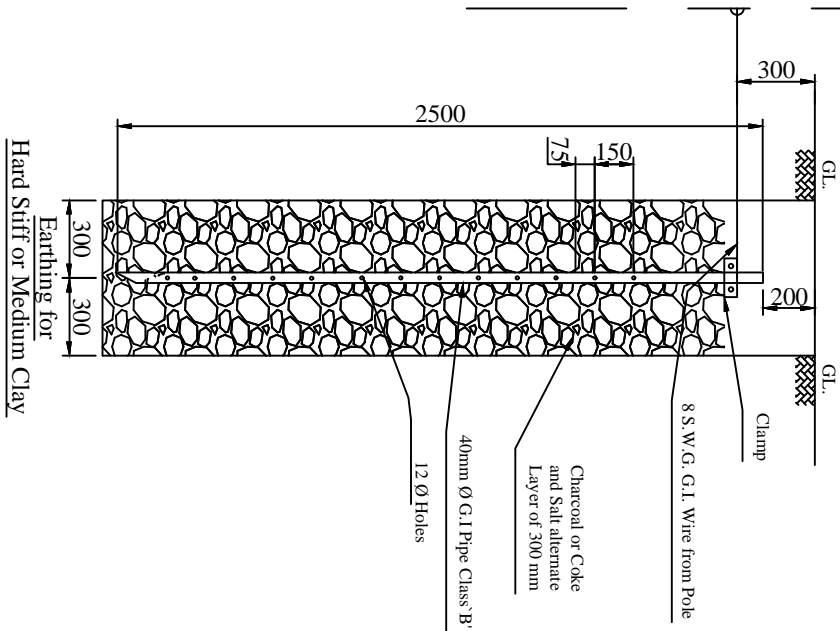
1 OF 1

REV. NO.

0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

BILL OF MATERIAL							
S.NO.	DESCRIPTION	ERECTION MARK	SECTION	LENGTH in MM	W/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



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

Rural Electrification Corporation Ltd.



PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

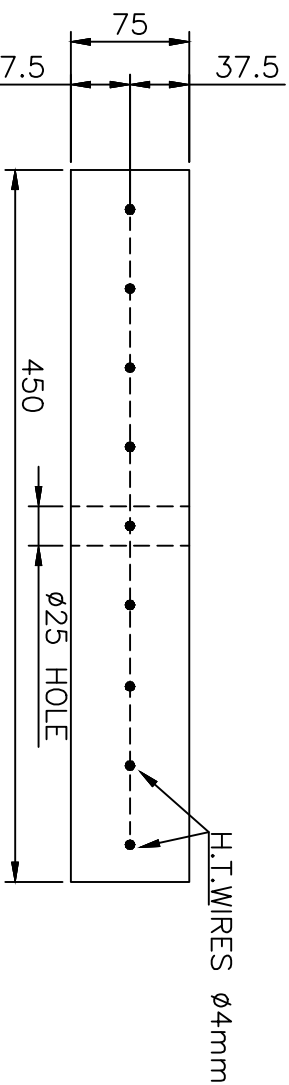
PIPE TYPE EARTHING

SIZE SCALE DRG. NO.

REC/RDSS/GEN/04

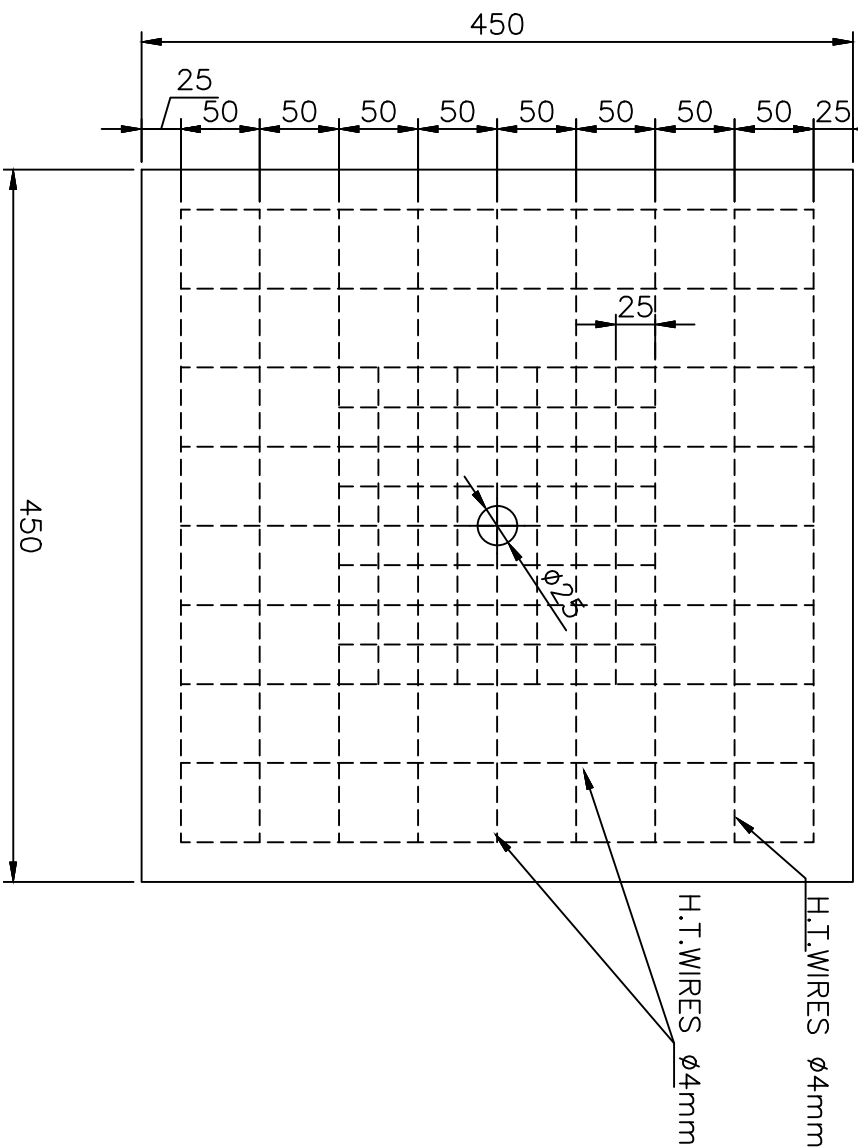
SHT. NO. REV. NO.
1 OF 1 0

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



NOTES:-

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

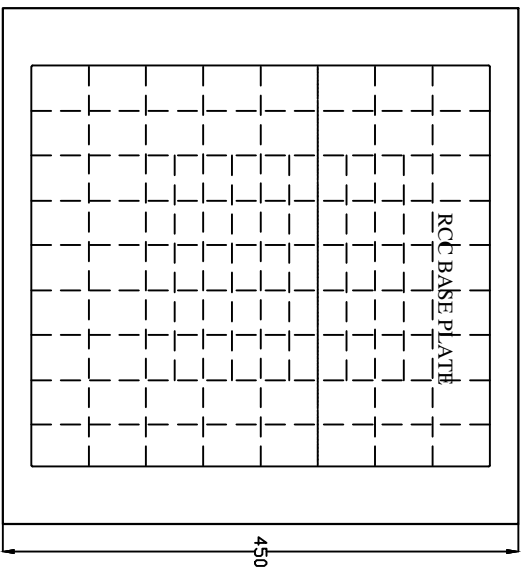
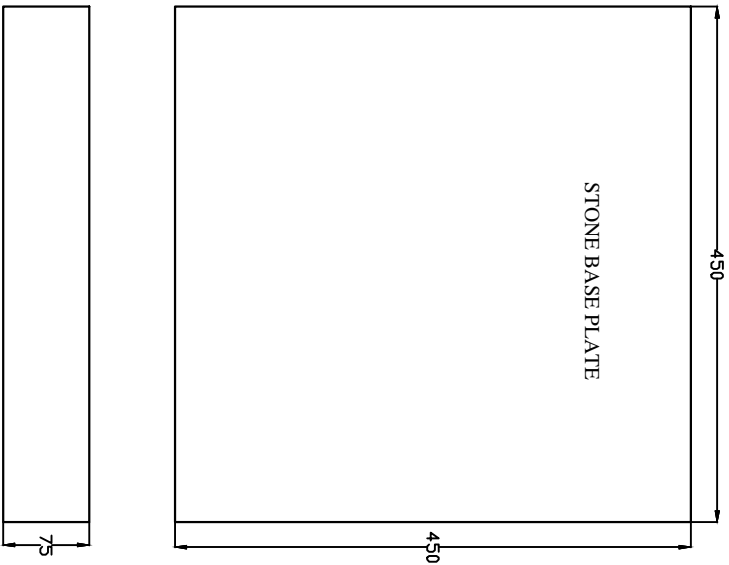
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

RCC BASE PAD FOR PCC POLE

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



All dimensions are in mm.

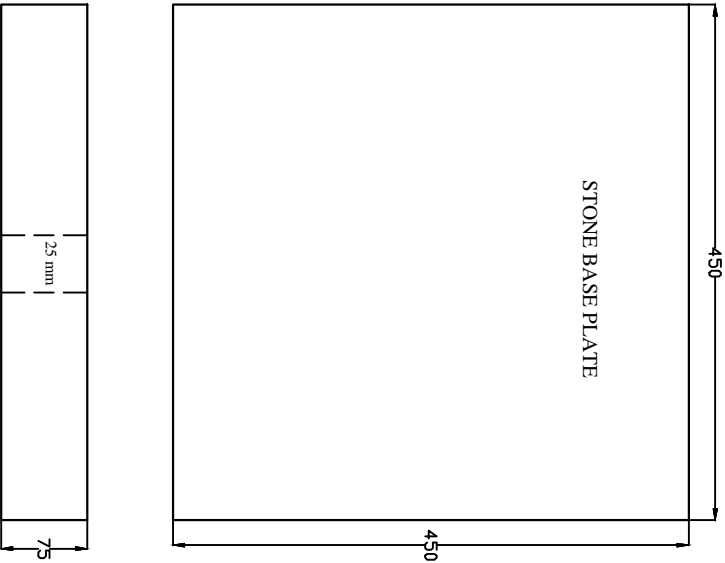
FOR TENDER PURPOSE ONLY

REC Rural Electrification Corporation Ltd.

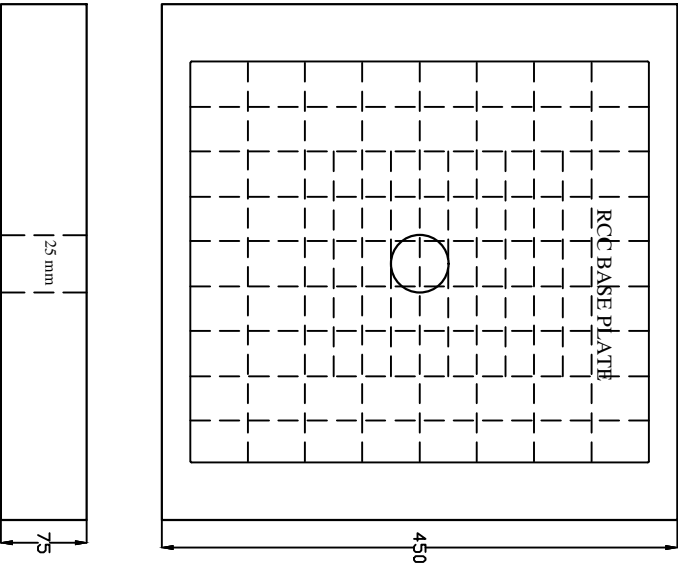
Revised Distribution Sector Scheme (RDSS)

DRAWING FOR STONE/RCC BASE PLATE
FOR STAY SET

RD	DESIGNED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.	REV. NO.	REV. NO.	REV. NO.	REV. NO.	REV. NO.
SIZE/SCALE	PRG. NO.	REC/RDSS/GEN/05B	SFT. NO.	REV. NO.	
1/1	1/1	1/1	1 OF 1	0	




50
250
25 mm
HT Wire 4 mm

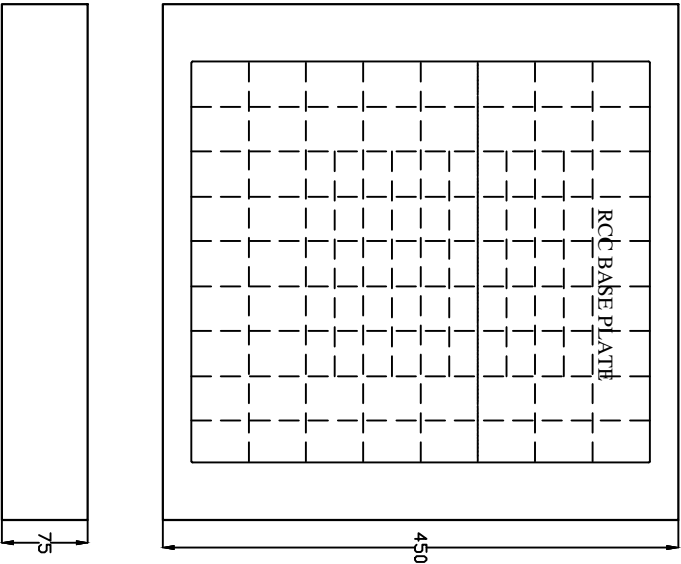
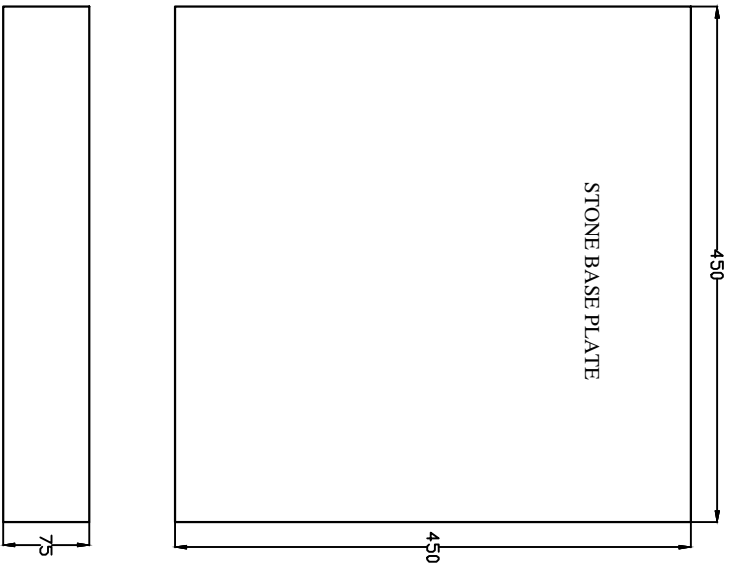


FOR TENDER PURPOSE ONLY

All dimensions are in mm.

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

		Rural Electrification Corporation Ltd.	
PROJECT:		Revamped Distribution Sector Scheme (RDSS)	
TITLE		DRAWING FOR STONE/RCC BASE PLATE	
FOR STAY SET			
SIZE/SCALE	PRG. NO.	SFT. NO.	REV. NO.
AS NOTED	REC/RDSS/GEN/SC	1 OF 1	0



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

REC
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

RD	DESIGNED	CHECKED	APPROVED	SCALE	PROJECT	SIZE/SCALE	DRG. NO.	SFT. NO.	REV. NO.
RD	DESIGNED	CHECKED	APPROVED	SCALE	PROJECT	SIZE/SCALE	DRG. NO.	SFT. NO.	REV. NO.
RD	DESIGNED	CHECKED	APPROVED	SCALE	PROJECT	SIZE/SCALE	DRG. NO.	SFT. NO.	REV. NO.
RD	DESIGNED	CHECKED	APPROVED	SCALE	PROJECT	SIZE/SCALE	DRG. NO.	SFT. NO.	REV. NO.

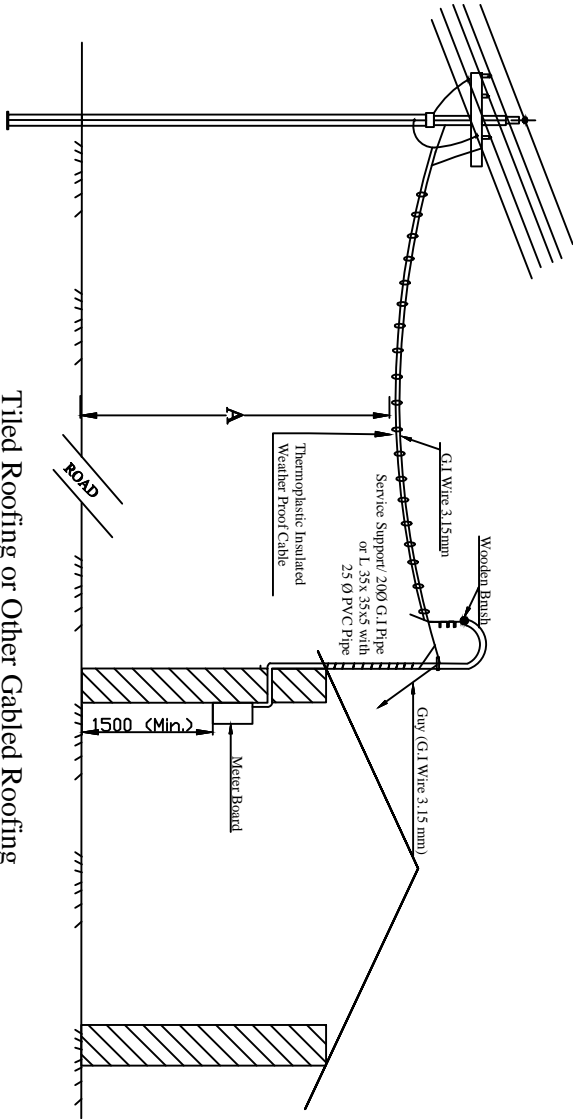
Type & Size of Service Cable

Type	Connected Load	Size
Twin Core Thermoplastic Insulated W.P. Cables As PER IS 3035 (Part-I) IS 3035 (Part-III)	Upto 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

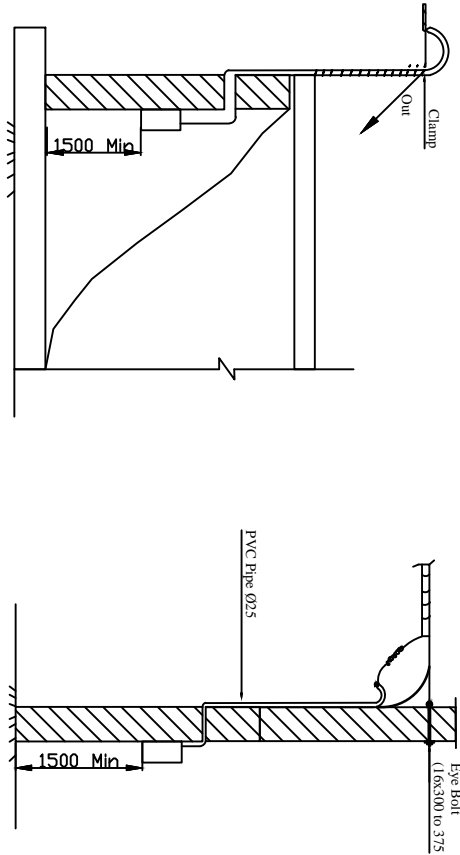
Tiled Roofing or Other Gabled Roofing



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

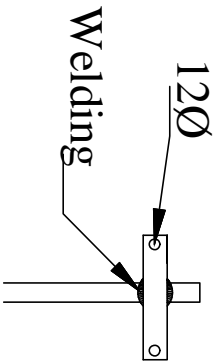
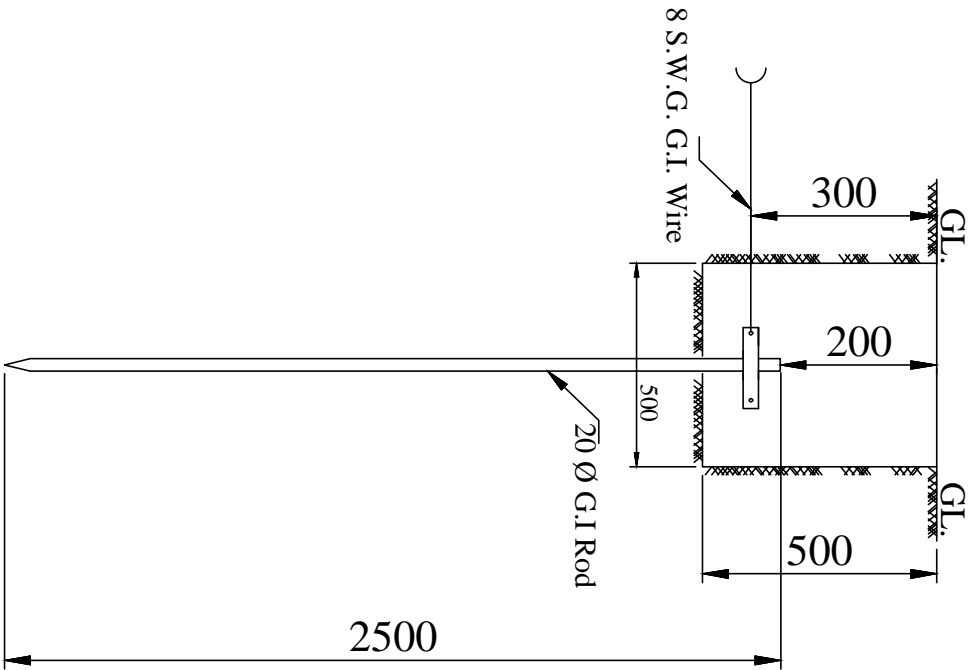
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: LT Service Connection Single Phase

SIZE/SCALE	DWG. NO.	SHT. NO.	REV. NO.
A3 MTS	REC/RDSS/GEN/06	1 OF 1	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. (in Kg.)
1	Earth Spike Rod	Dia.20	2500	1	2.500
2	Clamp for Earth Spike	40x3	190	1	0.900
3	Bolt & Nuts	M12	30	1	0.058
4	Spring Washers (3.5 THK.)	M12		1	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. 12Ø STUD.
 3. MANUFACTURING TOLERANCE.
UPTO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
 4. CLAMP IS TO BE WELDED TO SPIKE.
 5. THE WHOLE ASSEMBLY IS TO BE HOT DIP GALVANISED (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



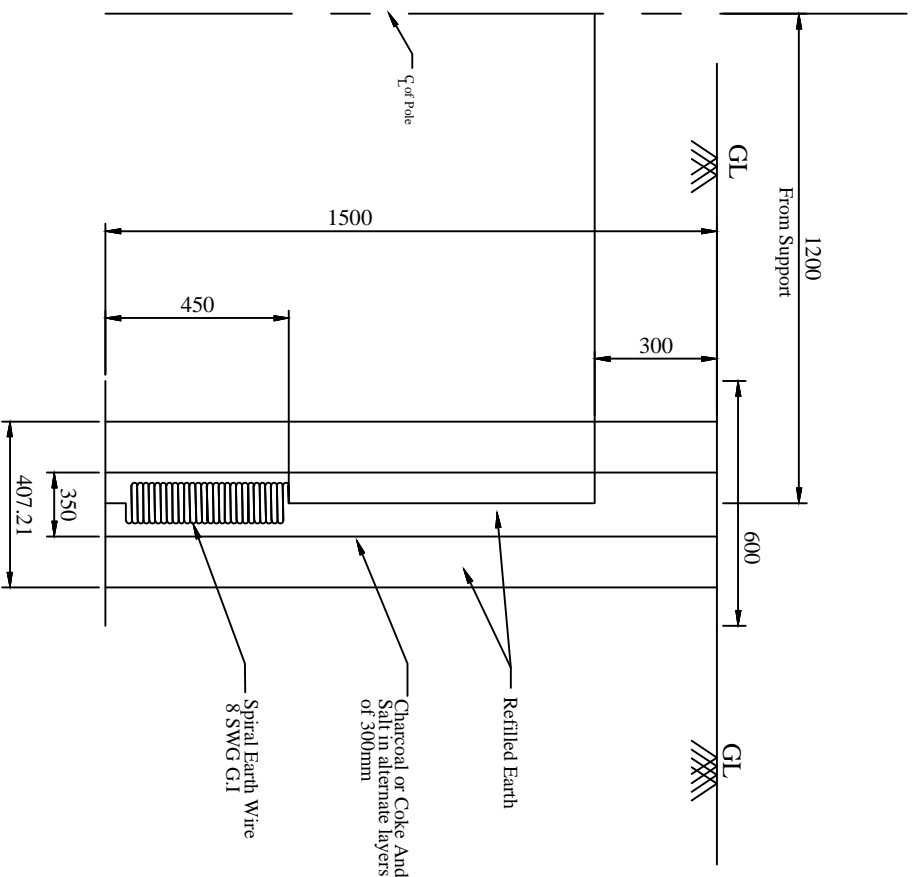
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

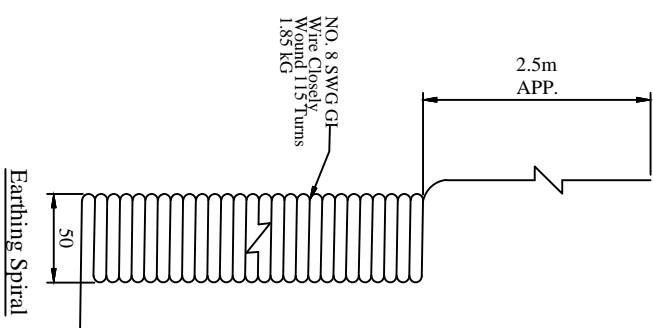
TITLE SPIKE TYPE EARTHING FOR NORMAL SOIL

