

**VOLUME-III : SECTION – II**

**TENDER DRAWINGS**

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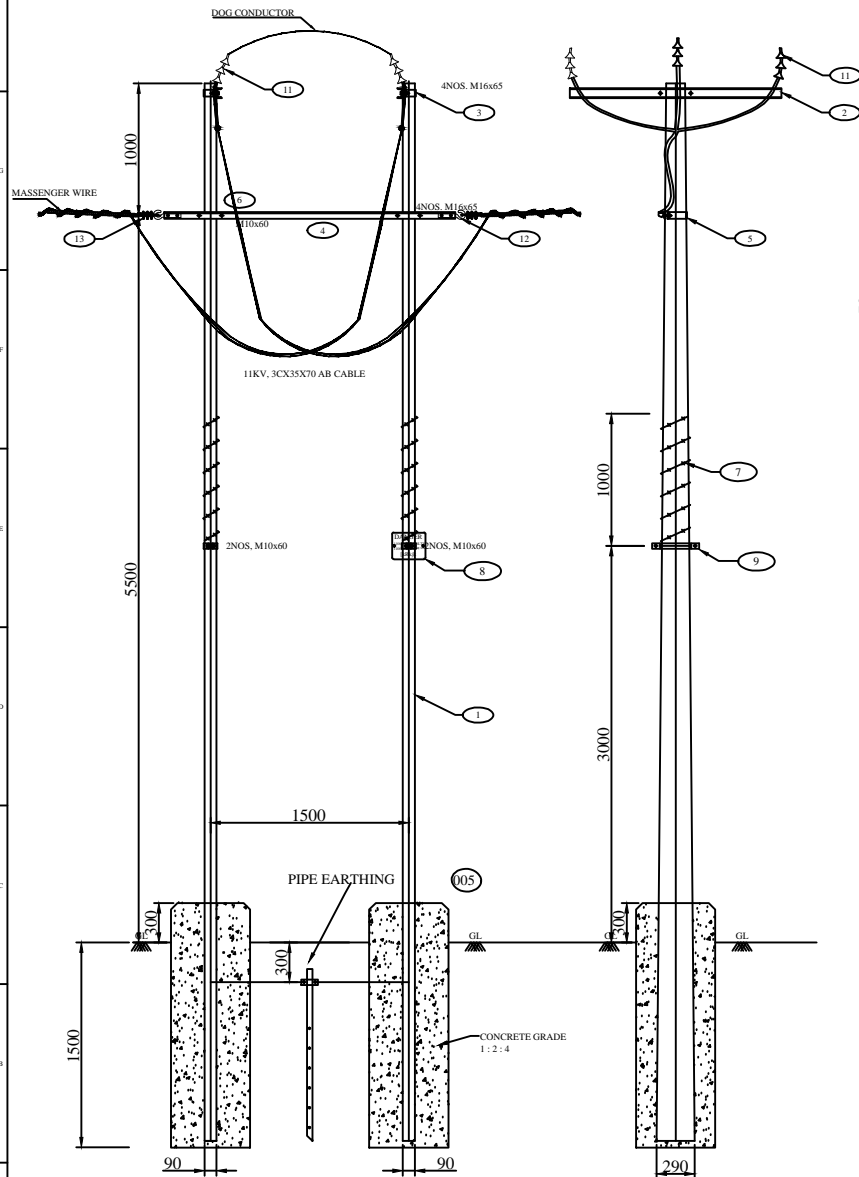
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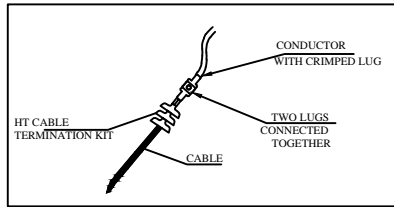
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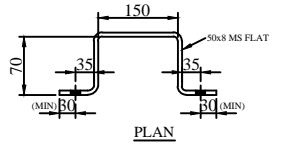
**FRONT VIEW**