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

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



Coil Earthing Details



NOTES:-

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

FOR TENDER PURPOSE ONLY

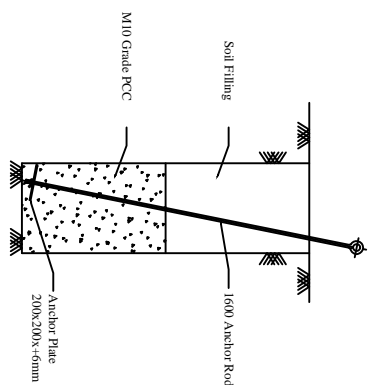
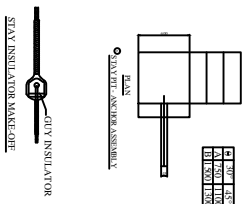
Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

TITLE
SPIRAL EARTHING DETAILS

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

All Dimensions are in mm unless otherwise mentioned
Manufacturing Tolerance as Follows
Up to 50mm : $\pm 5\%$
51 to 100mm : $\pm 4\%$
101 to 300mm : $\pm 3\%$
Above 300mm : $\pm 2\%$



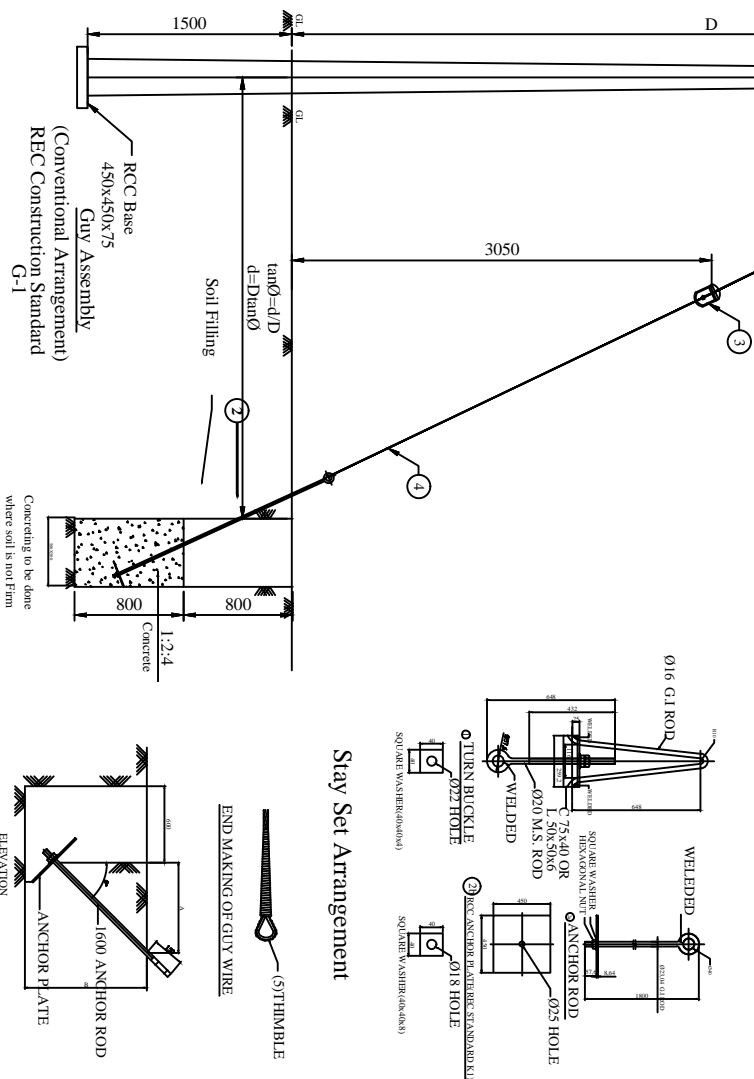
BILL OF MATERIAL					
ITEM NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
1	TURN BUCKLE ASSEMBLY		G.I.		1 NO.
a	EYE BOLT	Ø20mm	G.I.	550	1 NO.
b	SUPPORTING ANGLE	L50x50x6	G.I.	180	1 NO.
c	EYE HOOK	Ø16mm	G.I.	1000	1 NO.
d	WASHER	4MM	G.I.	40X40	1 NO.
e	NUT	M20	G.I.		2 NOS.
2	ANCHOR ROD & ANCHOR PLATE		G.I.		1 NO.
a	ANCHOR ROD	Ø16mm	G.I.	1900	1 NO.
b	ANCHOR PLATE (REC STANDARD K-1)	75 MM	RCC	450X450	1 NO.
c	SQUARE WASHER	8 MM	G.I.	40X40	1 NO.
d	NUT	M16	G.I.		1 NO.
3	GIY INSULATOR				1 NO.
4	STAY WIRE	7/3.15mm	G.I.		1 NO.
5	THIMBLE		G.I.		2 NOS.

Concreting 0.2cm

NOTES:-

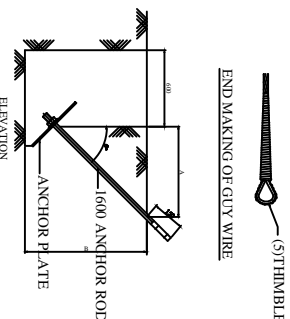
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) ALL M.S. ITEM SHALL BE HOT DIP GALVANISED AS PER IS 2629&4759
- 3) MANUFACTURING TOLERANCE
UP TO 50mm - $\pm 5\%$
51 TO 100mm - $\pm 4\%$
101 TO 300mm - $\pm 3\%$
ABOVE 300mm - $\pm 2\%$
- 4) M.S. MATERIAL SHALL CONFIRM TO IS: 2062.
- 5)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

Stay Set Arrangement



Stay Set Arrangement

Concreting to be done where soil is not firm



FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

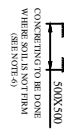
TITLE: STAY SET ARRANGEMENT FOR 11KV/LT LINE

SIZE SCALE: DRG. NO.

A3 NTS REC/RDSS/GEN/09A

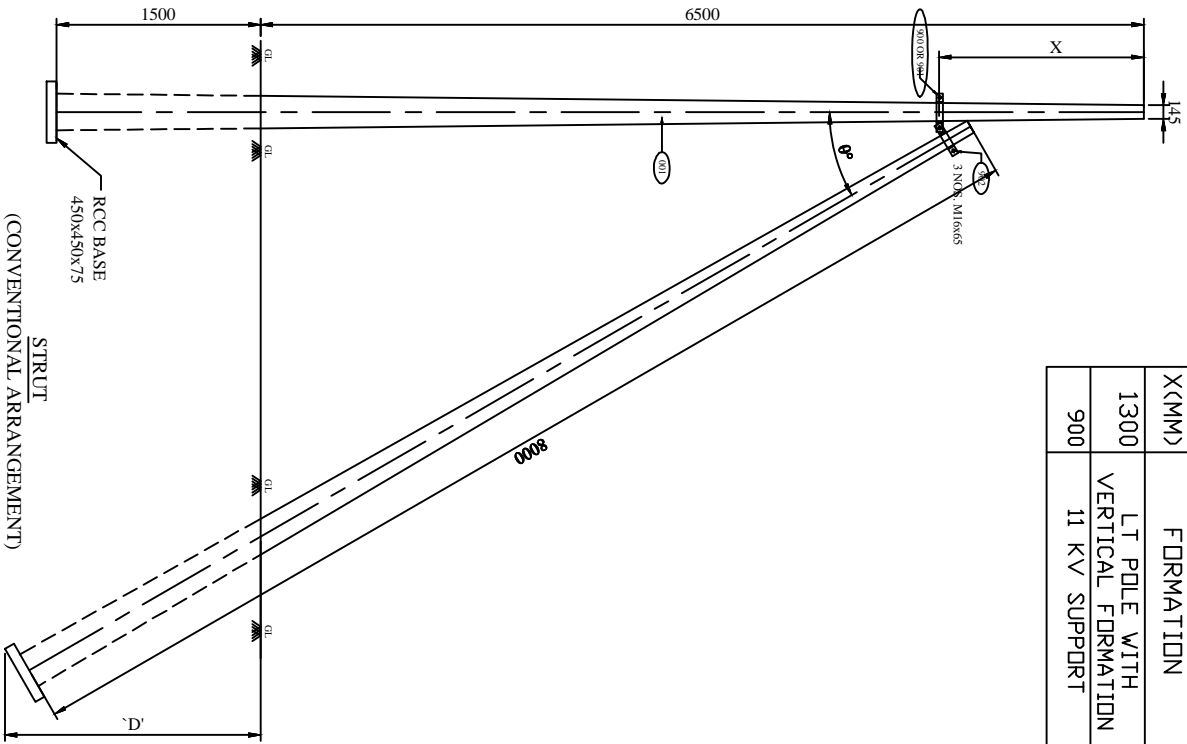
SHT. NO. REV. NO.

1 OF 1 0



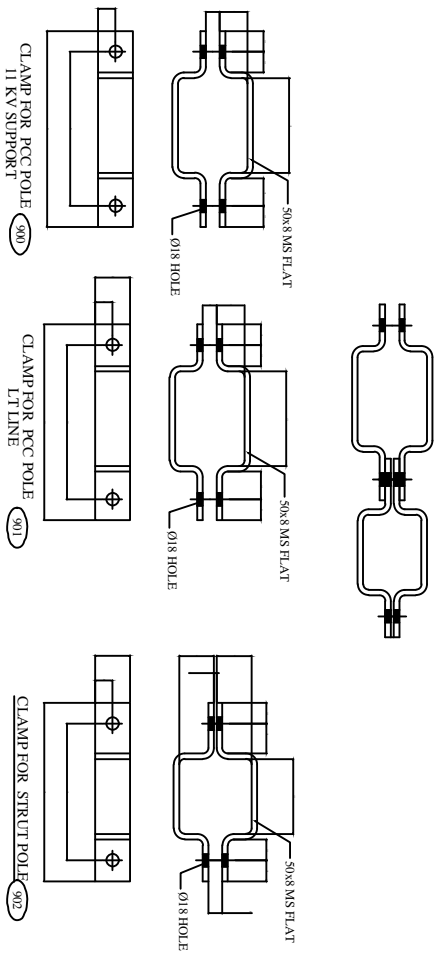
01011

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



BILL OF MATERIAL

ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG./mt.	QTY.	TOTAL WT. KG.
001	8mm 200 KG. RCC POLE					AS REQD.	
900	CLAMP FOR RCC POLE (11KV SUPPORT)	50x8	MS	378	3.14	2 NOS.	2.373
901	CLAMP FOR RCC POLE (LT LINE)	50x8	MS	385	3.14	2 NOS.	2.418
902	CLAMP FOR STRUT POLE	50x8	MS	366	3.14	3 NOS.	0.492
	NUTS & BOLT	M16		65	0.164	3 NOS.	0.027
	SPRING WASHER	M16		3.5 THK.	0.009	3 NOS.	0.045
	PLAIN WASHER	M16		3 THK.	0.015	3 NOS.	0.045
						TOTAL	7.653



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 CONFIRM TO IS 2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 5262 & 4799
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE ONLY.
- 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS 596 PART-1.

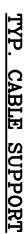
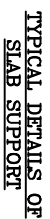
FOR TENDER PURPOSE ONLY



PROJECT: Revamped Distribution Sector Scheme (RDSS)

STRUT ARRANGEMENT

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



- FOR TENDER PURPOSE ONLY

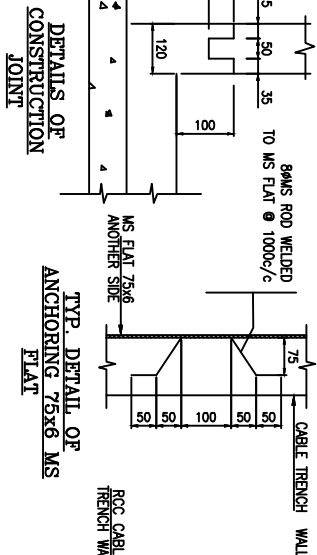
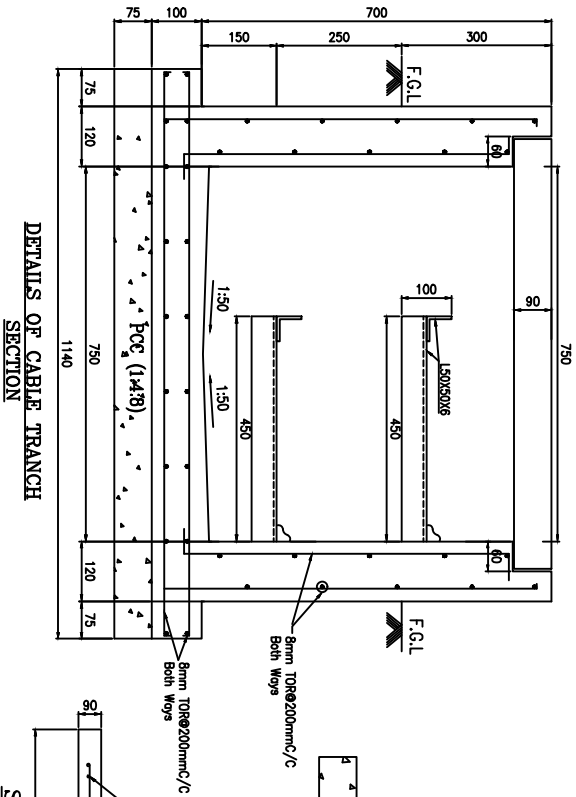


Revamped Distribution Sector Scheme (RDSS)

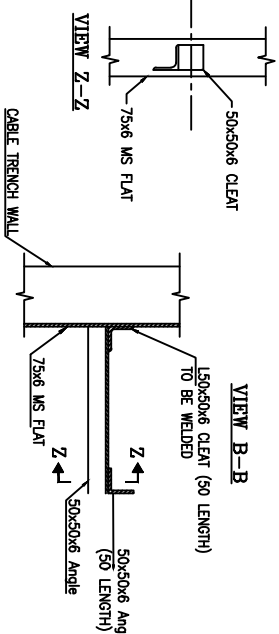
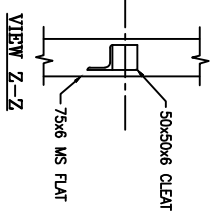
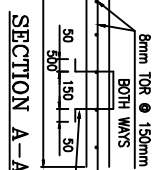
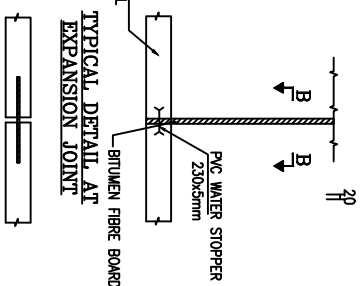
TITLE

DETAILS OF 500MM WIDE CABLE TRENCH

					SHEET NO.	REV. NO.
R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	
	A4	1:100	REC./ RDSS /GEN/1/A		1 OF 1	0

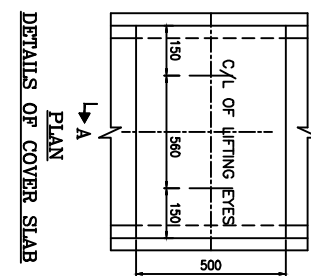


TYP. DETAIL OF ANCHORING 75x6 MS FLAT

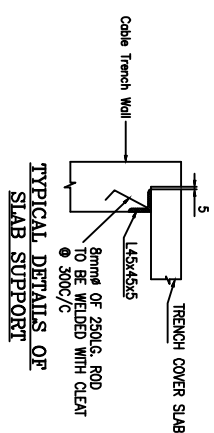
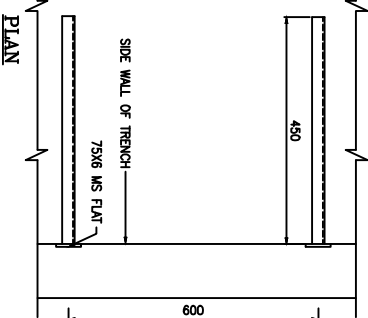


TYP. CABLE SUPPORT

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



FOR TENDER PURPOSE ONLY



TYPICAL DETAILS OF SLAB SUPPORT

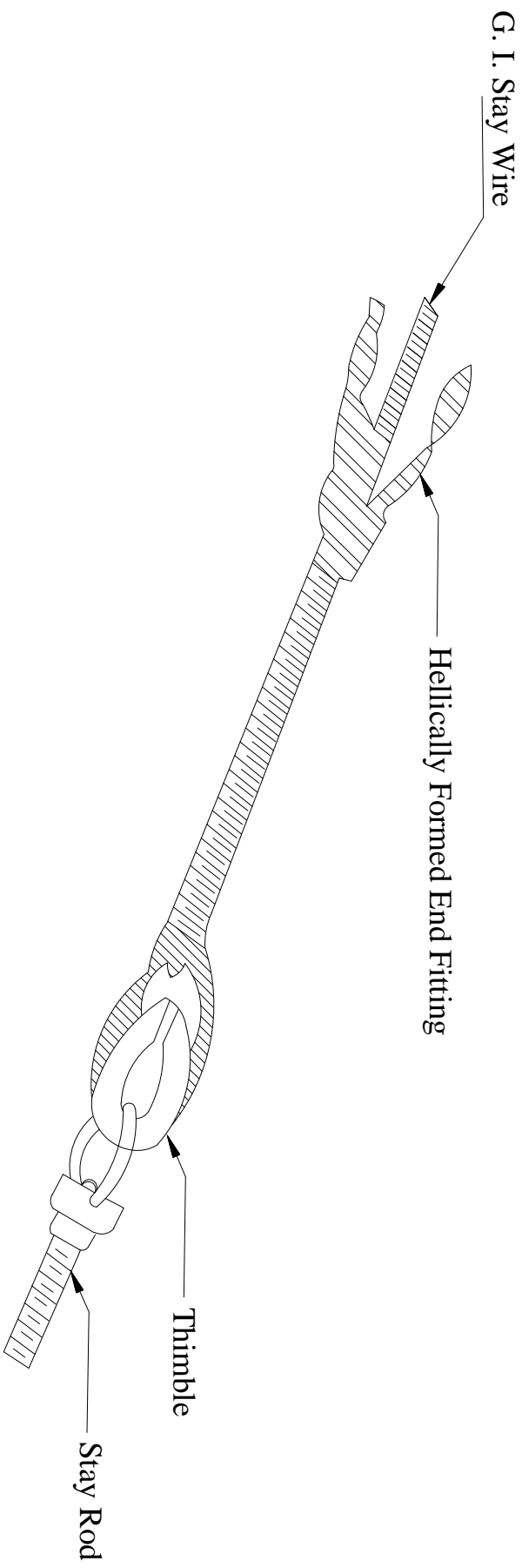


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

DETAILS OF 750MM 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/11B	1 OF 1	0



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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

Guy-End Assembly (Using Hellically Formed Fitting)

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

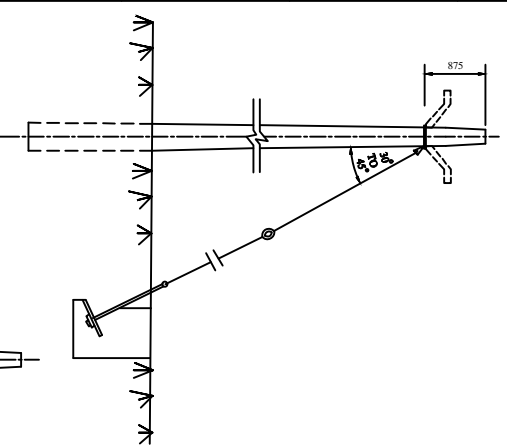


FIG :- 1

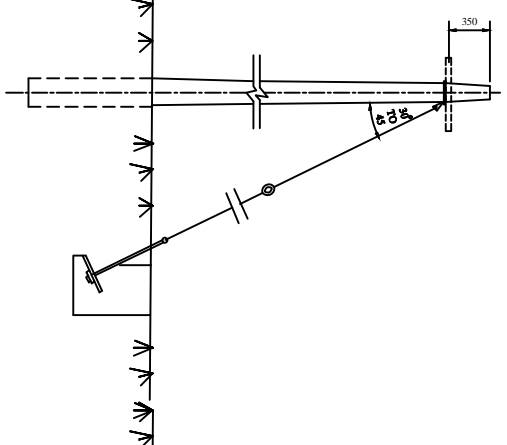


FIG :- 2
SINGLE GUY

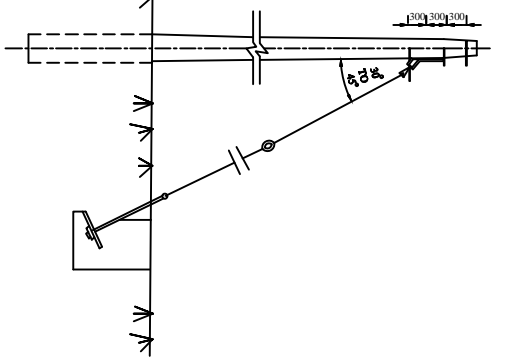
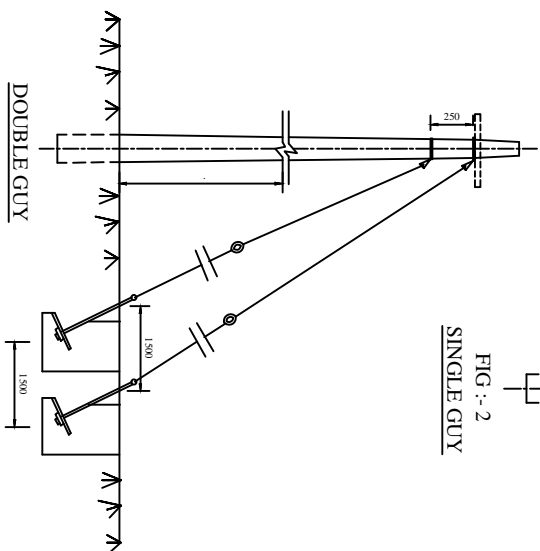


FIG :- 3



DOUBLE GUY

NOTES :-

1. SINGLE GUY ARRANGEMENT AS PER FIGURE 1, 2 & 3 CAN BE USED WHEN TOTAL TENSION TO BE TAKEN ON THE GUY DOES NOT EXCEED THE FOLLOWING LIMITS
2. IN THE DURABLE GUY ARRANGEMENT THE FOUNDATION OF THE GUYS SHOULD BE SO PLACED THAT ONE DOES NOT REDUCE THE STRENGTH OF THE OTHER. IN OTHER WORDS, THE SOIL WHICH RESISTS THE UP - LIFT SHOULD NOT BE DISTURBED WHILE DIGGING THE FOUNDATION FOR THE OTHER STAY.
3. FOR DETAILS OF COMPONENTS OF GUY ASSEMBLY, REFER, G - 1.

FOR TENDER PURPOSE ONLY



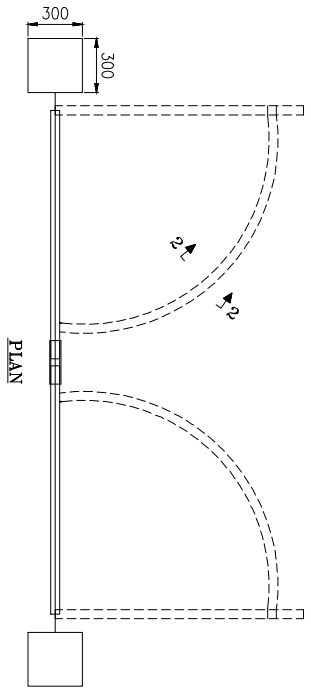
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

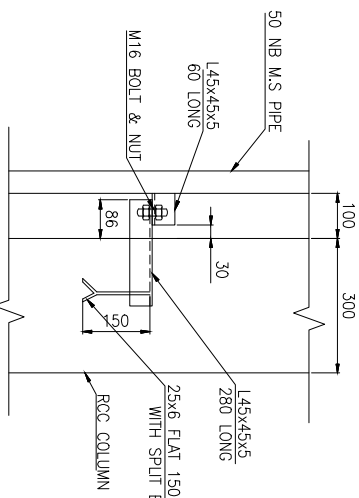
TITLE: Guying Arrangement Single & Double Guy

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

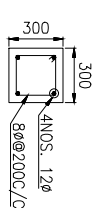


PLAN

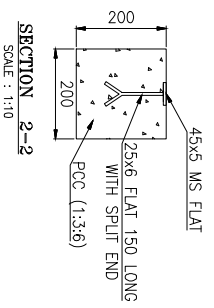


DETAIL - X

SCALE : 1:10

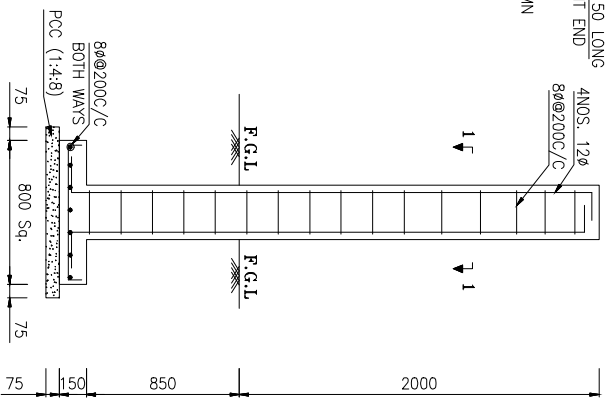


SECTION 1-1



SECTION 2-2

SCALE : 1:10

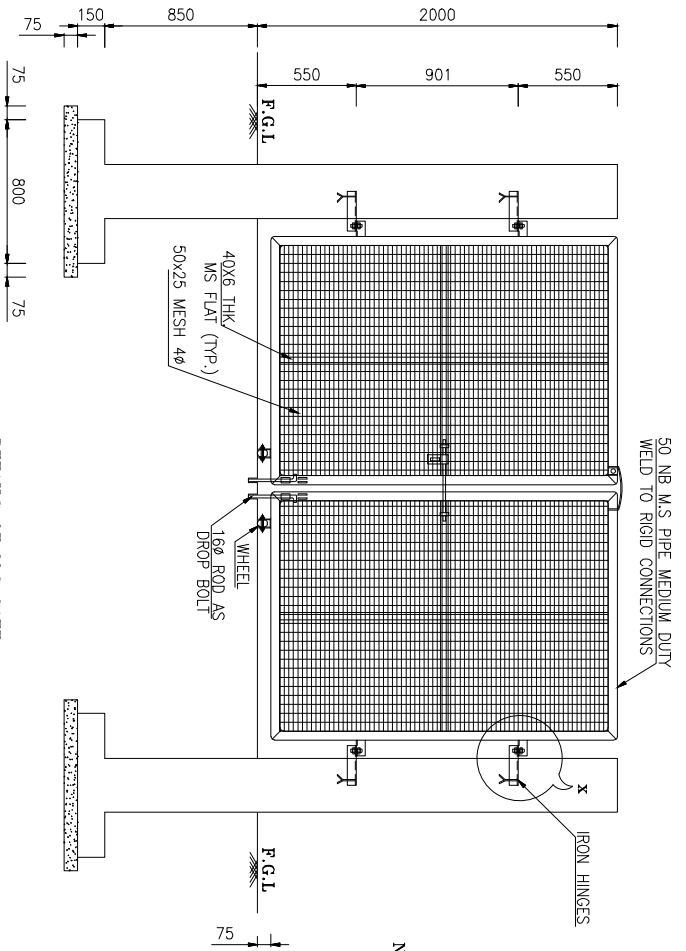


COLUMN DETAILS

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



Rural Electrification Corporation Ltd.

PROJECT:

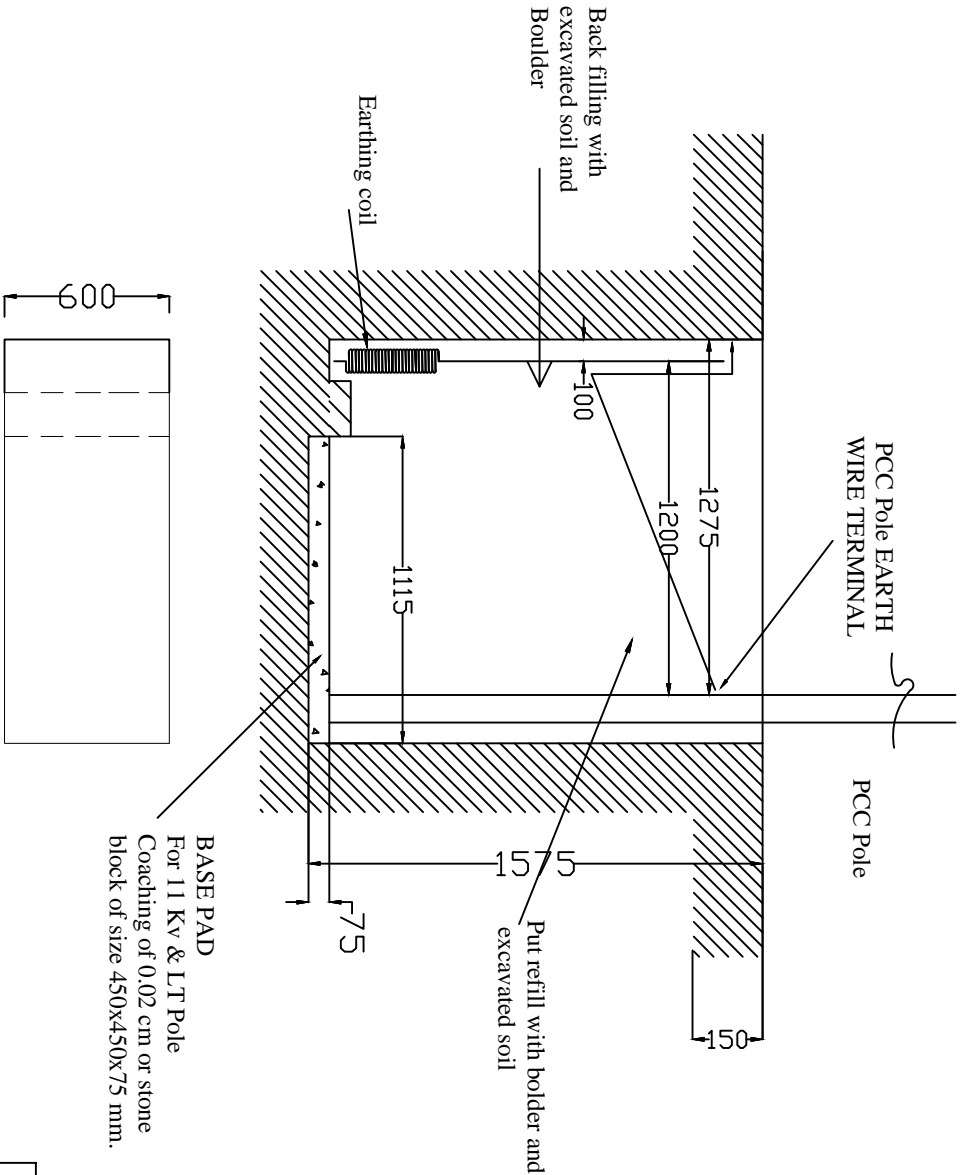
Revamped Distribution Sector Scheme (RDSS)

TITLE:

DETAILS OF M.S. GATE

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

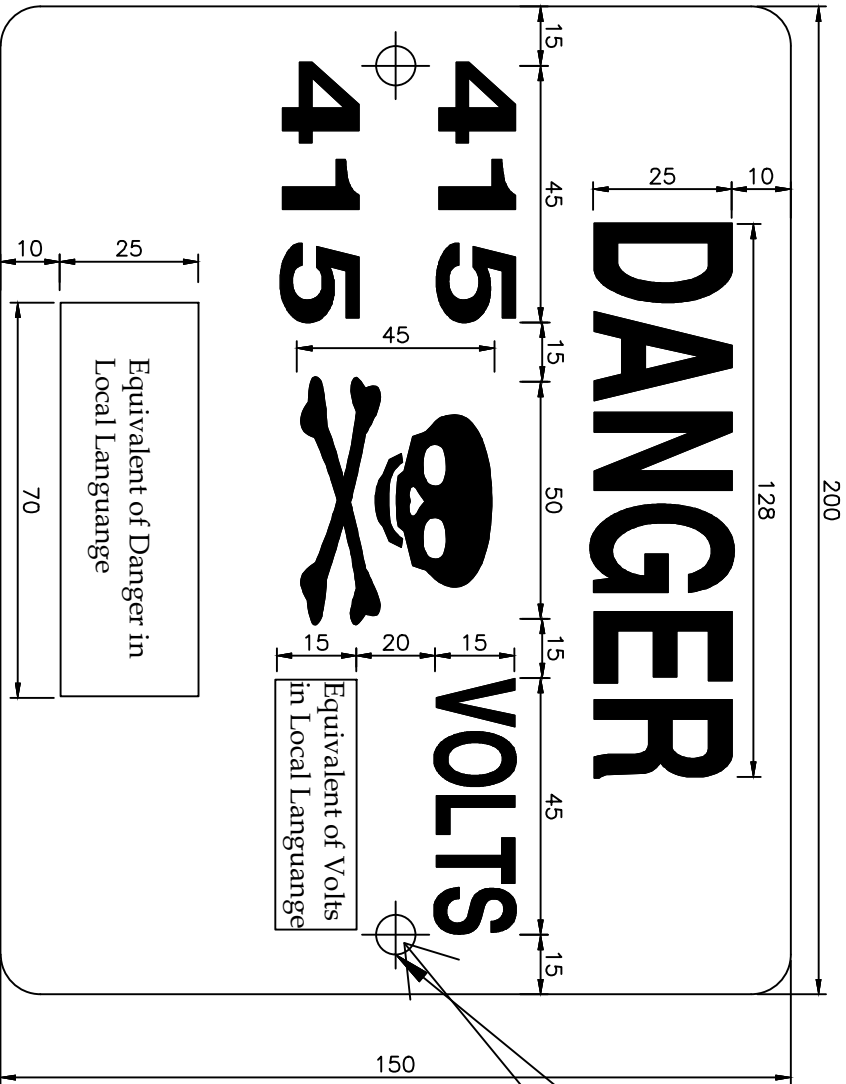


Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: DRAWING FOR POLE PTT FOR PCC POLE FOR NORMAL SOIL

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



All Dimensions are in mm unless otherwise mentioned

FOR TENDER PURPOSE ONLY

NOTES:-

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

HOLES Ø10MM



Rural Electrification Corporation Ltd.

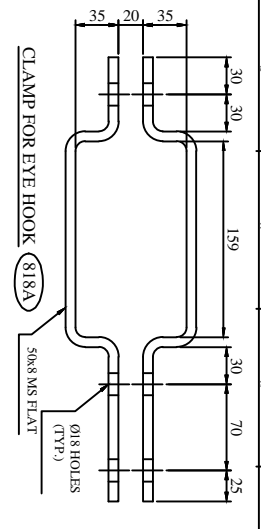
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

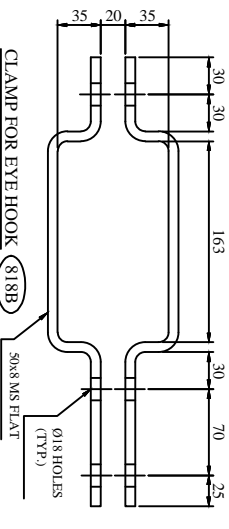
433V DANGER BOARD

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	



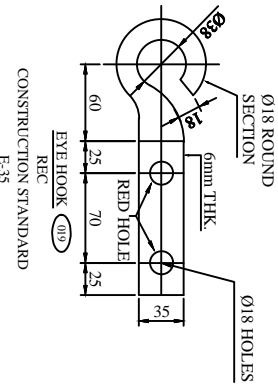
CLAMP FOR EYE HOOK (818A)

1 SET=2 NOS.(HALF CLAMP)



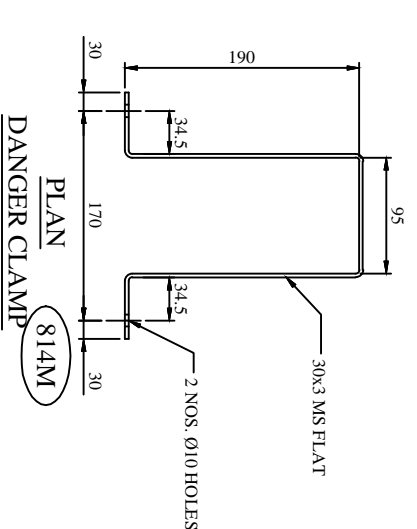
CLAMP FOR EYE HOOK (818B)

1 SET=2 NOS.(HALF CLAMP)

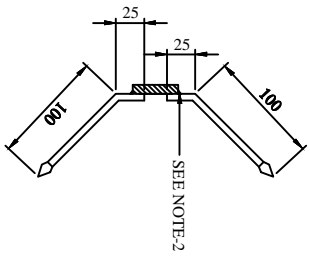


Ø18 ROUND SECTION

CONSTRUCTION STANDARD E-35



PLAN DANGER CLAMP (814M)



6mm ROD SPIKE SECTION A-A

BILL OF MATERIAL						
S.R. NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	QTY.
1	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO.
2	CLAMP FOR EYE HOOK	50x8	M.S.	430-430	3.14	1 SET
3	CLAMP FOR EYE HOOK	50x8	M.S.	434-434	3.14	1 SET
4	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395-395	1.60	1 SET
5	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413-413	1.60	1 SET
	SPIKE	6mm ROD	M.S.	125	0.22	56 NOS.
TOTAL						9.98

S.R. 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	0.036KG/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.	0.080
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 ISLC CHANNELS.

FOR TENDER PURPOSE ONLY

REC

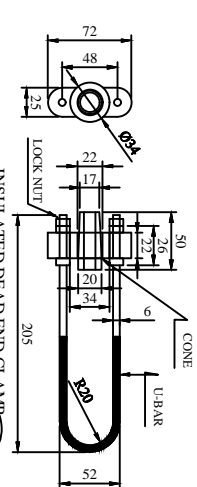
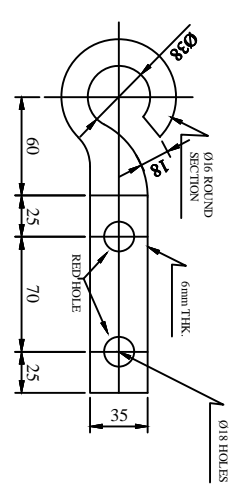
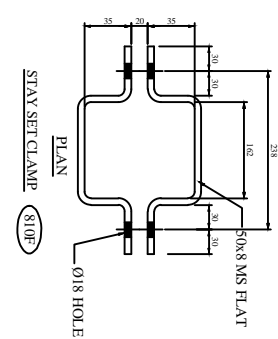
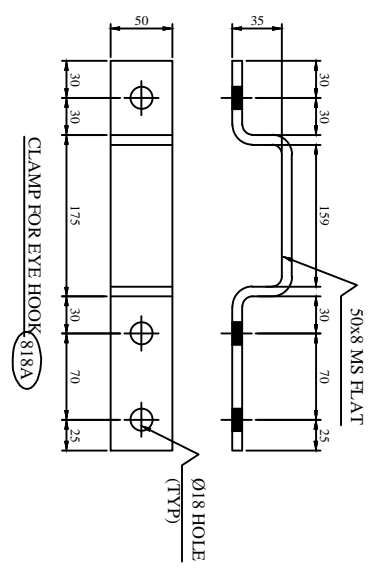
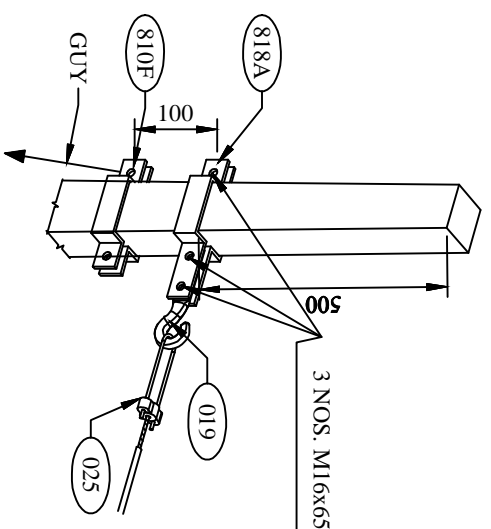
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

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



- 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:SP8 PART-1.
- ALL CHANNELS SHALL BE ISLC CHANNELS.

EYE HOOK 019
REC
CONSTRUCTION STANDARD
E-35

INSULATED DEAD END CLAMP 025
REC
CONSTRUCTION STANDARD
E-35

ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	50x200x6 PSC POLE	1 NOS.	REC-XII Pba-GIN/01/A
003	HARBED WIRE	3.5 MTRS.	
022	45x15 DANGER BOARD	1 NOS.	REC-XII Pba-GIN/01/B
005	SPRNG LAMINATING	1 SET	REC-XII Pba-GIN/01/C
008	STAY SET ADJACENT	1 SET	REC-XII Pba-GIN/01/D
810F	CLAMP FOR DANGER BOARD	1 NOS.	REC-XII Pba-GIN/01/E
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Pba-LT/007
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Pba-LT/007
810F	CLAMP FOR STAY SET	1 SET	REC-XII Pba-LT/015
818A	CLAMP FOR EYE HOOK	1 SET	
019	EYE HOOK	1 NOS.	
025	DEAD END CLAMP	1 NOS.	
	NUTS & BOLTS	AS REQD	REC-XII Pba-LT/014

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./MT.	QTY.	TOTAL WT. KG.
810F	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.291	1 NOS.	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
810F	CLAMP FOR STAY SET	50x8	M.S.	368	3.14	2 NOS.	2.311
	SPRNG	6mm RD/3	M.S.	125	0.22	36 NOS.	1.54
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14	2 NOS.	2.700
019	EYE HOOK					1 NOS.	
025	DEAD END CLAMP					1 NOS.	
	NUTS & BOLTS	M16		65	0.164	6 NOS.	0.984
	NUTS & BOLTS	M10		60	0.058	6 NOS.	0.348
	NUTS & BOLTS	M8		60	0.028	2 NOS.	0.056
	SPRNG WASHERS	M10		3.5 THK.	0.0098	3 NOS.	0.029
	SPRNG WASHERS	M10		3.5 THK.	0.0098	2 NOS.	0.019
	SPRNG WASHERS	M8		3.5 THK.	0.0028	3 NOS.	0.008
	PLAIN WASHER	M16		3 THK.	0.0158	3 NOS.	0.047
	PLAIN WASHER	M10		3 THK.	0.0082	2 NOS.	0.016
	PLAIN WASHER	M8		3 THK.	0.0042	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

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

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

DETAIL 'B'

SHACKLE INSULATOR CHANNEL

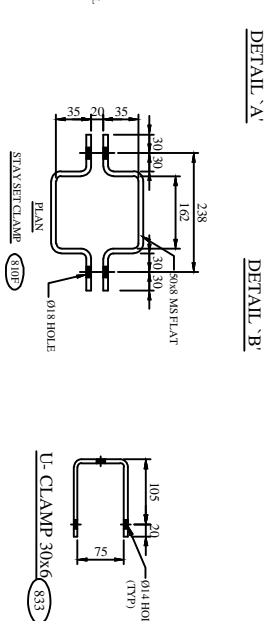
**BOTTOM CLAMP FOR (834D)
SHACKLE INSULATOR CHANNEL**

The figure contains two technical drawings:

- U-CLAMP 30x6 833**: A side view showing a U-shaped clamp with a total width of 105 mm. The distance between the inner vertical legs is 75 mm. One leg has a hole labeled "Ø14 HOLE (TYP)". The height of the vertical leg is 20 mm.
- STAY SET CLAMP 811**: A plan view showing a rectangular frame-like structure. It features four mounting points, each consisting of a circular base plate (labeled "50x8 MS PLAT") and a central screw. Dimensions include a total length of 171 mm, a total width of 95 mm, and individual segment widths of 66 mm and 25 mm. Spacing between components is given as 30+30+30+30 mm. A hole at one end is labeled "Ø18 HOLE".

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
2. MANUFACTURING TOLERANCE
 - 51 TO 100mm : ± 0.63
 - 101 TO 300mm : ± 1.25
 - 301 ABOVE 300mm : ± 2.5
3. ALL DIMENSIONS CONFORM TO BS 2073
4. ALL MS FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS 2029 & 4759
5. ALL THE ITEMS SHALL BE MARKED WITH IDENTIFICATION CODE.
6. WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSES
7. ALL CLAMPS AND ANGLES SHALL CONFORM TO IS 5876 PART- 1.
8. ALL CHANNELS SHALL BE ISLC CHANNELS.

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



BILL OF MATERIAL			
E&E CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	BAZOOKA PISTOL	1 MO.	REC-XI PM-17-001A
003	BARRIED WIRE	3 MTR	
005	SPRKE LIGHTING	1 SET	REC-XI PM-17-0012
006	STAY SET ARMENING MTR	1 SET	
022	415V RANMER BOARD	1 MO.	
023	17 SHOCK INSULATOR (TYPE-1)	2 NOS.	REC-XI PM-17-011
831A	SHOCK INSUL. WITH MOTIVATING CHANNEL	1 MO.	
834M	CLAMP FOR RANMER BOARD	1 MO.	REC-XI PM-17-001
816	TOP CLAMP FOR ANT CLIMBING DEVICE	1 MO.	REC-XI PM-17-001
817	BOTTOM CLAMP FOR ANT CLIMBING DEVICE	1 MO.	REC-XI PM-17-001
810F	STAY SET CLAMP	1 SET	REC-XI PM-17-011
832	CLAMP FOR SHOCK INSULATOR CHANNEL	2 SET	REC-XI PM-17-011
833	CLAMP FOR SHOCK INSULATOR	2 NOS.	REC-XI PM-17-011

BILL OF MATERIAL						
LINE CODE	DESCRIPTION	MATERIAL	LENGTH MM	KG/mtr.	QTY.	TOTAL WT. KG
8104	SHOULDER INSULATOR MOUNTING CHANNEL	75640	M.S.	590	5.7	1.860
8104	CLAMP FOR HANGER BOARD	70635	M.S.	610	0.706	1.860
816	TOP CLAMP FOR ANTICLIMBING DEVICE	46545	M.S.	395	1.60	2.805
817	BOTTOM CLAMP FOR ANTICLIMBING DEVICE	46545	M.S.	415	1.60	1.322
810F	CLAMP FOR STAY SET	56048	M.S.	306	3.14	2.805
832	CLAMP FOR SHOULDER INSULATOR CHANNEL	56048	M.S.	822	3.14	2.887
833	LUG CLAMP	59046	M.S.	324	1.445	2.805
830H	STEEL ROD	66666	M.S.	125	0.232	56.808
						160.81

	DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL WT.
NUTS & BOLTS	NUTS & BOLTS	M16		150	0.299	2N065	0.988
	NUTS & BOLTS	M16		65	0.164	6N065	0.844
NUTS & BOLTS	NUTS & BOLTS	M12		115	0.134	2N065	0.268
	NUTS & BOLTS	M12		80	0.102	2N065	0.204
NUTS & BOLTS	NUTS & BOLTS	M12		50	0.075	2N065	0.150
	NUTS & BOLTS	M10		60	0.055	4N065	0.220
NUTS & BOLTS	NUTS & BOLTS	M8		60	0.050	2N065	0.100
	NUTS & BOLTS	M8		60	0.050	2N065	0.100
SPRING WASHERS	SPRING WASHERS	M16		3.5 THIK.	0.099	8N065	0.072
	SPRING WASHERS	M12		3.5 THIK.	0.079	6N065	0.054
SPRING WASHERS	SPRING WASHERS	M10		3.5 THIK.	0.061	4N065	0.024
	SPRING WASHERS	M8		3.5 THIK.	0.023	2N065	0.012
PLAIN WASHER	PLAIN WASHER	M16		5.015	0.015	8N065	0.120
	PLAIN WASHER	M12		3.7THIK.	0.035	6N065	0.069
PLAIN WASHER	PLAIN WASHER	M10		3.7THIK.	0.035	4N065	0.020
	PLAIN WASHER	M8		3.7THIK.	0.034	2N065	0.090
TOTAL						2.976	

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

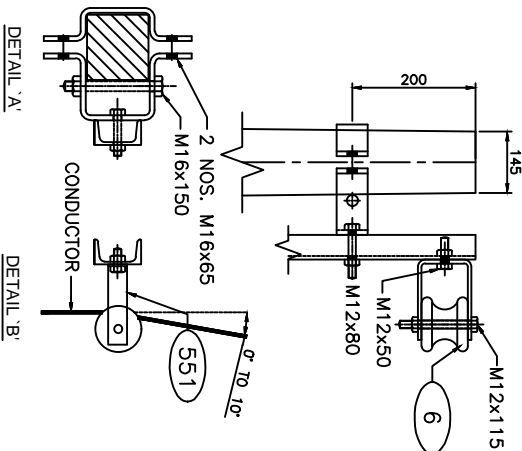
TITLE
GA OF LT LINE VERTICAL FORMATION ON SINGLE 8M/200 KG PSC POLE (AT ANGULAR LOCATION) 1Ph, 2WIRE

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

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

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE
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 CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1.



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

3 NOS

DRG. NO.

REC/RDSS/LT-OH/07A

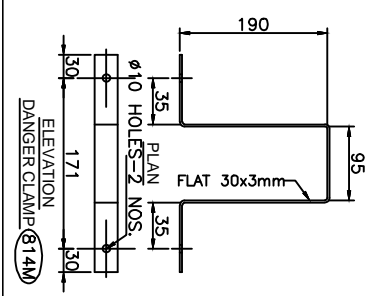
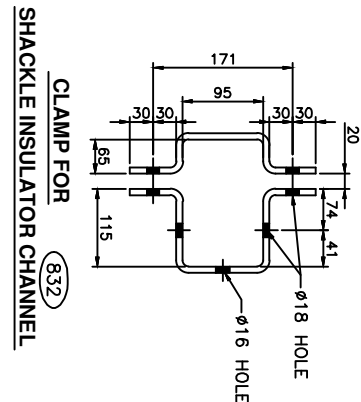
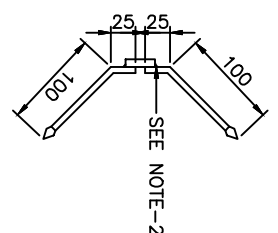
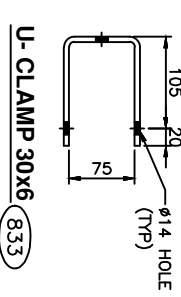
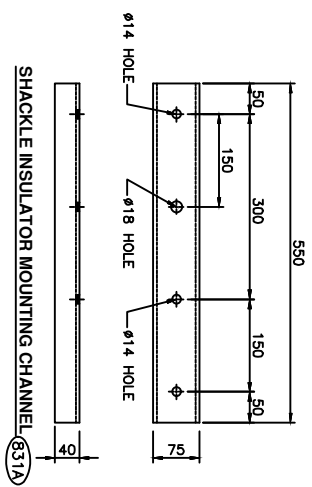
SHT. NO.