**SIDE VIEW**

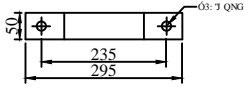
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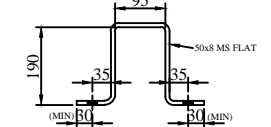
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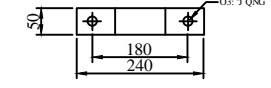
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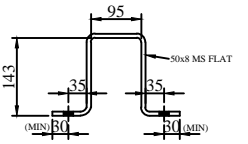
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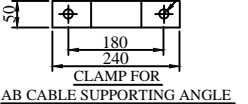
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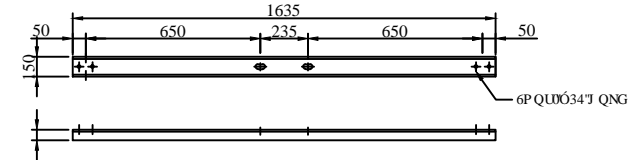
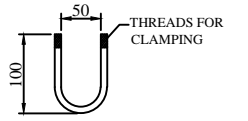
**CLAMP FOR AB CABLE SUPPORTING ANGLE**



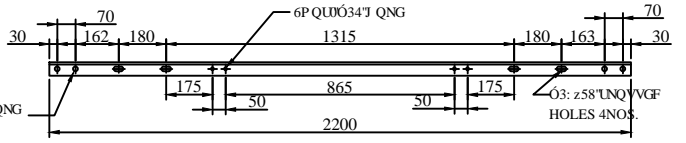
**PLAN**



**CLAMP FOR AB CABLE SUPPORTING ANGLE**



**TOP CHANNEL (75x40)**



**AB CABLE SUPPORTING ANGLE(50x50x6)**

BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	kg./mtr.	QTY.	TOTAL Wt. KG.
1	8M200KG PSC POLE		M.S.	8000		2 NOS.	
2	TOP CHANNEL	C 75X40	M.S.	1635	7.90	2 NOS.	25.28
3	BACK CLAMP FOR TOP CHANNEL	50X8	M.S.	441	3.14	2 NOS.	2.769
4	AB CABLE SUPPORTING ANGLE	50x50x6	M.S.	2200	4.50	1 NOS.	9.900
5	BC FOR AB CABLE SUPPORTING ANGLE	50X8	M.S.	551	3.14	2 NOS.	13.360
6	U CLAMP FOR AB CABLE SUPPORTING CHANNEL		M.S.			3 NOS.	
7	BARBED WIRE		M.S.			AS REQ.	
8	DANGER BOARD		M.S.			3 NOS.	
9	BACK CLAMP FOR BARBED WIRE	50X8	M.S.	661	3.14	2 NOS.	2.075
10	ALUMINIUM BINDING WIRE					AS REQ.	
11	HT AB CABLE TERMINATION KIT					2 NOS.	
12	EYE HOOK					2 NOS.	
13	HT TENSION CLAMP					2 NOS.	
<b>TOTAL</b>							<b>53.384</b>

SR. NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	kg./mtr.	QTY.	TOTAL Wt. KG.
14	NUTS & BOLTS	M16		65	0.164KG/NO.	8 NOS.	1.132
15	NUTS & BOLTS	M10		60	0.055KG/NO.	6 NOS.	0.330
16	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.	8 NOS.	0.072
17	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.	4 NOS.	0.012
18	PLAIN WASHER	M16		3 THK.	0.015KG/NO.	16 NOS.	0.240
19	PLAIN WASHER	M10		3 THK.	0.005KG/NO.	4 NOS.	0.020
<b>TOTAL</b>							<b>1.706</b>