1 OF 2

REV. NO

0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mt.	QTY.	TOTAL Wt KG.
831A	SHACKLE INSULATOR MOUNTING CHANNEL	75x40	M.S.	550	5.7	1 NO.	3.135
814M	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO.	0.429
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
832	CLAMP FOR SHACKLE INSULATOR CHANNEL	50x8	M.S.	822	3.14	2 SET	5.162
833	U-CLAMP	30x6	M.S.	325	1.415	2 NOS.	0.919
	SPIKE	6mm ROD	M.S.	125	0.22	56 NOS.	1.540
TOTAL							13.771

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

GENERAL NOTES:
 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
 2) MANUFACTURING TOLERANCE:
 UPTO 50mm - ± 5%
 51 TO 100mm - ± 4%
 101 TO 300mm - ± 3%
 ABOVE 300mm - ± 2%

3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1.
 ALL CHANNELS SHALL BE IS:JC CHANNELS.

FOR TENDER PURPOSE ONLY

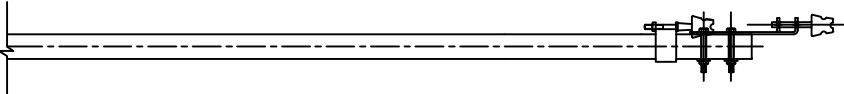
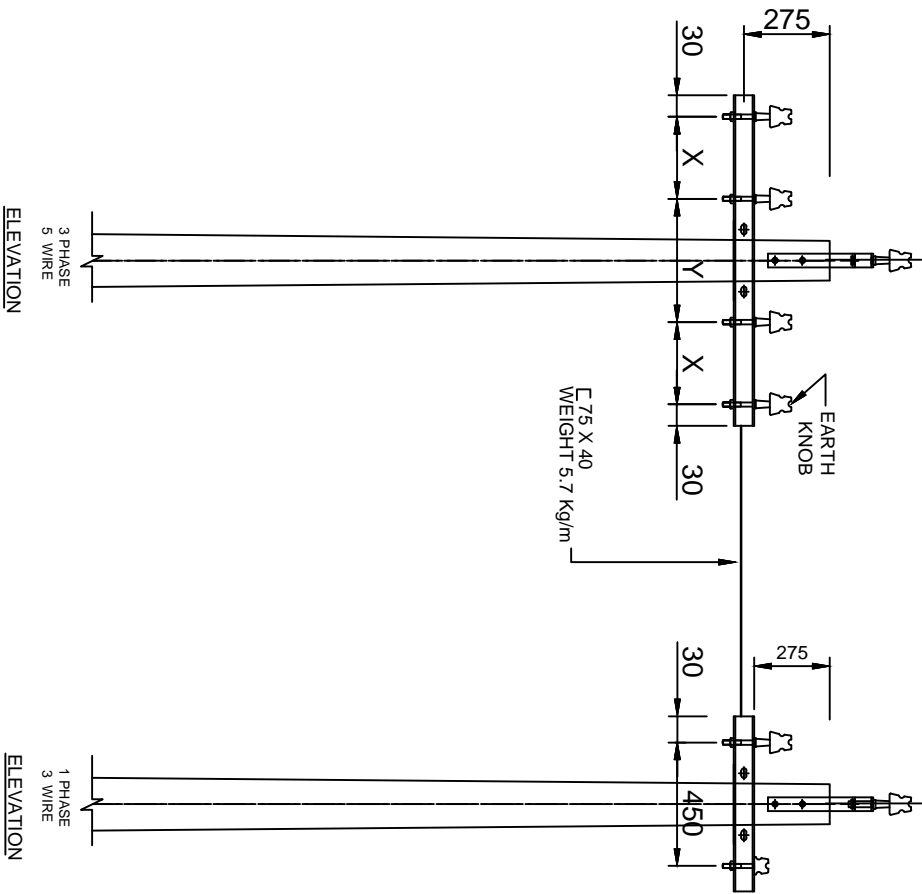
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

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

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



END VIEW

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

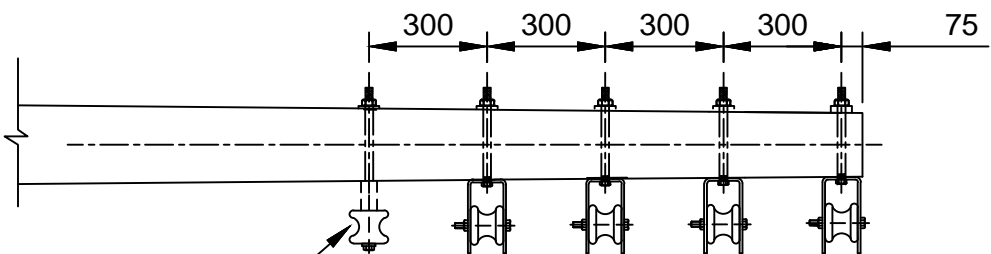
PROJECT:
Revamped Distribution Sector Scheme (RDSS)

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

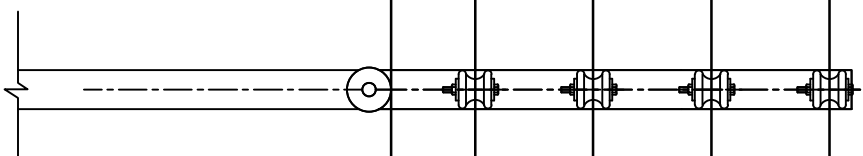
TANGENT LOCATION
MAXIMUM SPAN-57 MTRS.

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/08	1 OF 1	0



END VIEW



Rural Electrification Corporation Ltd.

TITLE
415 240V LINES CONDUCTOR FORMATION AND CLEARANCES Vertical Formation

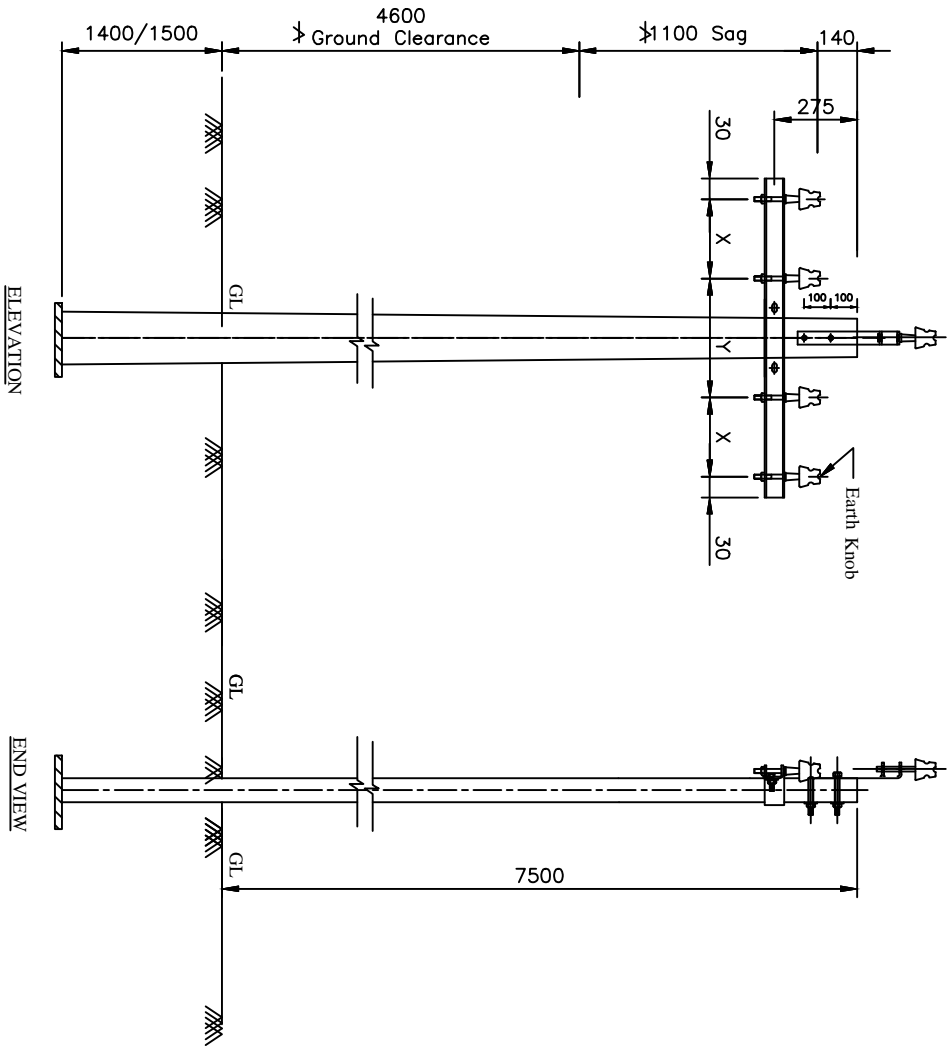
DRG. NO.

REC/ RDSS /LT-OH/09

10F1	0
------	---

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

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



Tangent Location
Maximum Span-67 Mtr.

Note:- All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

415/240V Line Supports Horizontal Formation

SIZE/SCALE DRG. NO.

A3 NTS

REC/RDSS/LT-OH/10

SHT. NO. REV. NO.

1 OF 1

0

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

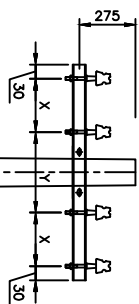


Figure-1

UP TO 40° for 7/2.11 mm & 7/2.59 ACSR
UP TO 45° for 7/2.35 mm ACSR

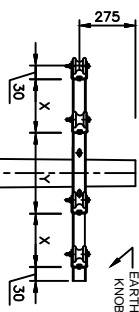


Figure-2

40° TO 30°

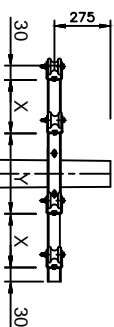


Figure-3

45° TO 60°

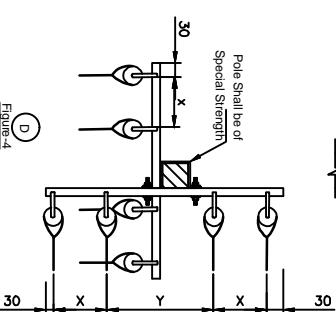
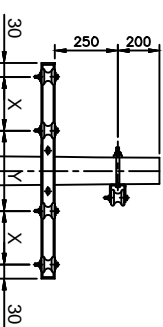


Figure-4

40° TO 90°

Horizontal Spacing	
X	Y
300	450

All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

SIZE/SCALE DRG. NO.

A3 NTS

REC/RDSS/LT-OH/11

SHT. NO. REV. NO.

1 OF 1

0

RO	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

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.

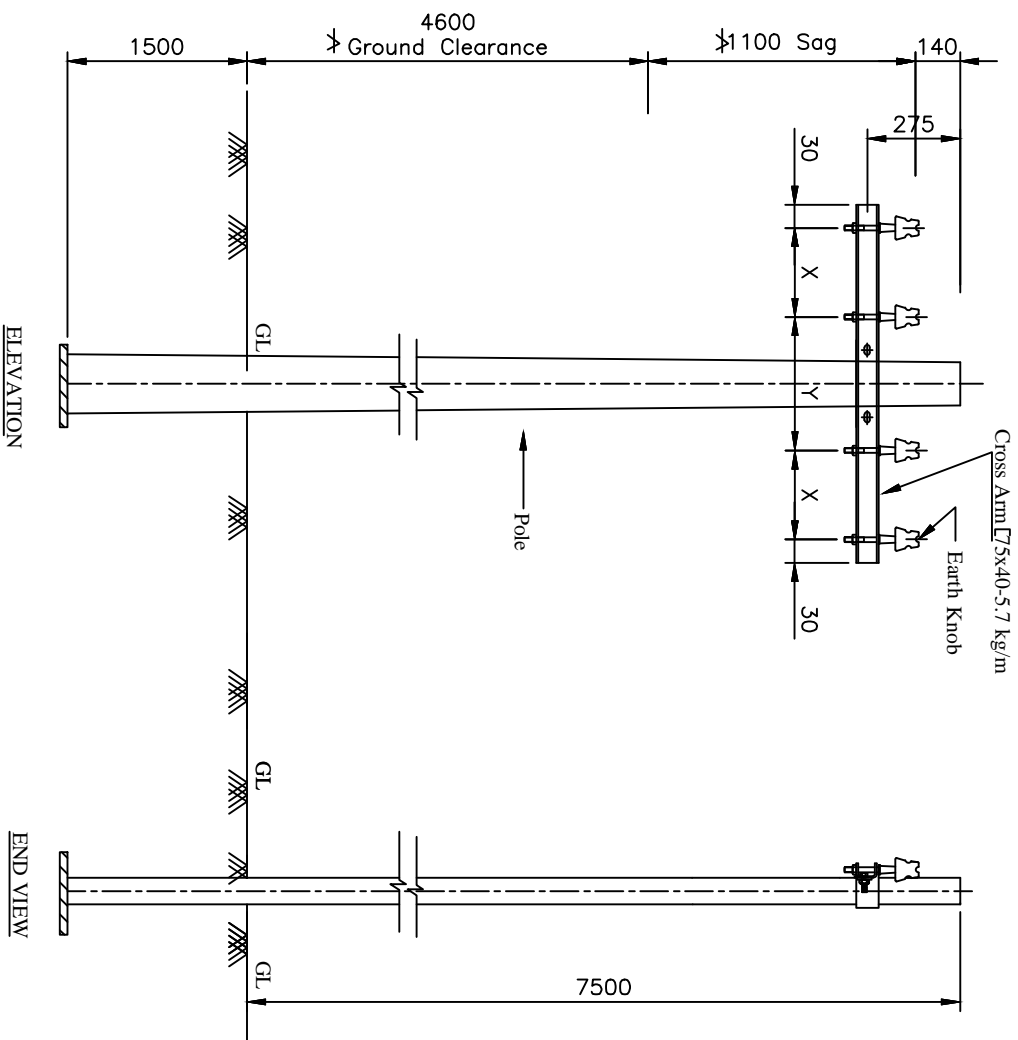
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE/SCALE DRG. NO.

A3 NTS REC/RDSS/LT-OH/12

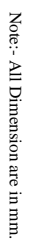
SHT. NO. REV. NO.
1 OF 1 0



Note:- All Dimension are in mm.

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

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



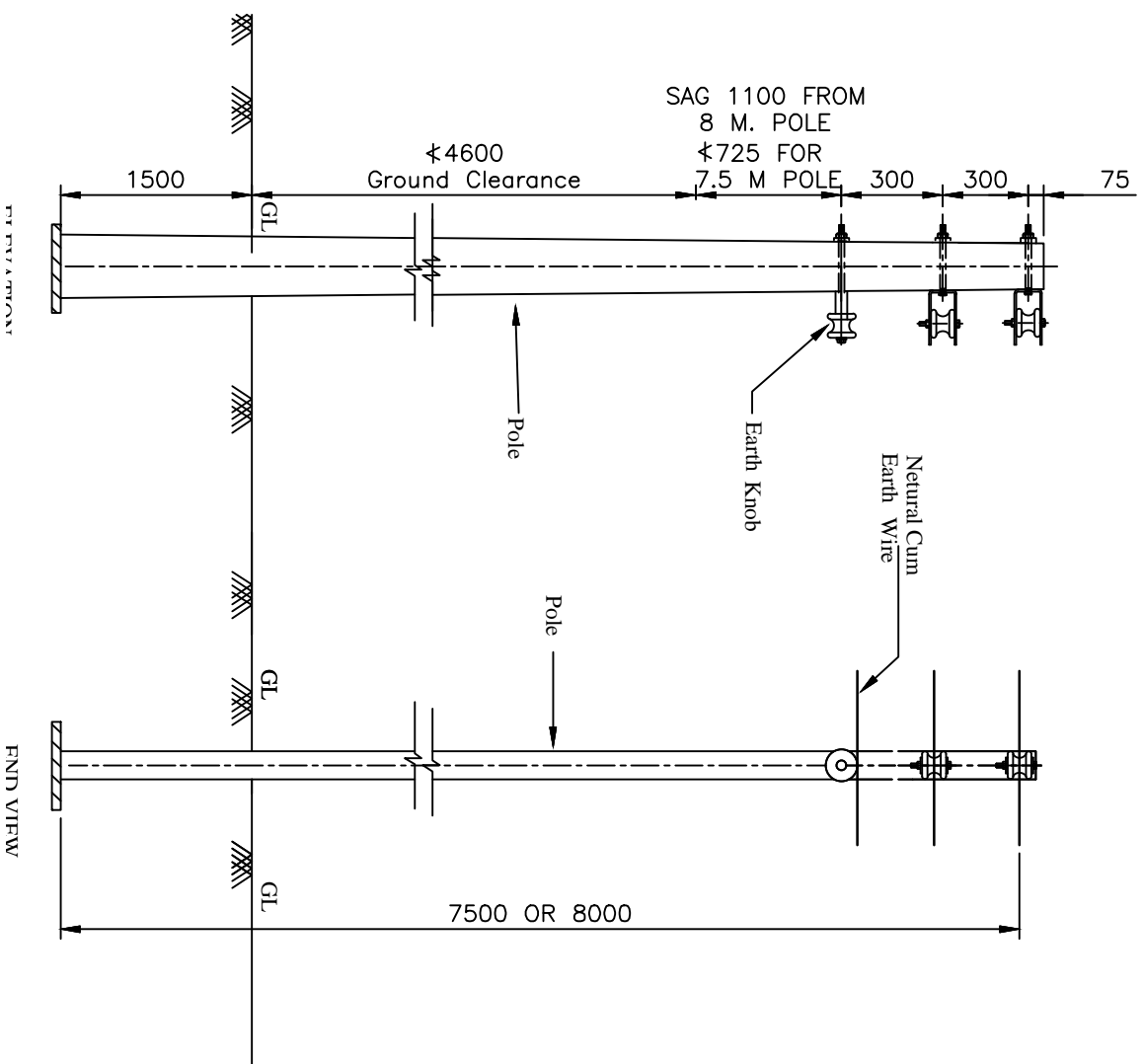
SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/RDSS/LT-OH/13	1 OF 1	0

Rural Electrification Corporation Ltd.

PROJECT:
Revamped Distribution Sector Scheme (RDSS)

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

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



Note:- All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

SIZE/SCALE

A3 MTS

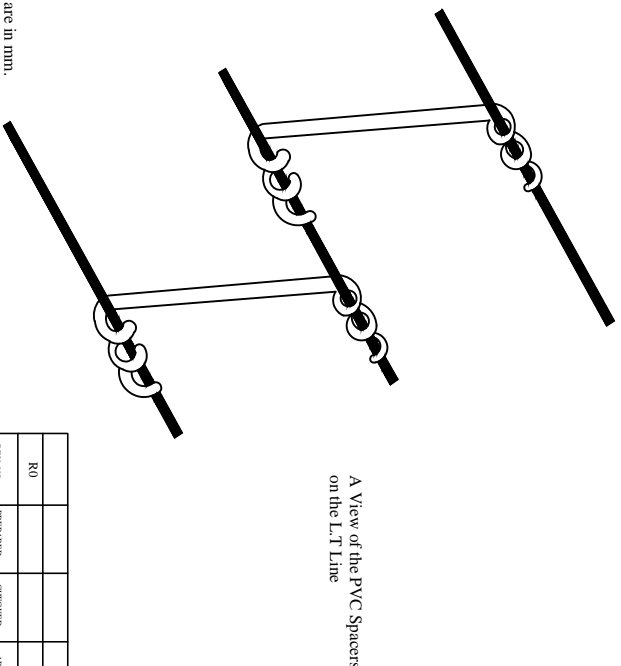
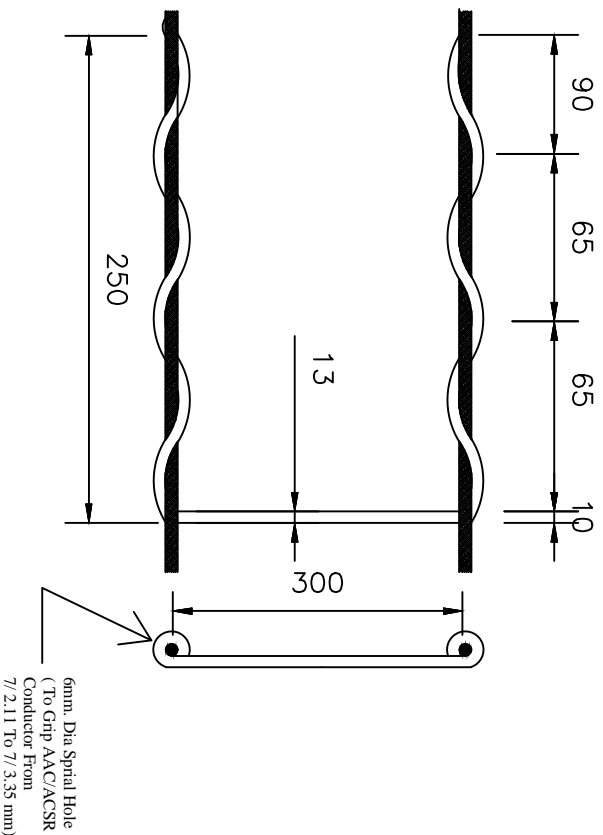
PRG. NO.

REC/RDSS/LT-OH/14

SHT. NO. REV. NO.

1 OF 1 0

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



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

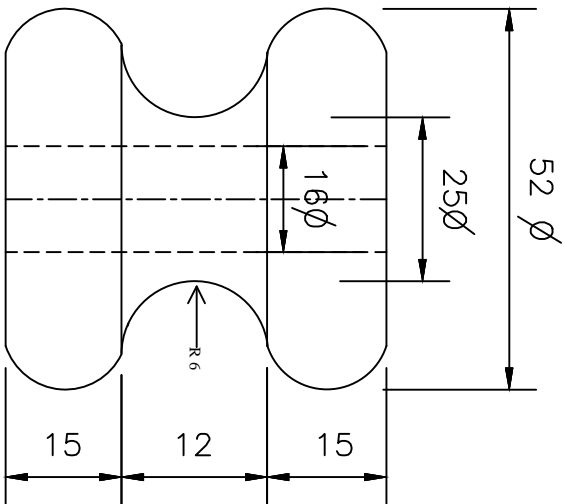
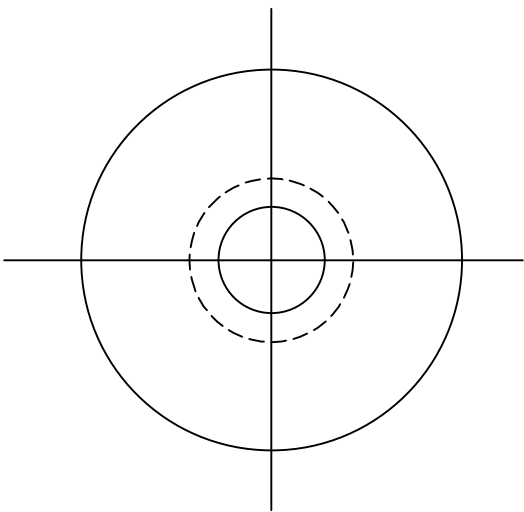
1. Dry Power Frequency Withstand Voltage 23KV.
- 2 Wet Power Frequency Withstand Voltage 10KV.
3. Three Specification Shall be Maintained At A Temp. of 70_2C For Period of 24 Hours. After This Treatment, The Specimens shall Not Show Any Deformity. And After Cooling ,shall Have A Minimum Tensile Strength 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

Rural Electrification Corporation Ltd.	
PROJECT: Revamped Distribution Sector Scheme (RDSS)	
TITLE: L.T Lines PVC Spacer	
SIZE/SCALE	PRG. NO.
A3 MTS	REC/RDSS/LT-OH/15
SHT. NO.	REV. NO.
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

SIZE/SCALE

PRG. NO.

SHT. NO. REV. NO.

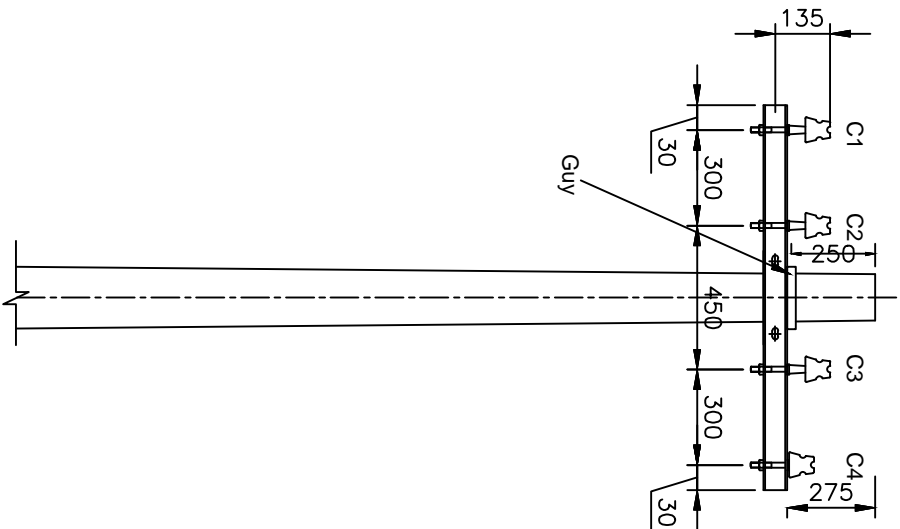
A3 MTS

REC/RDSS/LT-OH/16

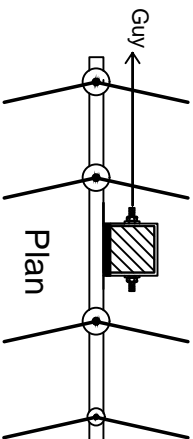
1 OF 1

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)

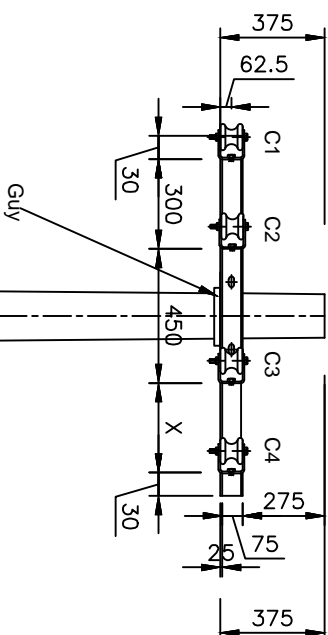
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A3 NTS

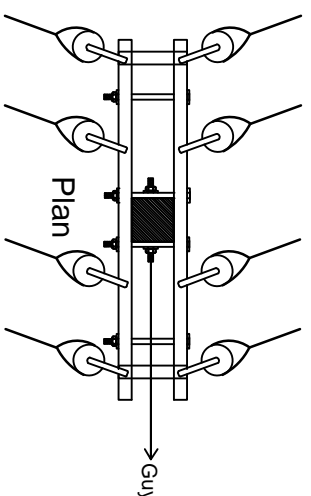
REC/RDSS/LT-OH/17

SHT. NO. REV. NO.

1 OF 1 0



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)

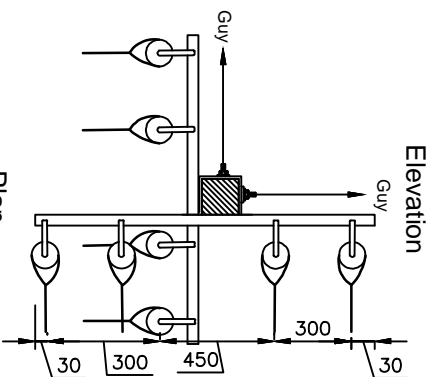
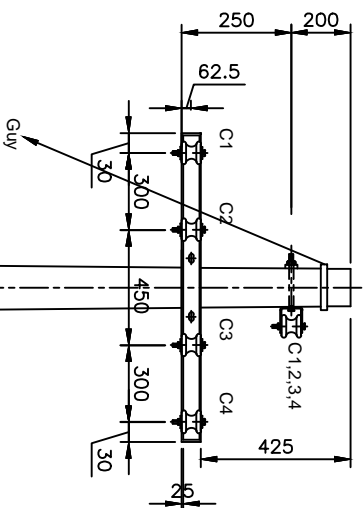
TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 30° TO 60° Angle Locations(3-Phase,4Wire,Horizontal Formation)

SIZE/SCALE: A3 MTS

REC/RDSS/LT-OH/18

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:-

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

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

SIZE/SCALE DRG. NO.

A3 NTS

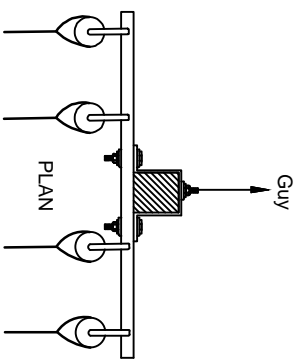
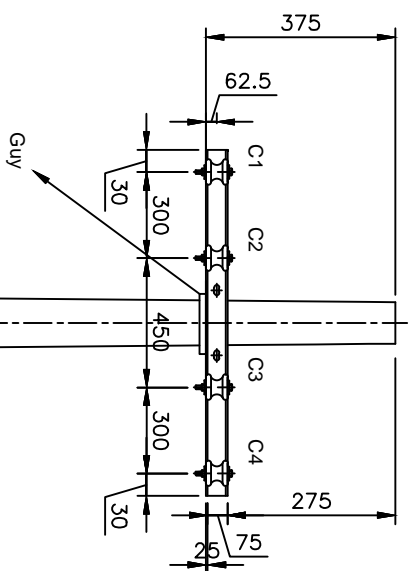
REC/RDSS/LT-OH/19

SHT. NO. REV. NO.

1 OF 1

0

Note:- All Dimension are in mm.



NOTES:-

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

NOTATIONS:-

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

FOR TENDER PURPOSE ONLY

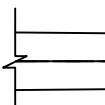
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

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

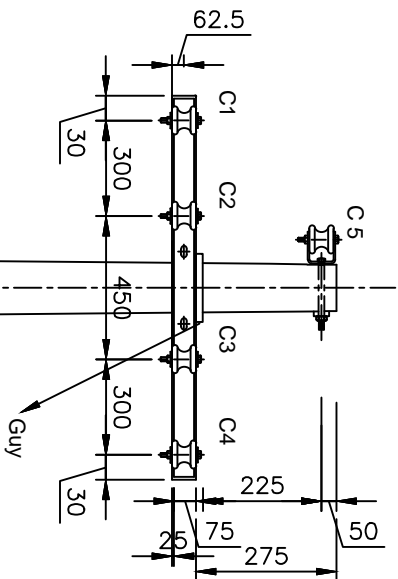
RD	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
REV. NO.					

Note:- All Dimension are in mm.

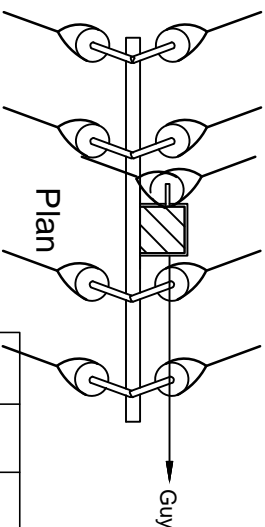


FOR TENDER PURPOSE ONLY

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



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,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 10kV TO 30 Angle Locations(3-Phase,5Wire,Horizontal Formation)

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

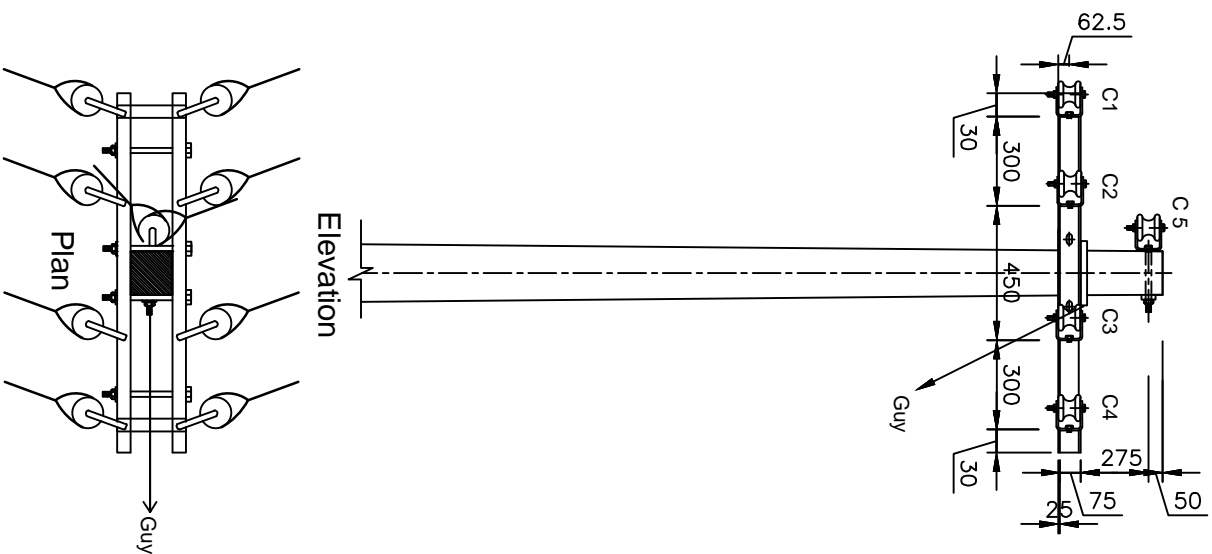
A3 MTS

REC/RDSS/LT-OH/22

1 OF 1

0

Note:- All Dimension are in mm.



NOTES:-

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

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

Elevation

Plan

Guy

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

SIZE/SCALE DRG. NO.

A3 NTS

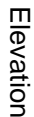
REC/RDSS/LT-OH/23

SHT. NO. REV. NO.

1 OF 1

0

Note:- All Dimension are in mm.



Plan

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

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

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

A3	NTS
	REC/RDSS/LT-OH/24

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

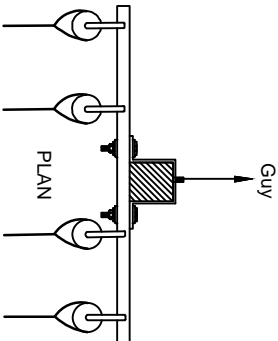
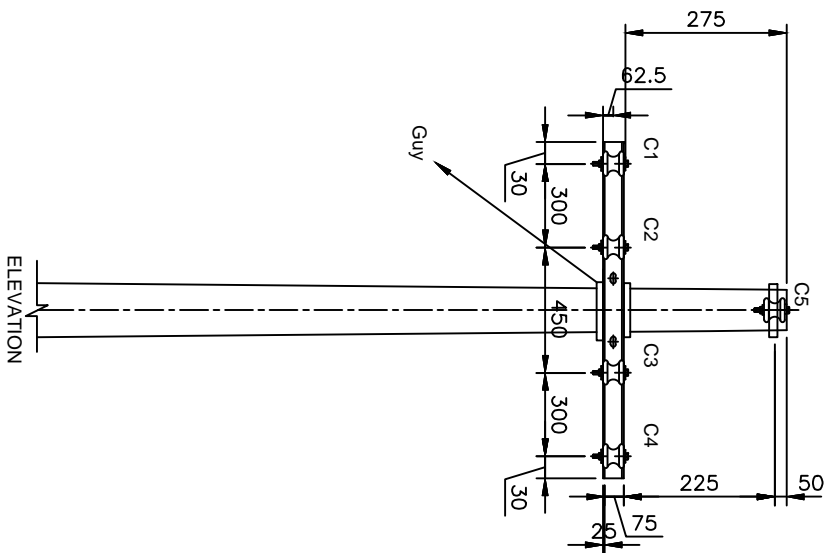
1 OF 1	0
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NOTES:-

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



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,5-Wire,Horizontal Formation)

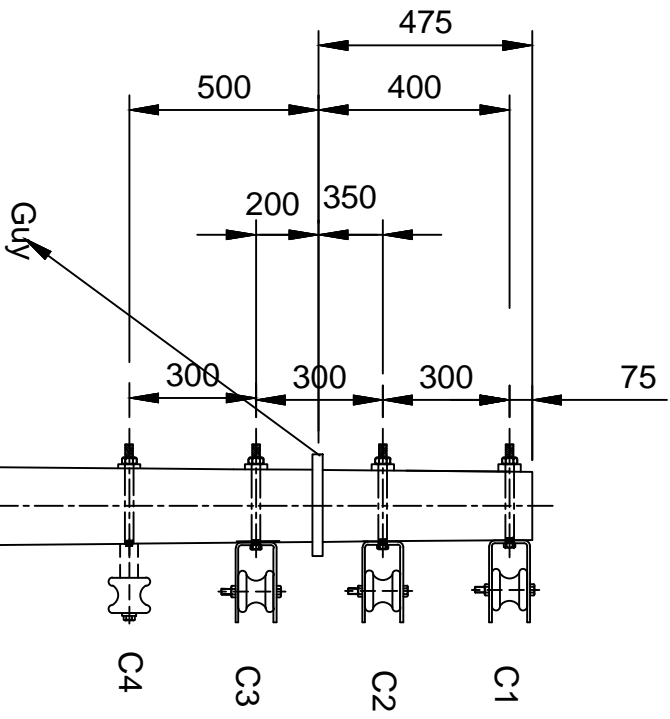
SIZE/SCALE DRG. NO.

A3 NTS REC/RDSS/LT-OH/25

SHT. NO. REV. NO.

1 OF 1 0

Note:- All Dimension are in mm.



NOTES:-

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

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE:

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

SIZE/SCALE DRG. NO.

A3 NTS

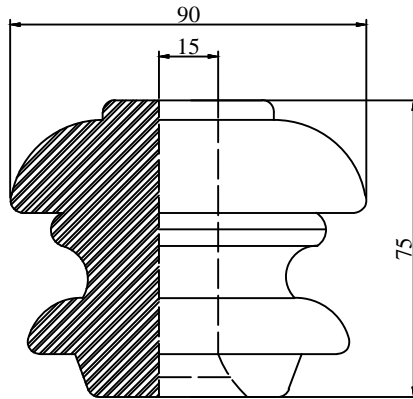
REC/RDSS/LT-OH/27

SHT. NO. REV. NO.

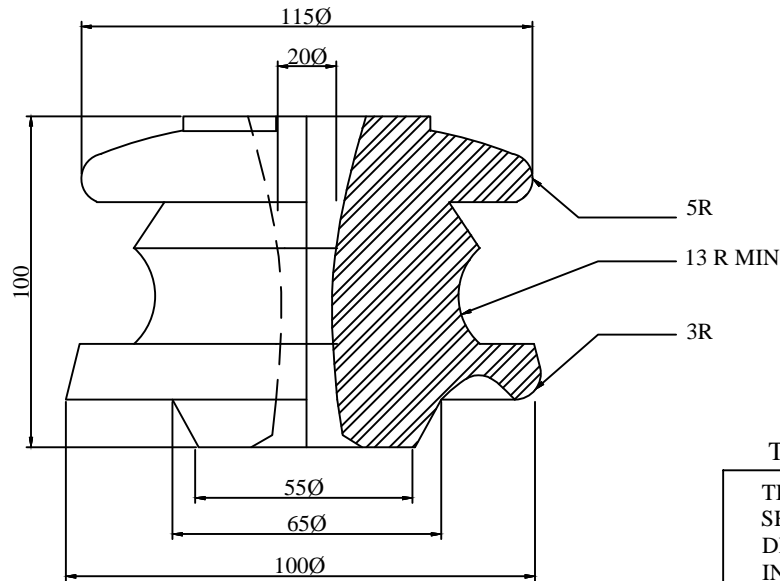
1 OF 1

0

Note:- All Dimension are in mm.



TYPE-1



TYPE - 2

TENDER DRAWING

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

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

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

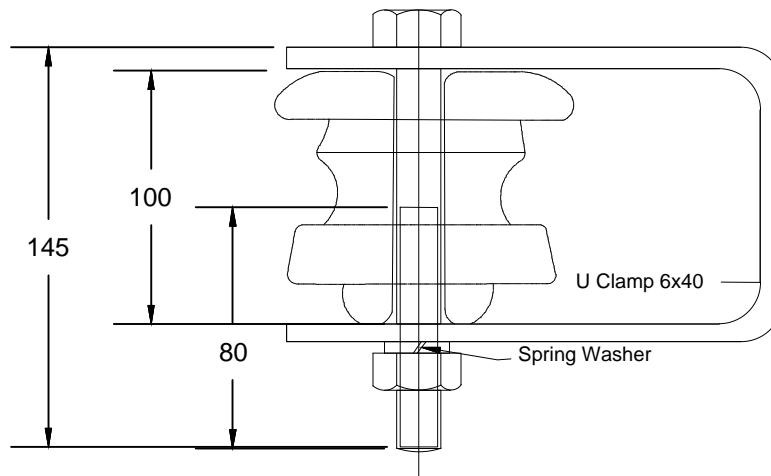
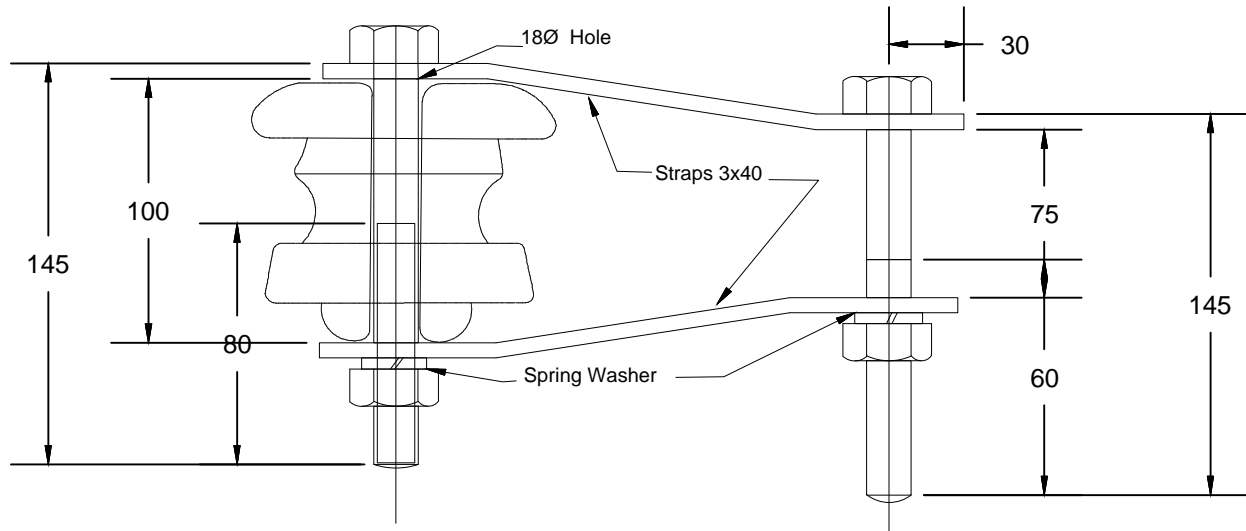
Revamped Distribution Sector Scheme (RDSS)

TITLE

415/240 V Shackle Insulators

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

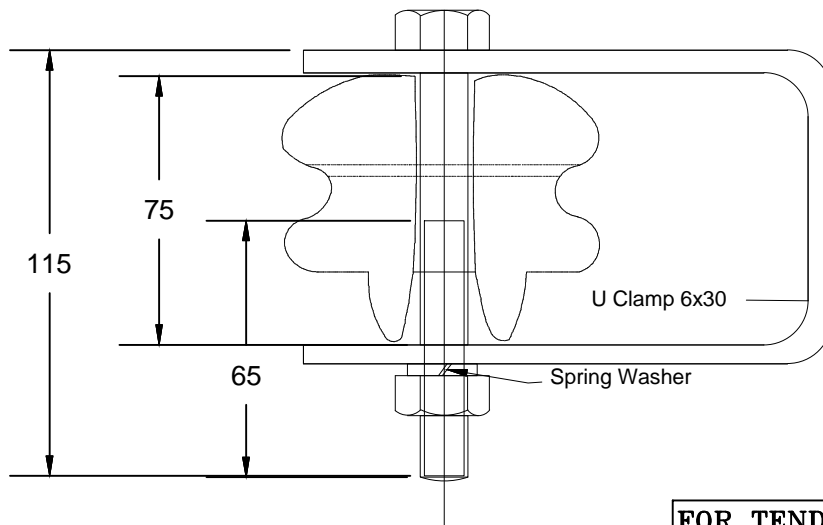
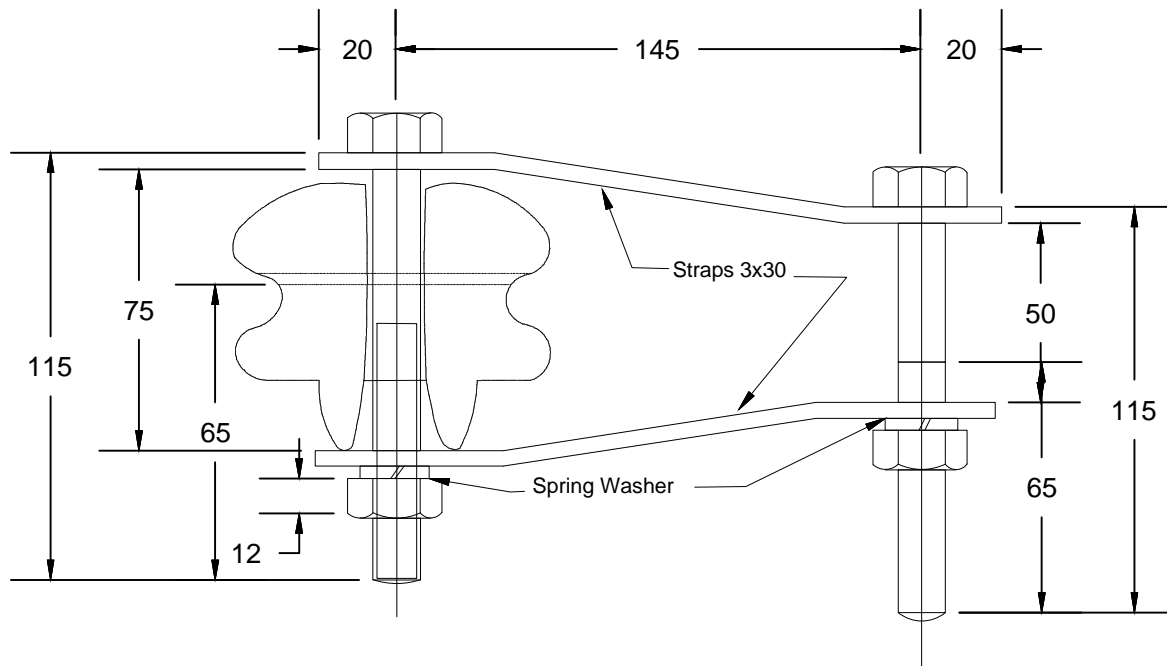
Revamped Distribution Sector Scheme (RDSS)

TITLE

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

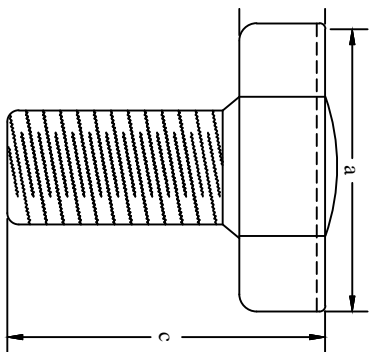
Revamped Distribution Sector Scheme (RDSS)

TITLE

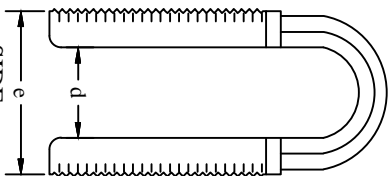
415/240V Insulators & Hardware Fitting
For Type-I Shackle Insulator

RO	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

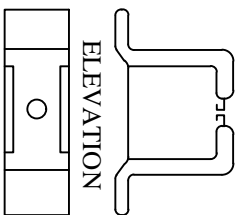
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/30	1 OF 1	0



ELEVATION



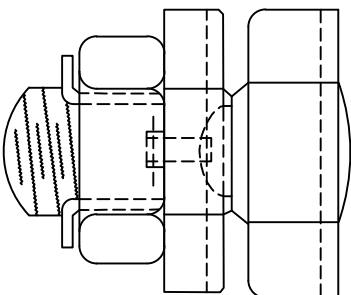
SIDE



ELEVATION

PLAN

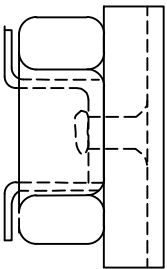
DETAIL 'A'



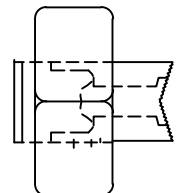
CONNECTOR ASSEMBLY

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

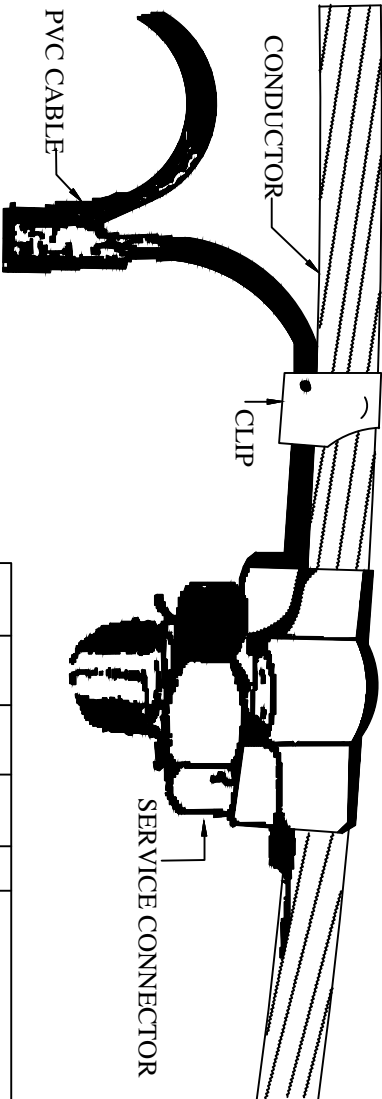
TYPE	DIMENSIONS					APPLICATIONS
	a	b	c	d	e	
A	36	12	35	10.5	21	LINE CONDUCTORS 30 mm ² ACSR AND 50 mm ² ACSR/AAC (WEASEL, RABBIT AND ANT) 20 mm ² ACSR, 30 mm ² ACSR AND 25 mm ² AAC (SQUIRREL, WEASEL AND GNAT)
B	30	12	30	8	16	25 mm ² TO 10 mm ² ALUMINIUM CABLE



ELEVATION



SIDE



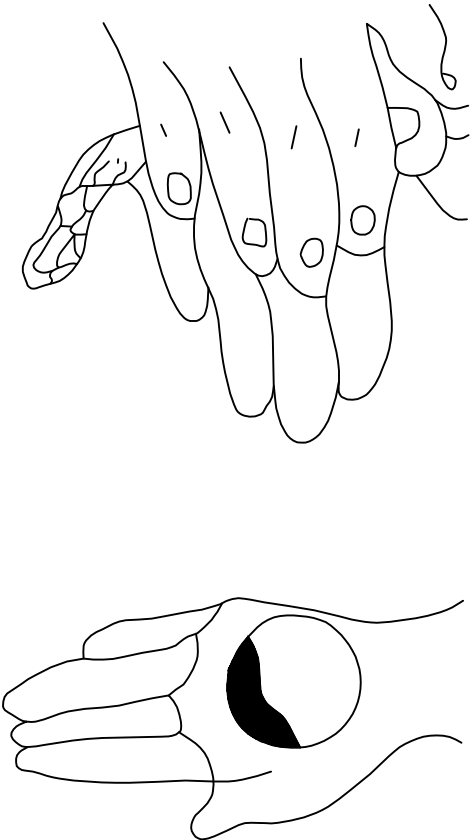
ALL DIMENSION ARE IN MM.