**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

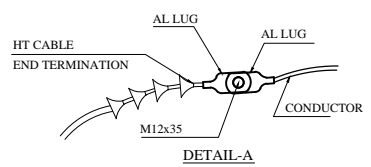
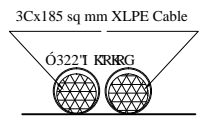
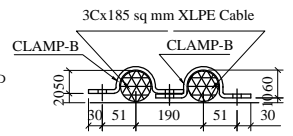
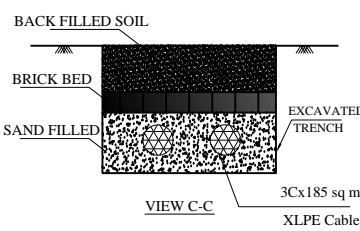
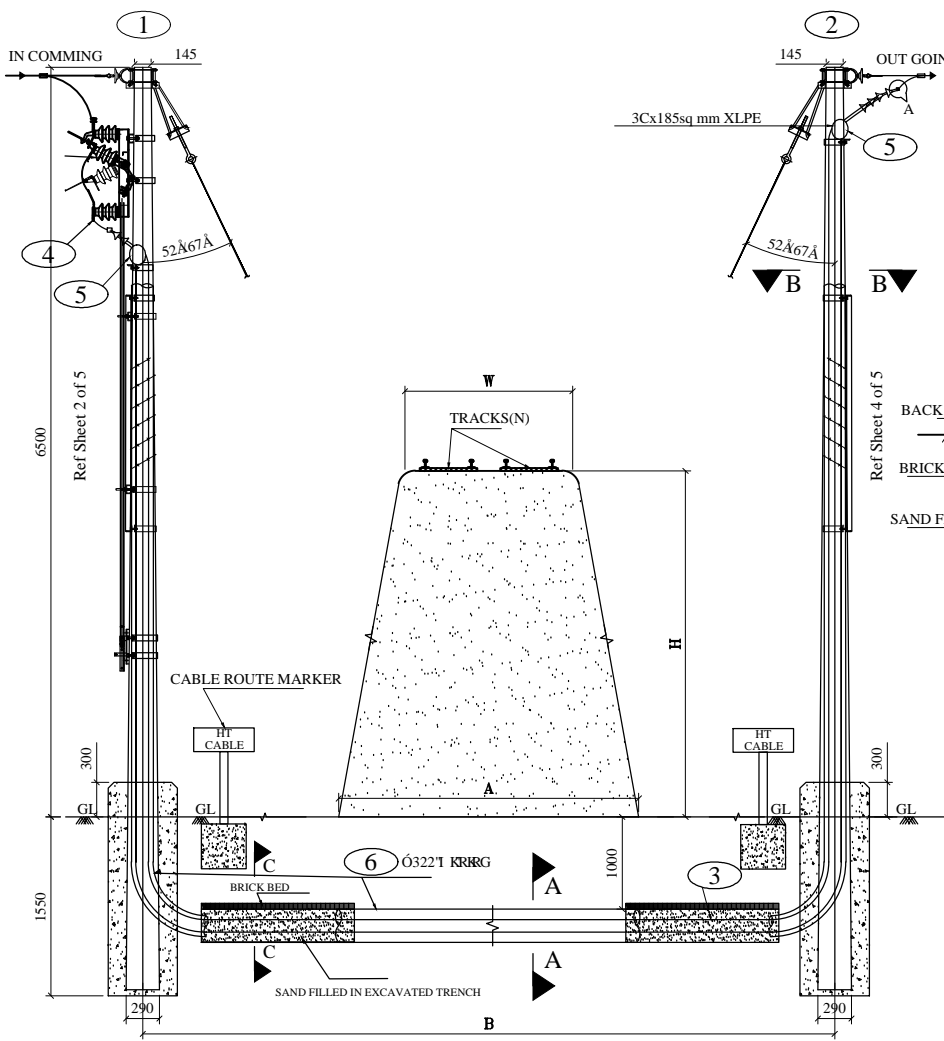
**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)**

**TITLE: 11KV AB CABLE TO CABLE END TERMINATION ARRANGMENT**

DATE	SCALE NTS	DRG. NO. <b>REC/DDUGJY/11KV/01</b>	REV. NO. <b>R0</b>
	SIZE <b>A3</b>		SHT. NO. <b>1 ON 1</b>

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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(3Cx185sqm m)	As Req.	Two Runs
4	Al Lugs Termination of Cable	6 Nos.	Cable to Conductor, Cable to AB Switch
5	XLP Termination Kit	4 Set	2 set's per DP
6	100 Dia GI Pipe	As Req.	Two Runs(As Per Track width)