FOR TENDER PURPOSE ONLY

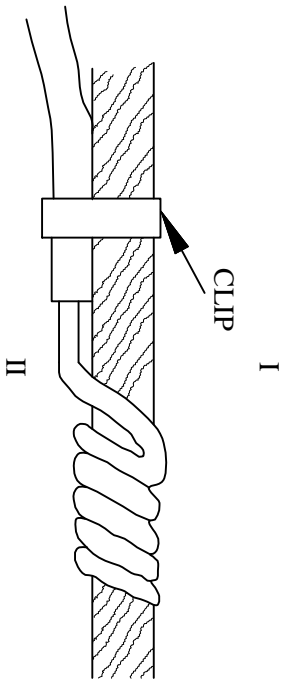
Rural Electrification Corporation Ltd.
Revamped Distribution Sector Scheme (RDSS)

Finished Joint Using Service Connector

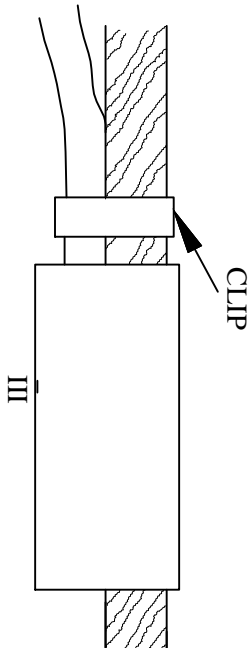
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/RDSS/LT-OH/31	1 OF 1	0



STEP: 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

R0					
REV. NO.	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

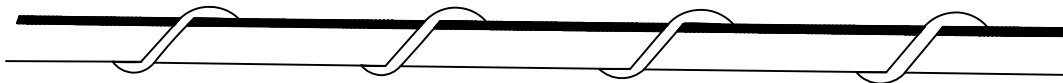


FIGURE-II

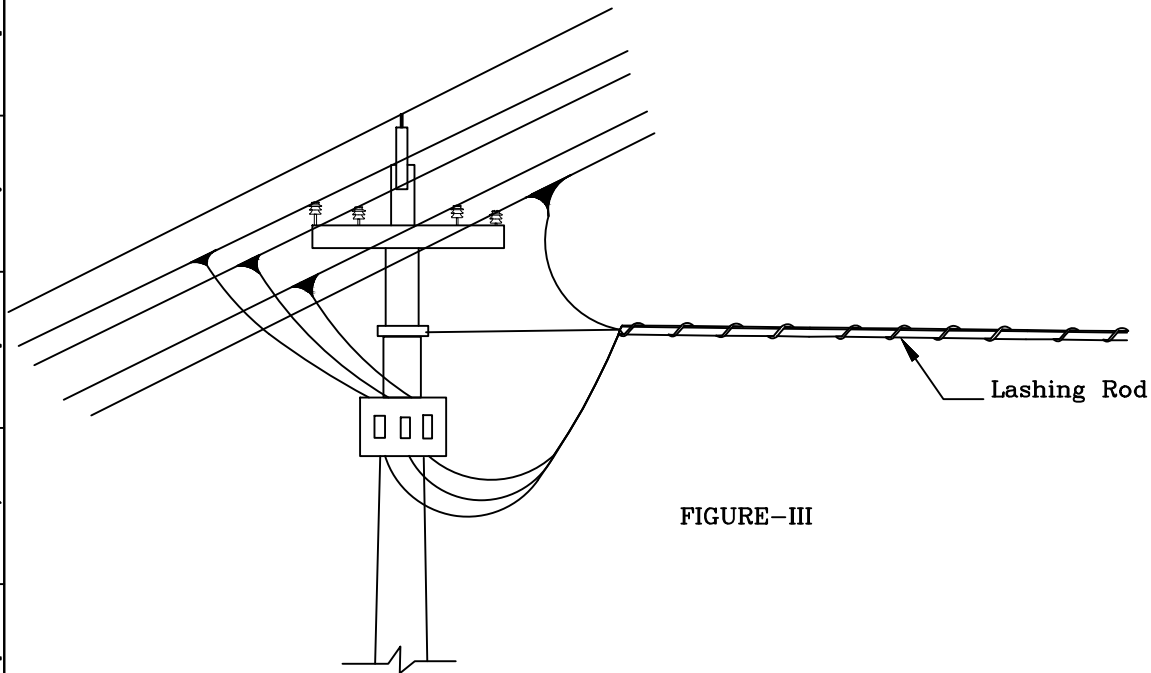


FIGURE-III

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

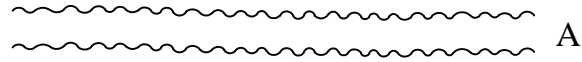
Revamped Distribution Sector Scheme (RDSS)

TITLE

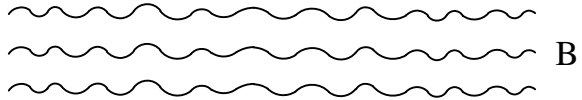
Helically Formed Fittings Lashing Rods

RO	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

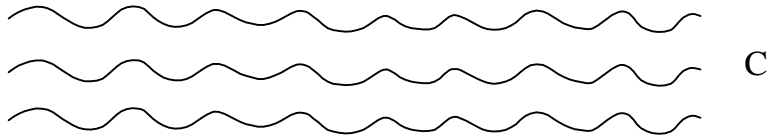
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS /LT-OH/33	1 OF 1	0



A



B



C

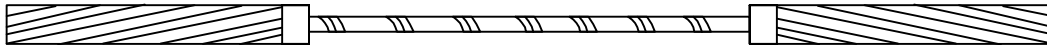


FIGURE-1



FIGURE-2

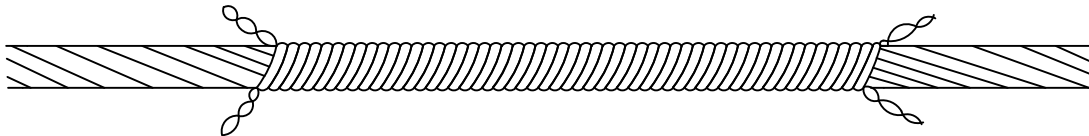


FIGURE-3

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

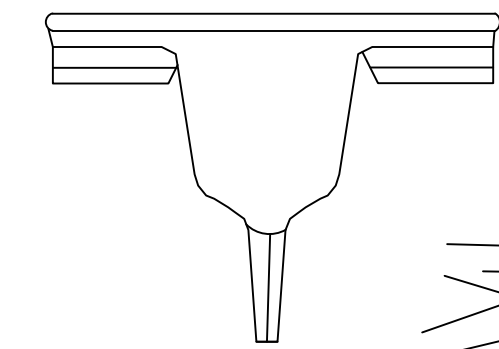
Revamped Distribution Sector Scheme (RDSS)

TITLE

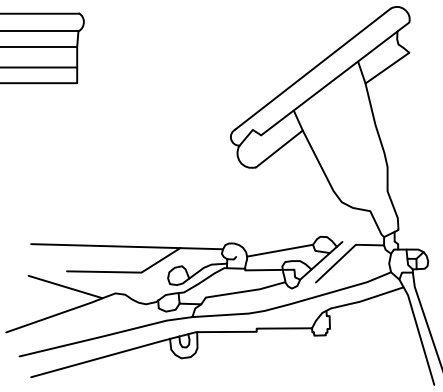
Helically Formed Fittings Splice For ACSR Joints

R0	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

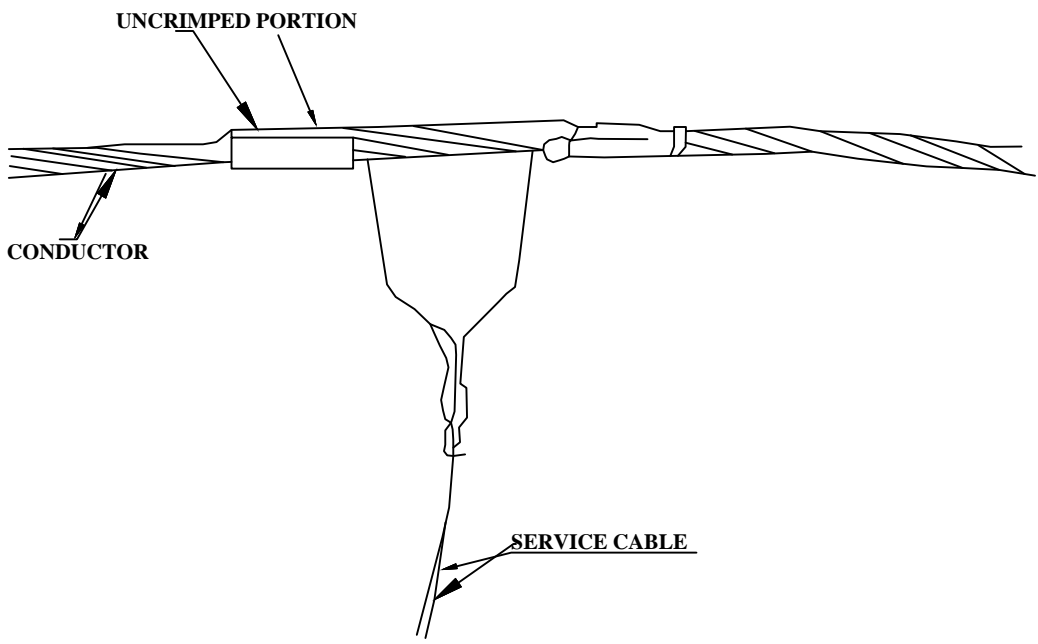
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/RDSS/LT-OH/35	1 OF 1	0



SERVICE CONNECTOR



APPLICATION OF CRIMPING TOOL



A VIEW OF CRIMPED SERVICE CONNECTOR (PARTLY CRIMPED)

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

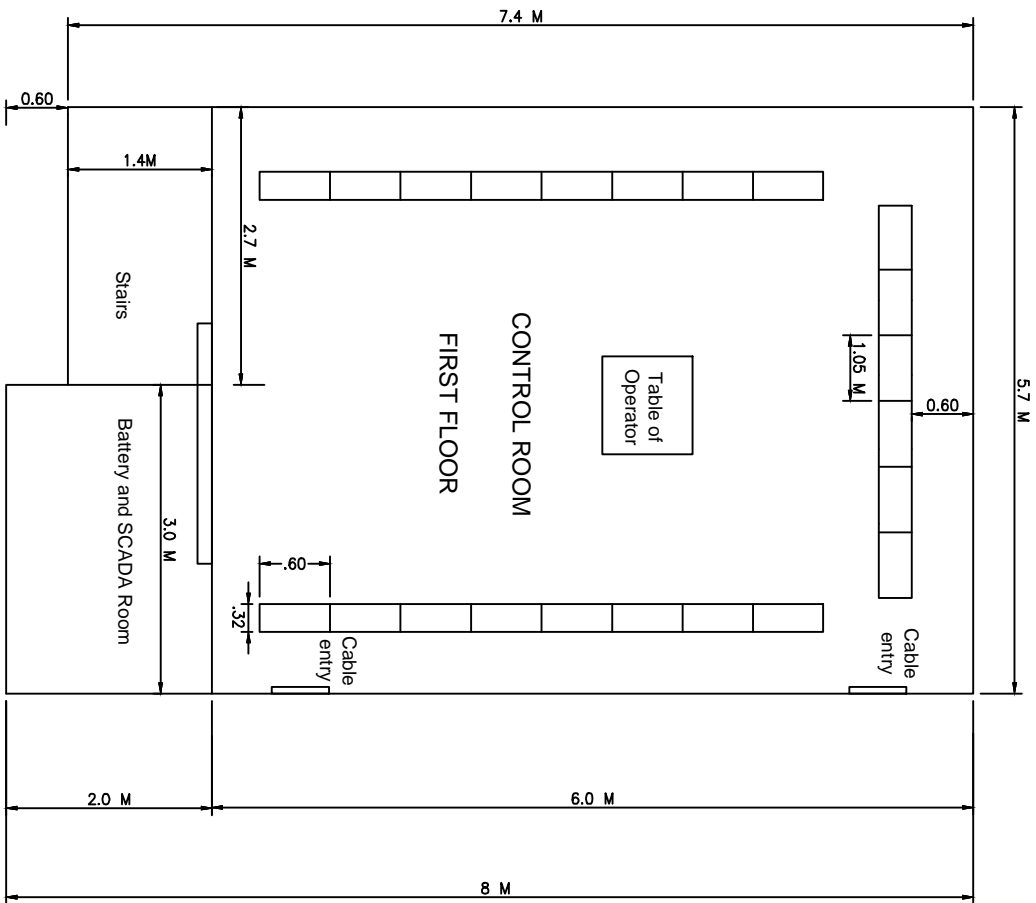
Revamped Distribution Sector Scheme (RDSS)

TITLE

CRIMPED JOINT FOR L.T. SERVICE CONNECTION

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



EXTENDED GALLERY
FOR BATTERY ROOM


FOR TENDER PURPOSE ONLY

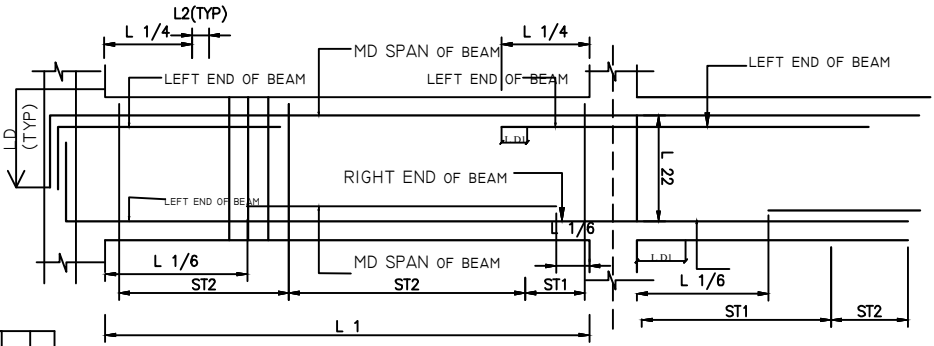
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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

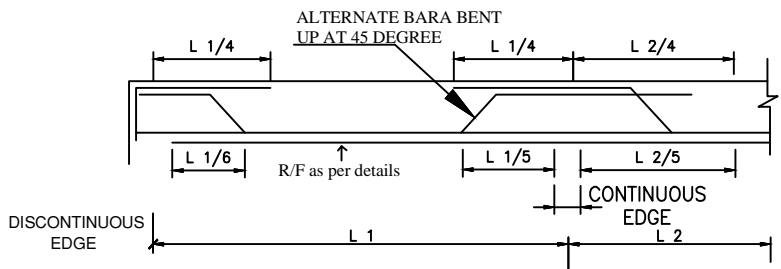
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/Control Room/01B	1 OF 1	0



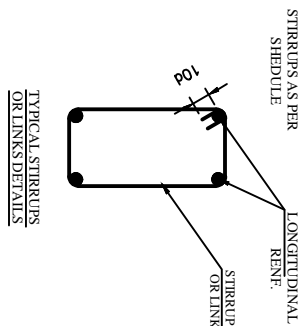
		
ఆంధ్ర ప్రదేశ్ రూరల్ విద్యుత్ సరఫరా సంస్థ		
PROJECT:		
Revamped Distribution Sector Scheme (RDSS)		
TITLE:		
Proposed Double story Control Room Layout plan of 33 /11 KV substation in CITY/TOWN ZONE		
SIZE	SCALE	DRG. NO.
A4	1:100	REC/RDSS/Control Room/01C
		SHT. NO
		REV. NO.
		1 OF 1
		0



TYPICAL SECTION OF BEAM



TYPICAL R/F DETAILS OF SLAB

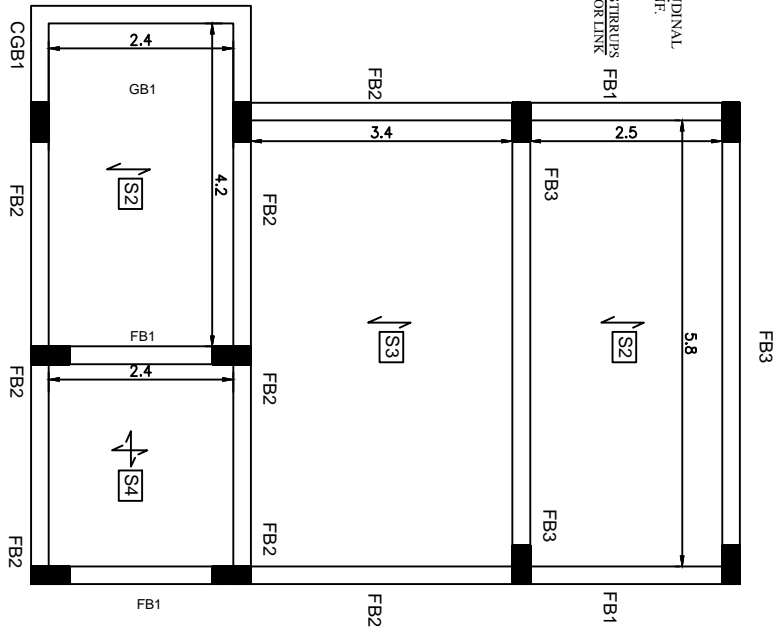


DEVELOPMENT LENGTH 'LD'	LD FOR HYSD BARS WITH
CONCRETE GRADE	E _s =415 N/MM ²
M-20	Ld
	47X DLA

S.R. NO.	BEAM	SIZE	CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SUPP.	AT SUPP.	AT MID SUPP.
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	200X320	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	8mm@ 175c/c	8mm@ 225c/c

GROUND FLOOR SLAB BEAM DETAILS

FIRST FLOOR SLAB BEAM PLAN



SCHEDULE OF GROUND FLOOR ROOF SLAB:

S.R. NO.	SLAB MARKED	THK	ALONG SHORT SPAN	ALONG LONG SPAN	EXTRA SUPPORT ON TOP	REMARKS
1.	S2	120	10T-18 C/C	8T-200 C/C	10T-390 C/C	ONE WAY
2.	S3	120	10T-18 C/C	10T-175 C/C	10T-300 C/C	ONE WAY
3.	S4	120	8T-18 C/C	8T-175 C/C	8T-350 C/C	ONE WAY

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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

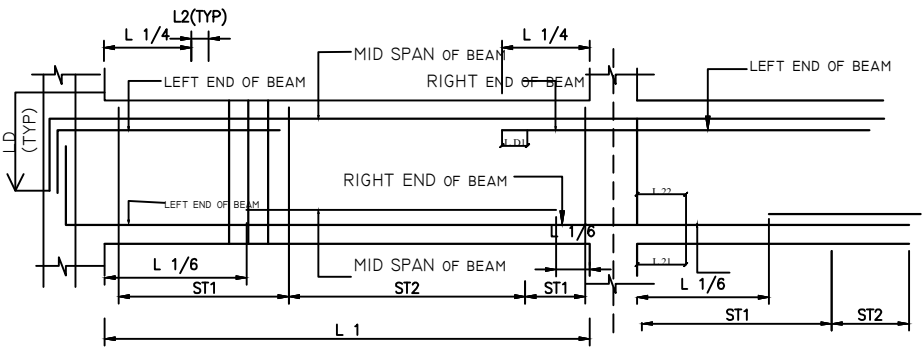
FIRST FLOOR SLAB BEAM & DETAILS

Revamped Distribution Sector Scheme (RDSS)

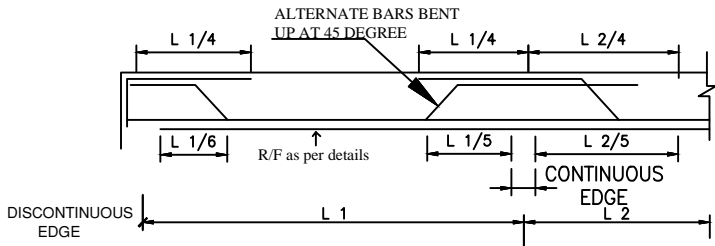


Rural Electrification Corporation Ltd.

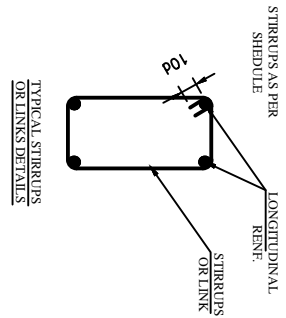
FOR TENDER PURPOSE ONLY



TYPICAL SECTION OF BEAM



TYPICAL R/F DETAILS OF SLAB



DEVELOPMENT LENGTH, 'LD'	
FOR HYSD BARS WITH	
fy=415 N/mm ²	
CONCRETE GRADE	M-20
	47X DLA

SR. NO.	BEAM	SIZE	CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SPAN	AT SUPP.	AT MID SPAN
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	200X520	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	2-20 mm ϕ	8mm @ 150c/c	8mm @ 200c/c

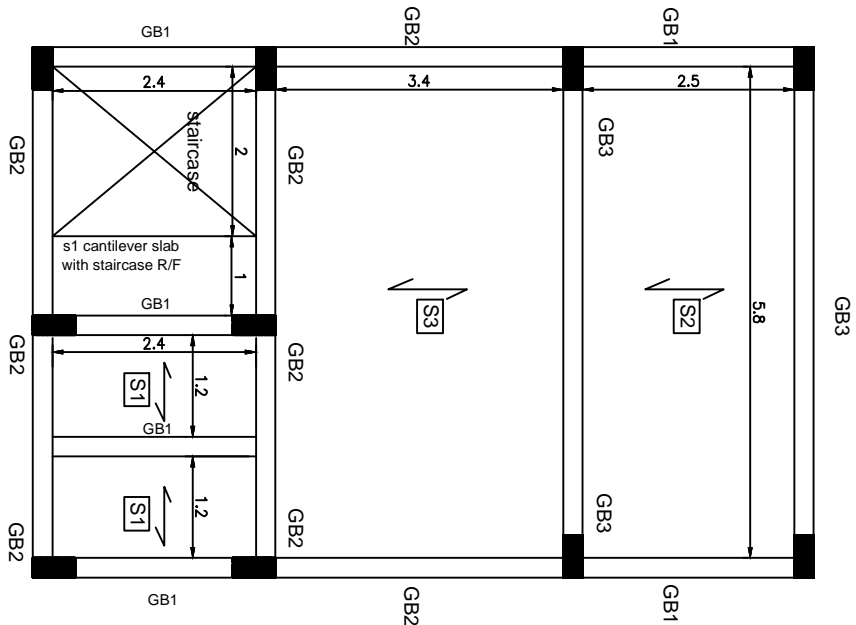
GROUND FLOOR SLAB BEAM DETAILS

SR. NO.	SLAB MARKED	THK.	ALONG SHORT SPAN	ALONG LONG SPAN	EXTRA SUPPORT ON TOP	ALONG SHORT SPAN	ALONG LONG SPAN	REMARKS
1.	S1	120	8T-175 C/C	8T-225 C/C	8T-350 C/C	—	—	ONE WAY
2.	S2	120	10T-175 C/C	8T-200 C/C	10T-300 C/C	—	—	ONE WAY
3.	S3	120	10T-150 C/C	10T-175 C/C	10T-350 C/C	—	—	ONE WAY

SCHEDULE OF GROUND FLOOR ROOF SLAB:

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

GROUND FLOOR SLAB BEAM PLAN



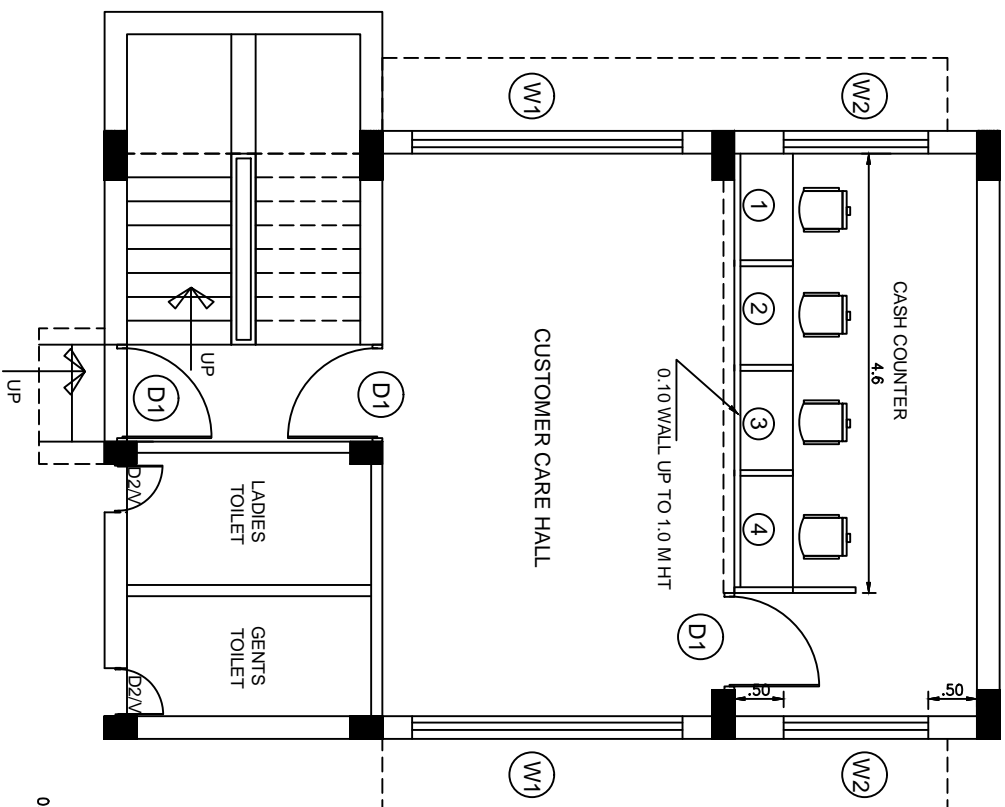
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

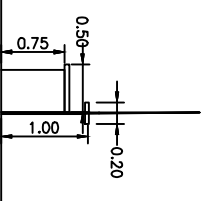
Revamped Distribution Sector Scheme (RDSS)

GROUND FLOOR SLAB BEAM & DETAILS

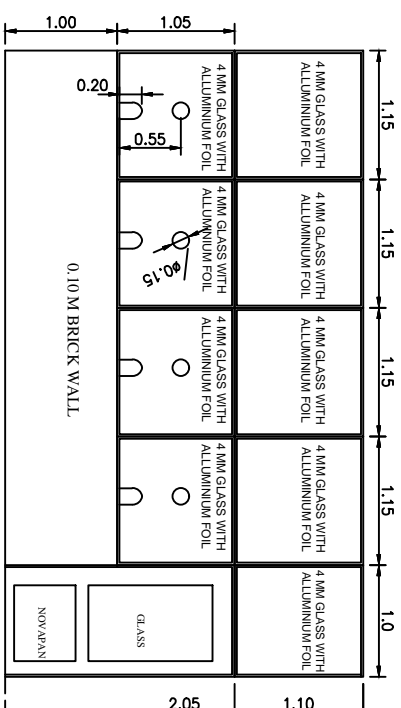
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/CIVIL/02	1 OF 1	0



GROUND FLOOR WORKING PLAN



SECTION



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.

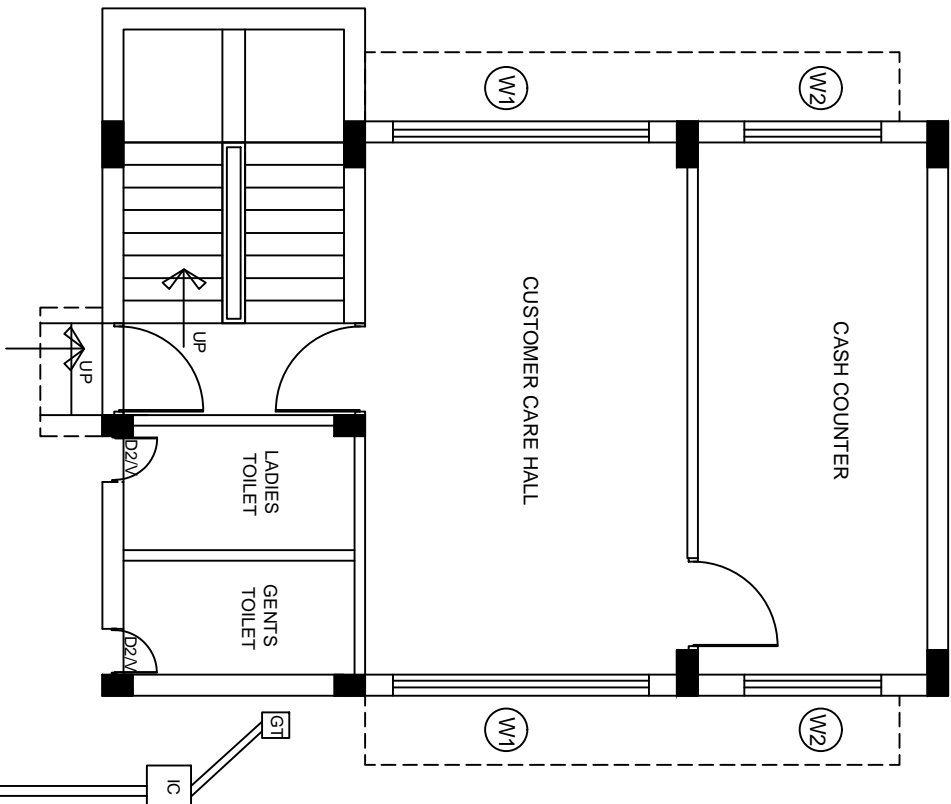
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE

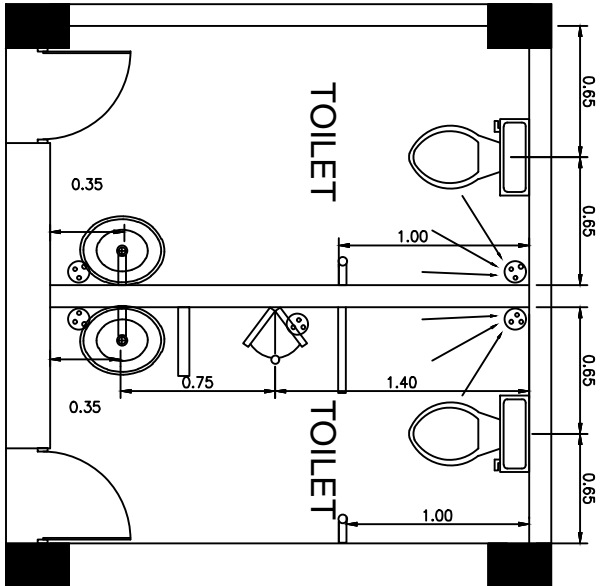
GROUND FLOOR COUNTER ALUMINIUM PARTITION DRAWING

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/CIVIL/03	1 OF 1	0



GROUND FLOOR TOILET LAYOUT



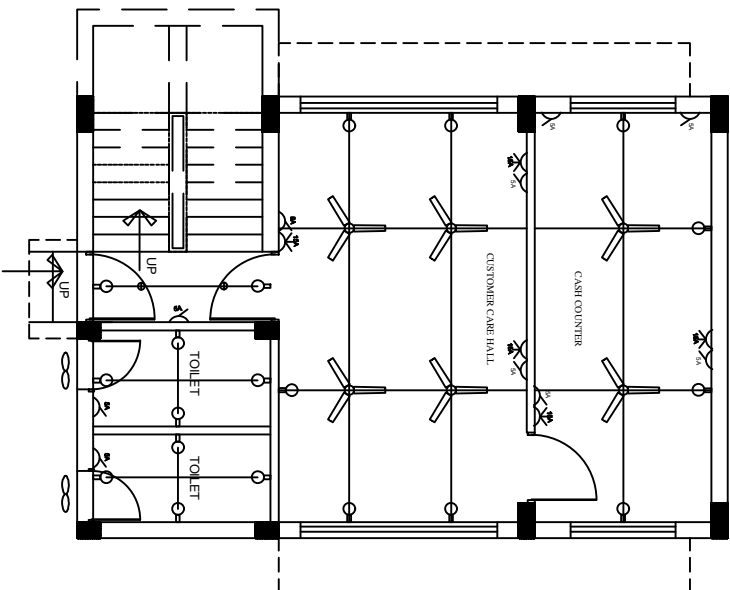
TOILET DETAILS (1:20)

FOR TENDER PURPOSE ONLY

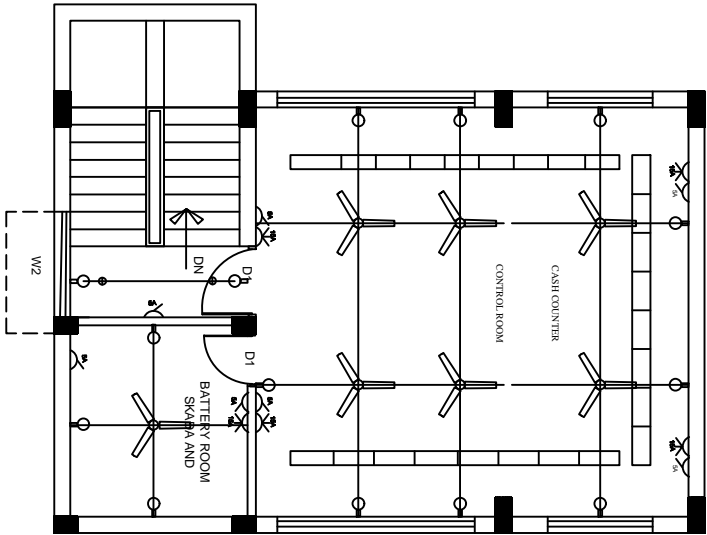
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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		CEILING POINT
	FAN POINT		BELL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

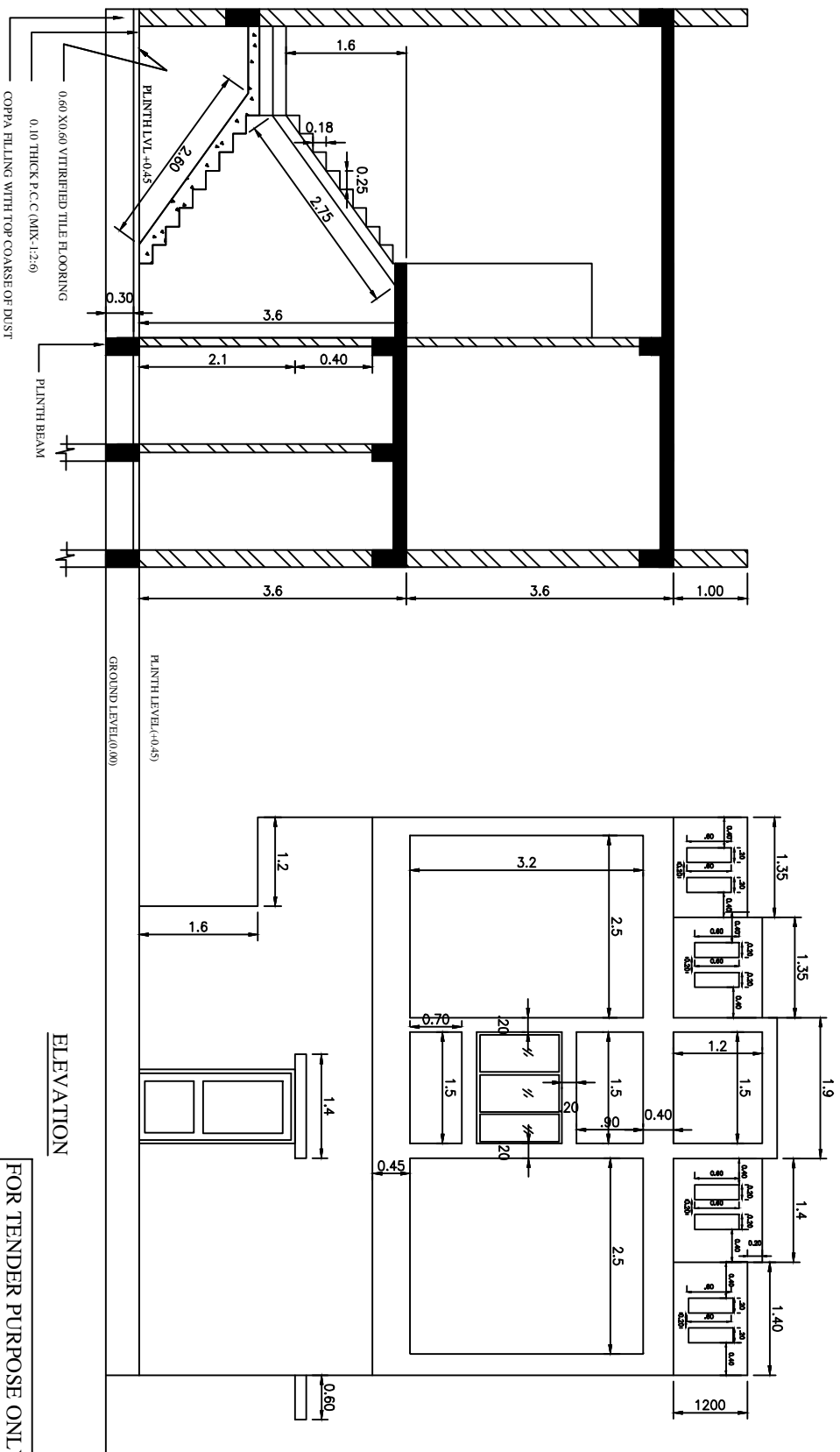
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

GROUND & FIRST FLOOR ELECTRICAL LAYOUT

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



Rural Electrification Corporation Ltd.

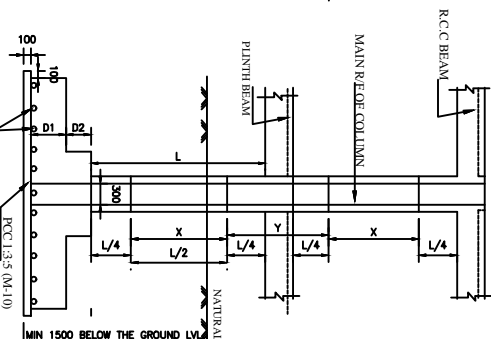
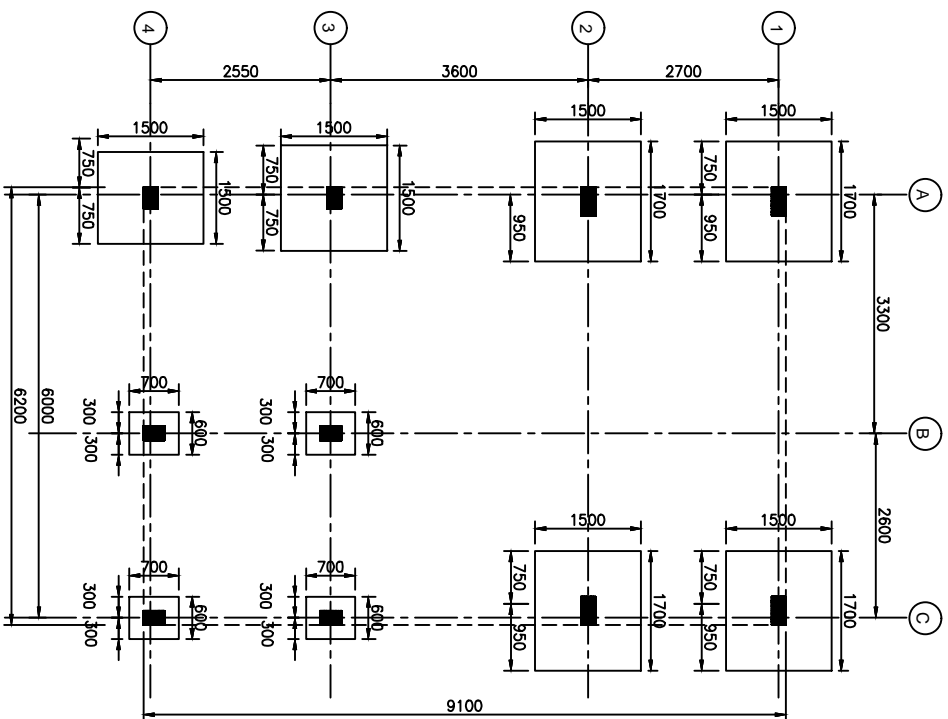
PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

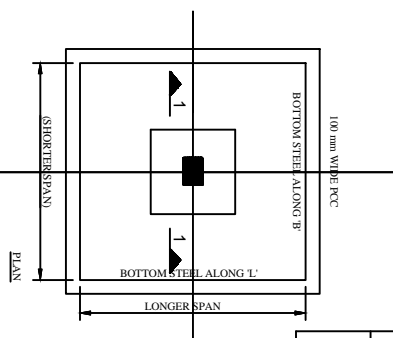
ELEVATION & SECTION - XX

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



SCHEDULE OF FOOTING

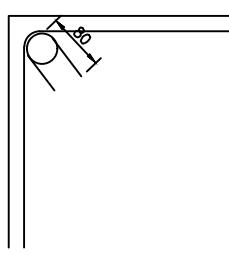
SR. NO.	COLUMN	FOOTING TYPE	EXCAVATION DIMENSION		FOOTING DIMENSION		FOOTING REINFORCEMENT			
			WIDTH	LENGTH	STEP	WIDTH/LENGTH	Q1	Q2	ALONG B	ALONG L
F1	C1	STEPPED	1300	1500	1	1100 1300	300		10mmφ50mm/c	10mmφ50mm/c
					2	800 700		280		
F2	C2	STEPPED	1600	1700	1	1300 1600	300		10mmφ50mm/c	10mmφ50mm/c
					2	700 900		300		



TYPICAL STEPPED FOOTING DETAIL

DEVELOPMENT LENGTH, L _d	FOR HYSD BARS WITH
EX-1 IS 456:2000	CONCRETE GRADE
M-20	47X D.I.A

TYPICAL DETAIL OF RING HOOK



SCHEDULE OF COLUMNS

SR. NO.	MARKED	DIMENSIONS		REINFORCEMENT	RING		SKETCH OF RING
		A	B		AT X	AT Y	
1.	C1	200	300	6 Nos-12mmφ	ø1-ø1600C/C.	ø1-ø1500C/C.	SI-1
2.	C2	200	400	8 Nos-12mmφ	ø1-ø1600C/C.	ø1-ø1500C/C.	SI-1, SI-2

FOR TENDER PURPOSE ONLY

REC **अरुंधती**

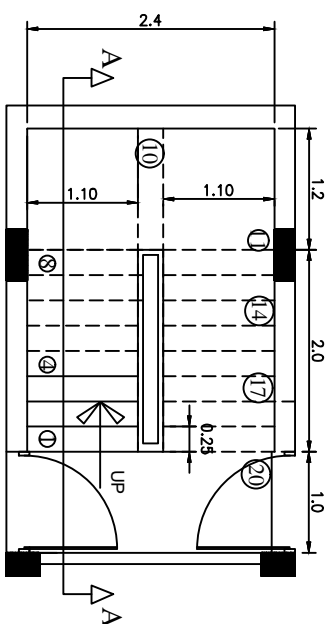
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

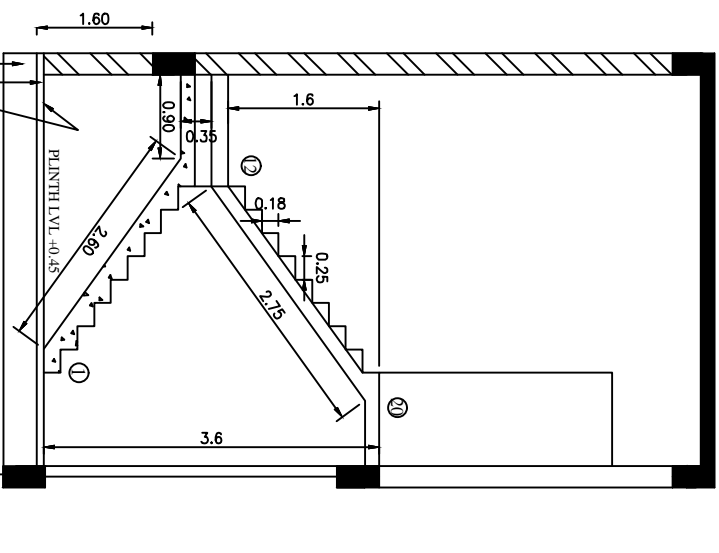
TITLE: CENTRE LINE WITH COLUMN LAYOUT & FOOTING DETAILS

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/RDSS/CIVIL/07	1 OF 1	0

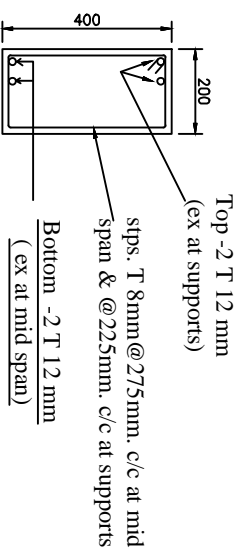
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



STAIRCASE DETAILS	
RISE-150 mm	Tread-250 mm
STAIRCASE B	
Walst Slab 110 mm. TH.	
Main R/F-T 12 mm. @ 150 mm .c/c	
Dlsth. R/F-T 10mm. @200 mm.c/c	

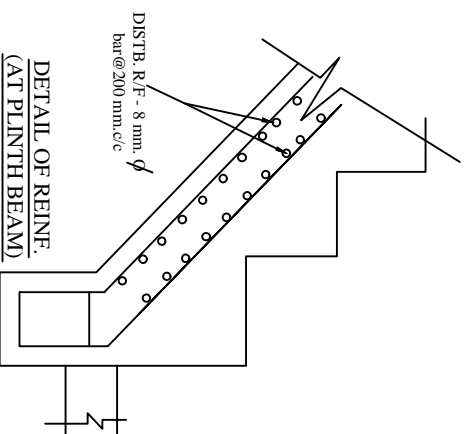


SECTION - AA'



LB (100 mm x 400 mm.)

DETAIL OF REINF.
(AT LANDING BEAM)



DETAIL OF REINF.
(AT PLINTH BEAM)

FOR TENDER PURPOSE ONLY



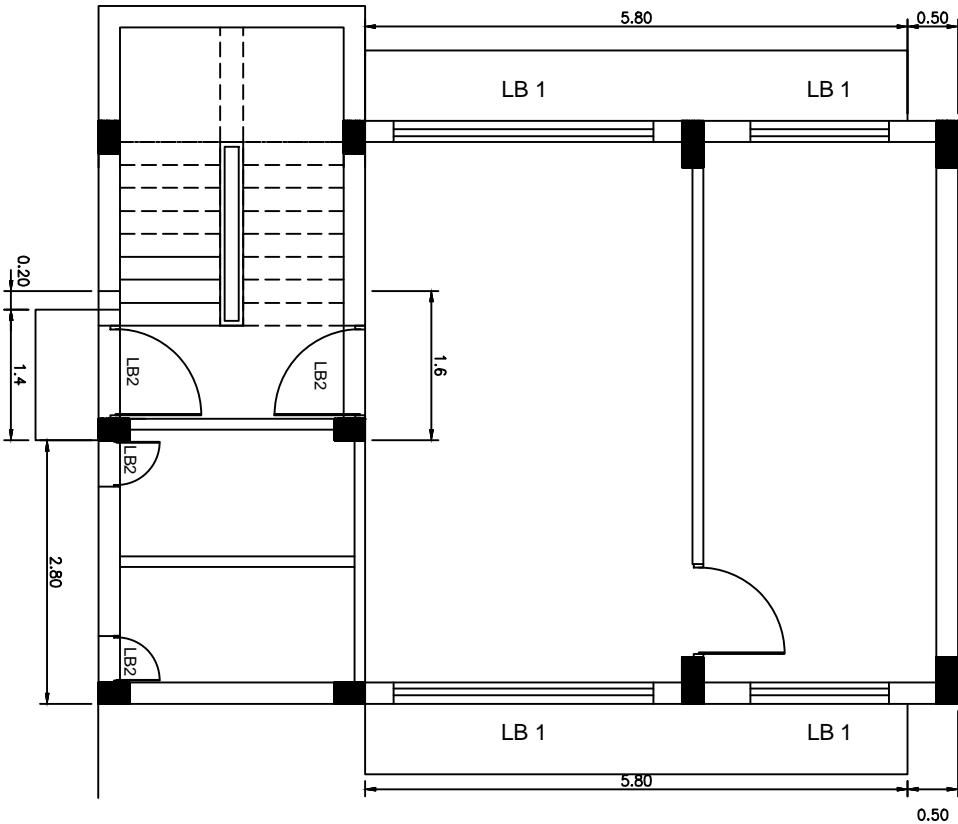
Rural Electrification Corporation Ltd.

PROJECT: Revamped Distribution Sector Scheme (RDSS)

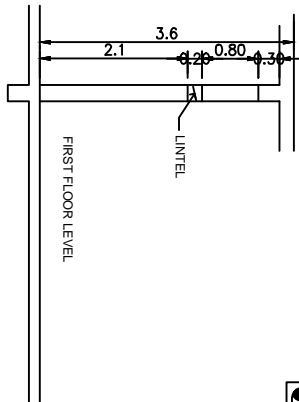
TITLE: STAIR DETAIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/08	1 OF 1	0

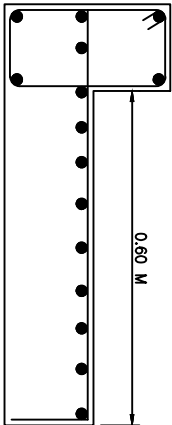
GROUND FLOOR LINTEL PLAN



TYPICAL SECTION



TYPICAL R/F DETAILS OF CHAJIA



CHAJIA SLAB DETAILS

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

LINTEL BEAM DETAILS

REINFORCEMENT								
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS DETAIL	
SR. NO.	BEAM	SIZE	CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SUPP.	AT SUPPORT (ST1)	AT MID SPAN (ST2)
1.	LB1	200X200	2-10 mm ϕ	1-10 mm ϕ	2-10 mm ϕ	1-10 mm ϕ	8mm @ 150c/c	8mm @ 200c/c
2.	LB2	200X200	2-10 mm ϕ		2-10 mm ϕ		8mm @ 175c/c	8mm @ 225c/c

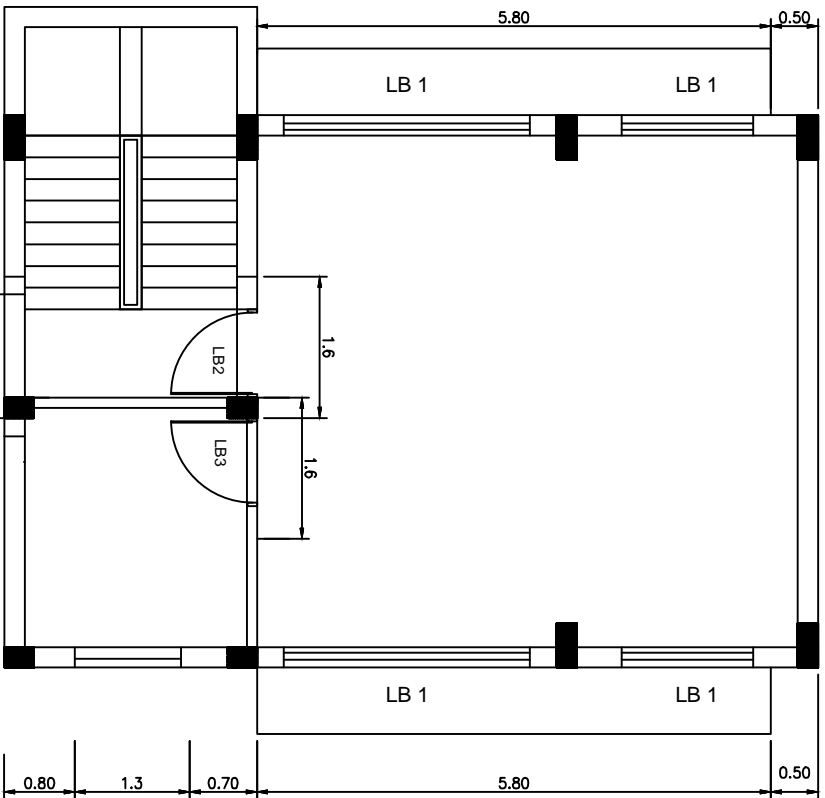
FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

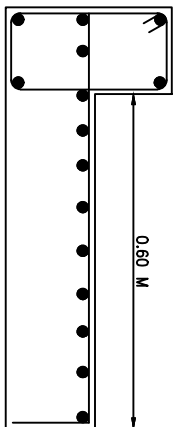
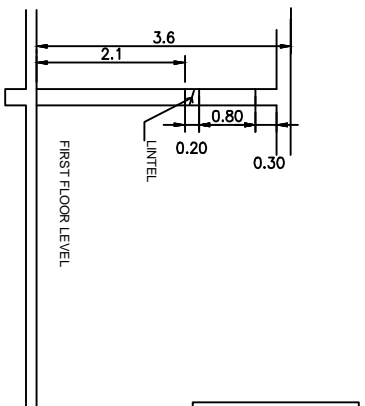
PROJECT: Revamped Distribution Sector Scheme (RDSS)

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 DETAILS OF CHAJIA

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

LINTEL BEAM DETAILS			
TOP REINFORCEMENT		BOTTOM REINFORCEMENT	
S.R. NO.	BEAM	CONTINUE	EXTRA AT SUPP.
1.	LB1	2-10 mm ϕ	1-10 mm ϕ
2.	LB2	2-10 mm ϕ	2-10 mm ϕ
3.	LB3	2-10 mm ϕ	2-10 mm ϕ

FOR TENDER PURPOSE ONLY

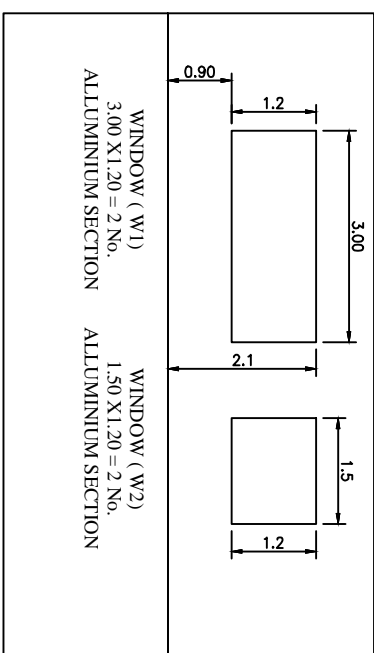
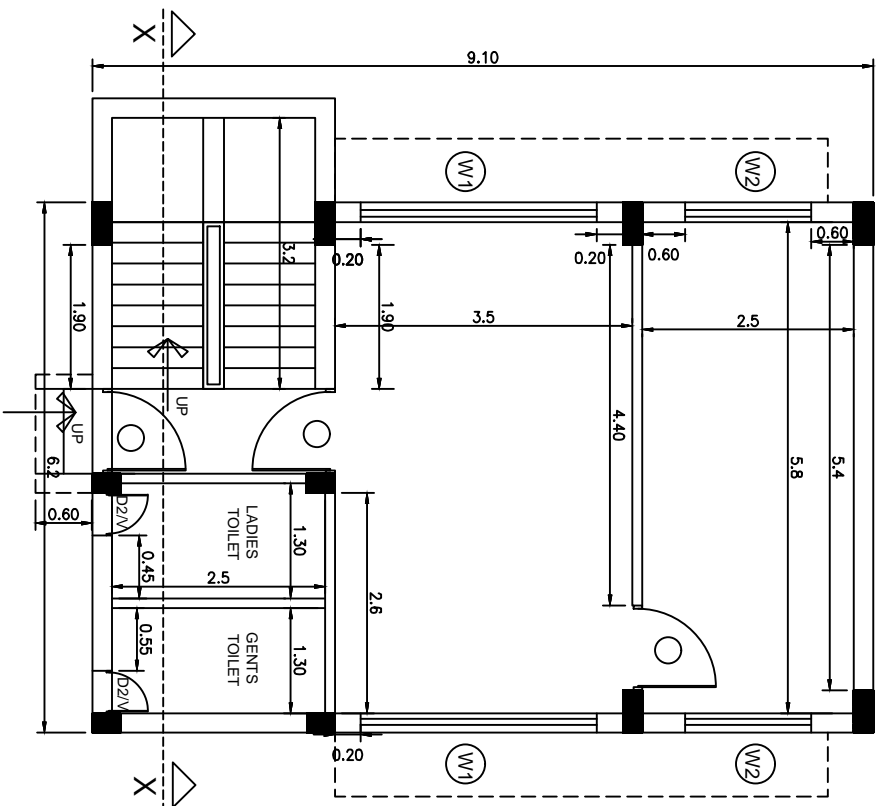


Rural Electrification Corporation Ltd.

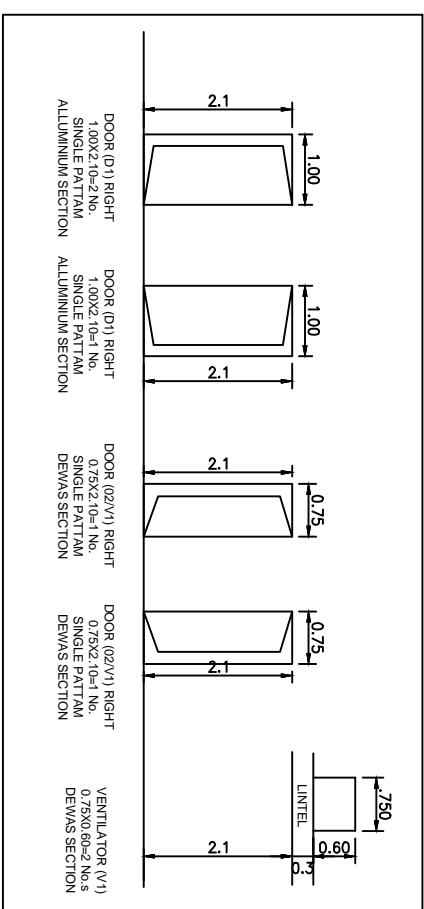
Revamped Distribution Sector Scheme (RDSS)

FIRST 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/10	1 OF 1	0



WINDOW FRAME DETAIL



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

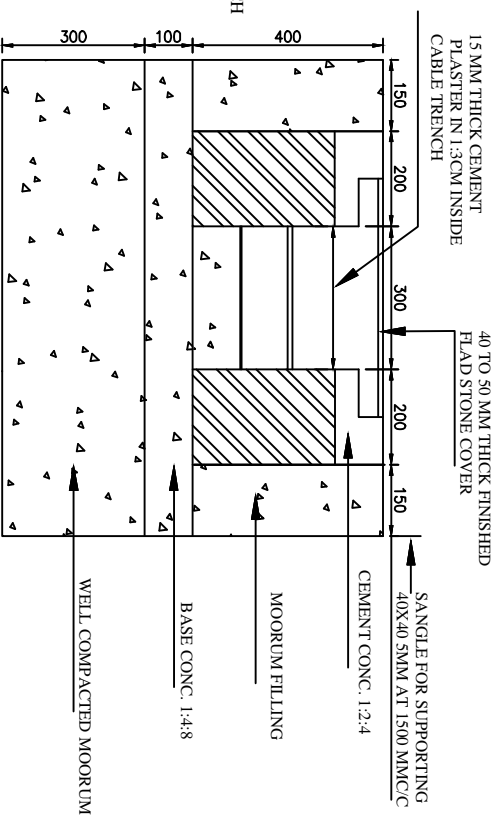
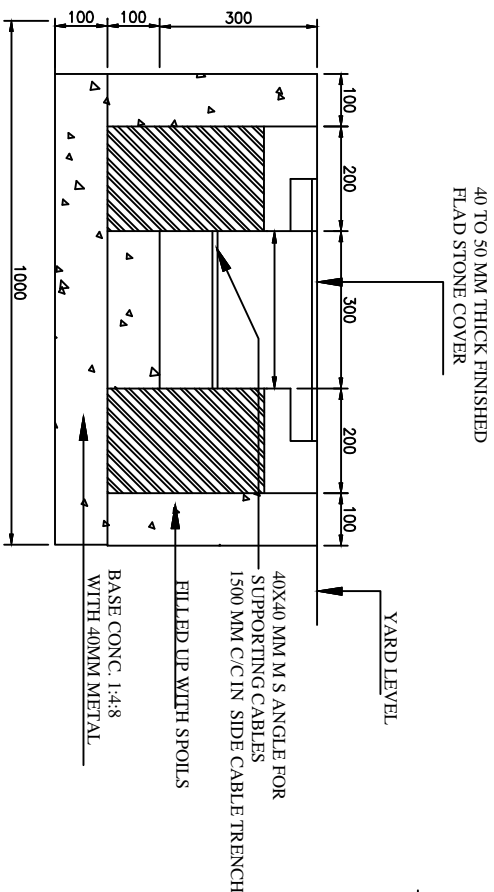
PROJECT:

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



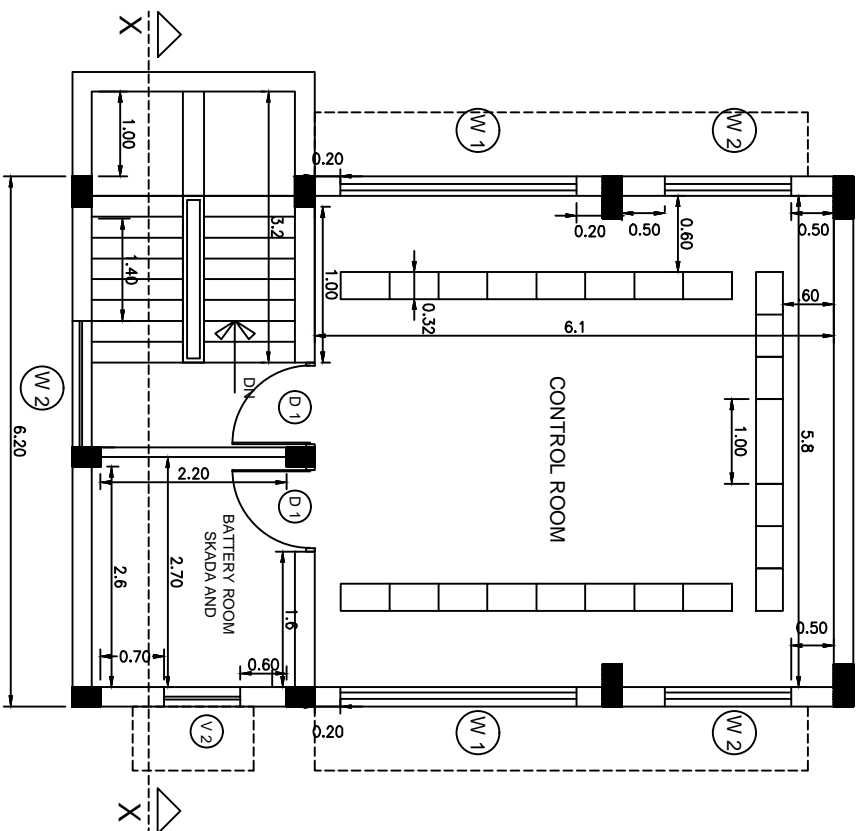
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

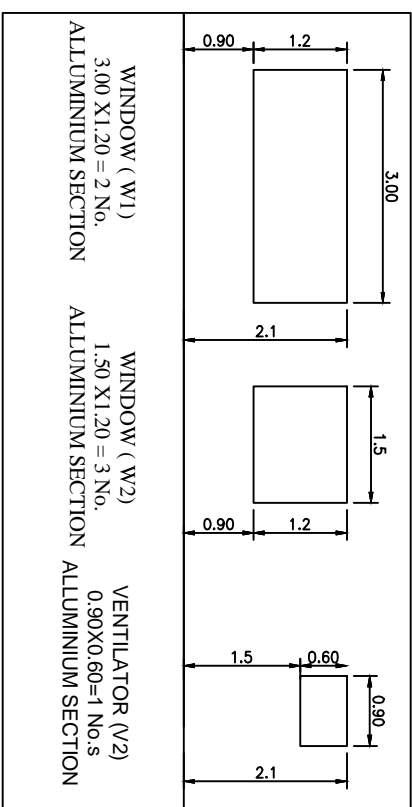
PROPOSED CABL TRENCH

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

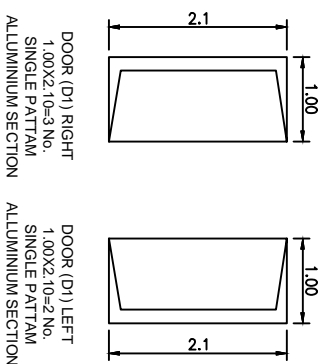
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/RDSS/CIVIL/12	1 OF 1	0



FIRST FLOORWORKING PLAN



WINDOW FRAME DETAIL



DOOR FRAME DETAIL

FOR TENDER PURPOSE ONLY

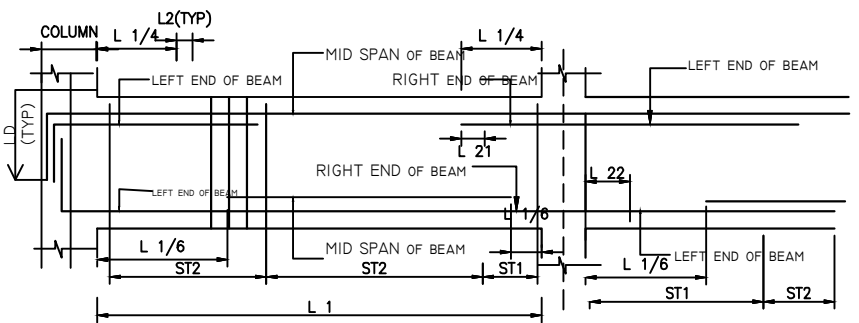


Rural Electrification Corporation Ltd.

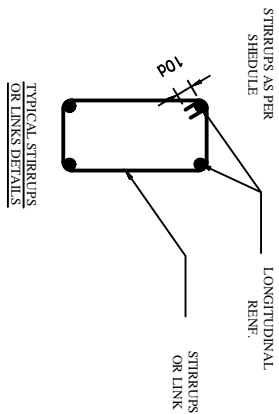
PROJECT: Revamped Distribution Sector Scheme (RDSS)

TITLE: FIRST FLOOR WORKING & OPENING DETAIL

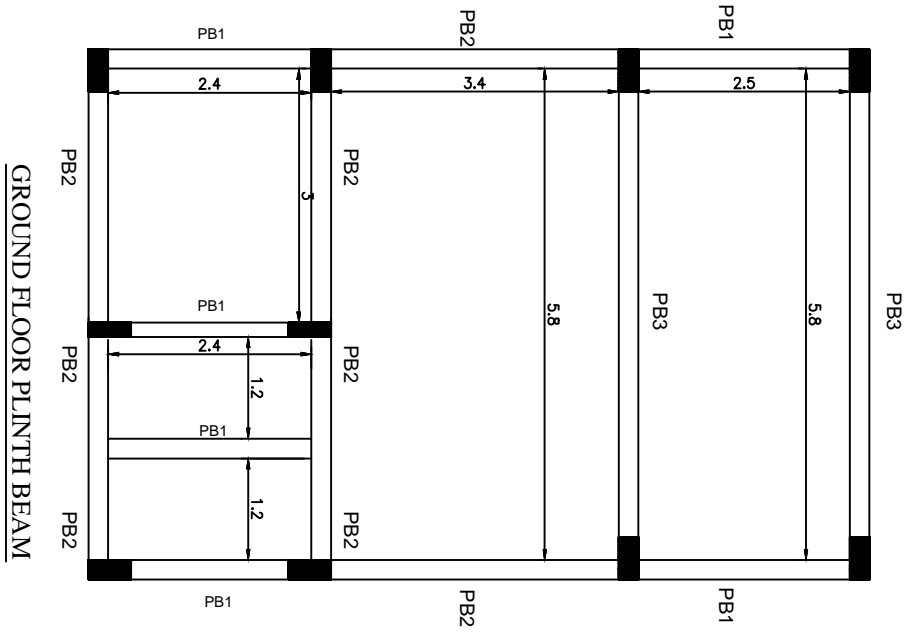
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A4	1:100	REC/RDSS/CIVIL/13	1 OF 1	0



TYPICAL SECTION OF BEAM



DEVELOPMENT LENGTH - L _D	L _D
FOR HYSD BARS WITH	
F _y = 415 N/MM ²	
CONCRETE GRADE	M20
	47X D/LA



GROUND FLOOR PLINTH BEAM

REINFORCEMENT								
		TOP REINFORCEMENT			BOTTOM REINFORCEMENT		STIRRUPS DETAIL	
S.R. NO.	BEAM	SIZE	CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SPAN	AT SUPPORT(ST1)	AT MID SUPPORT(ST2) SPAN
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

PLINTH BEAM DETAILS

FOR TENDER PURPOSE ONLY

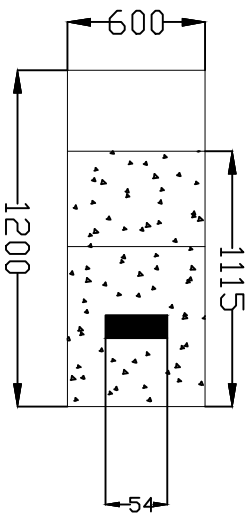
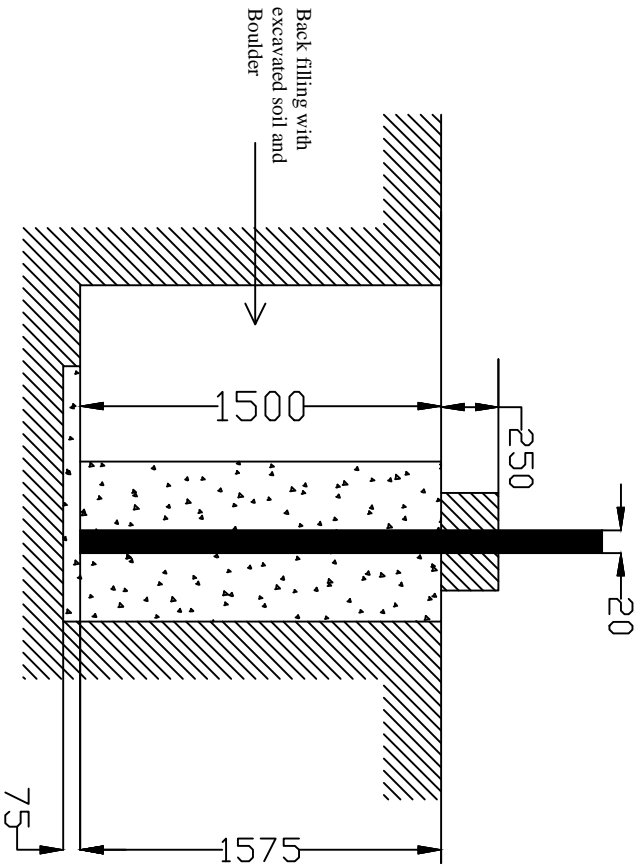
Rural Electrification Corporation Ltd.

Revamped Distribution Sector Scheme (RDSS)

GROUND FLOOR PLINTH BEAM PLAN & DETAILS

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

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



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.

A3 MTS

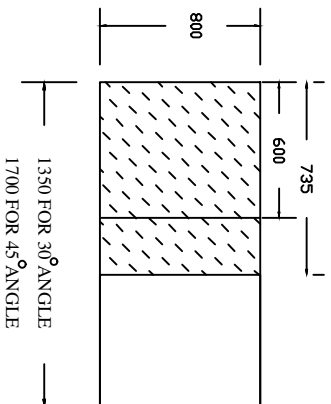
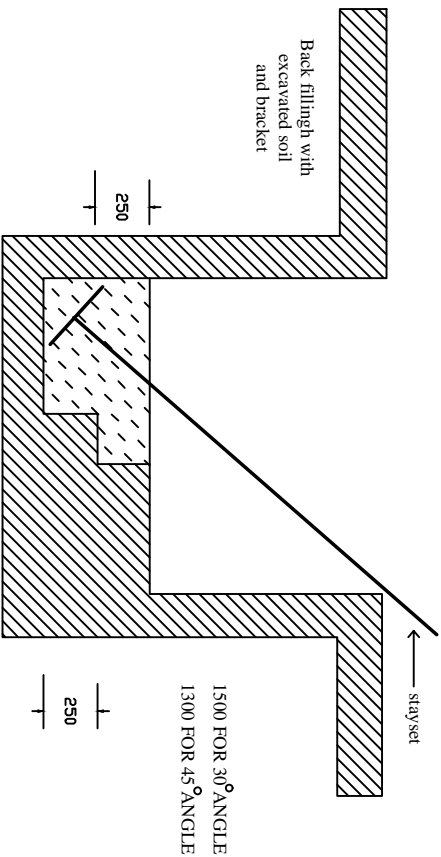
REC/RDSS/CIVIL/15

SHT. NO. REV. NO.

1 OF 1

0

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

CONCREATING FOR STAY SET FOR 11 KV LINE AND LT LINE

SIZE/SCALE

DRG. NO.

SHT. NO. REV. NO.

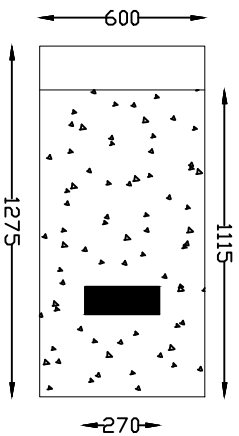
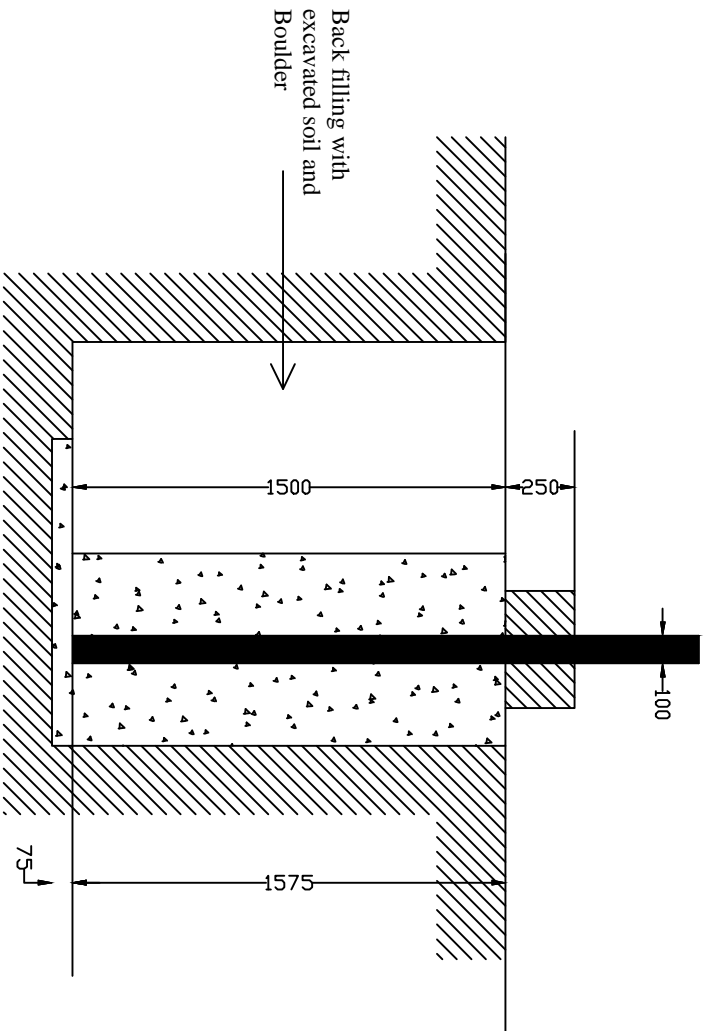
As MTS

REC/RDSS/CIVIL/15

1 OF 1

0

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



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Revamped Distribution Sector Scheme (RDSS)

TITLE

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

SIZE/SCALE

PRG. NO.

SHT. NO. REV. NO.

A3 MTS

REC/RDSS/CIVIL/17

1 OF 1

0

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