RAILWAY CROSSING DETAILS

NAME OF THE BRANCH LINE	LENGTH IN METERS				IN Nos.
	A	B	H	W	
ATTABIRA TO SAMBALPUR	8.5	45	6	2.5	2
BARGARH TO ATTABIRA	8.5	45	6	2.5	2
BARGARH TO BARPALI	8.5	45	6	2.5	1
BARGARH TO BARPALI	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

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

FOR TENDER PURPOSE ONLY

NOTES:-

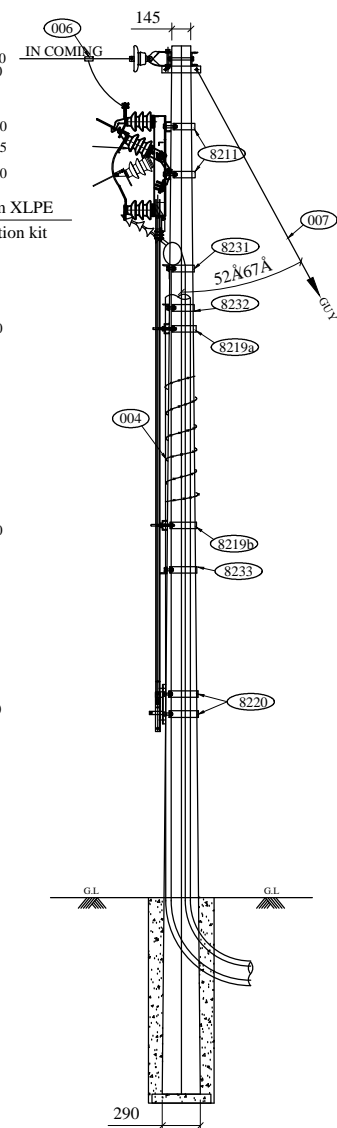
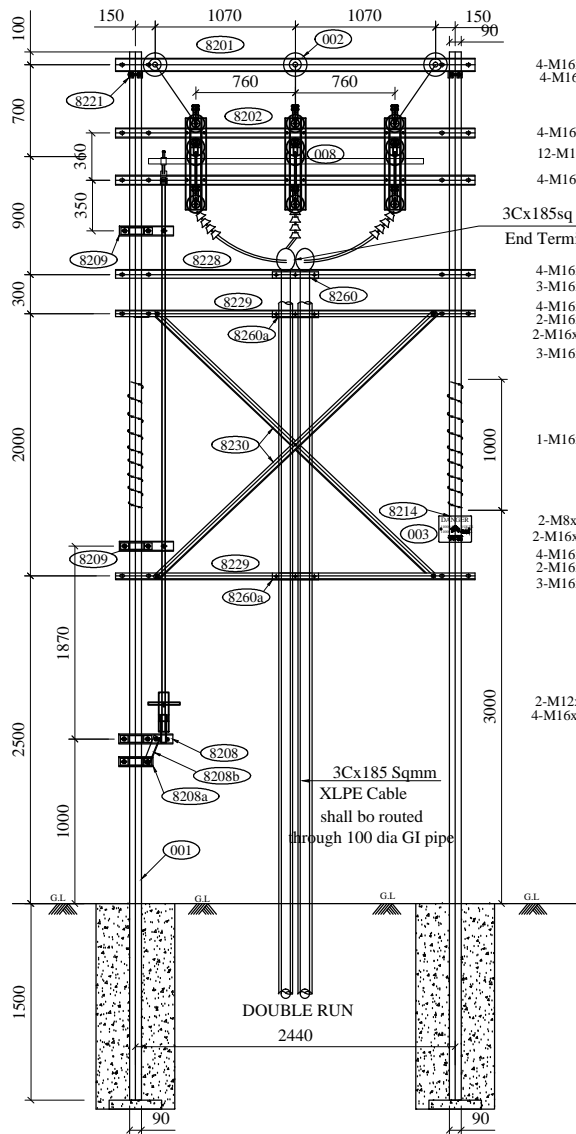
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) LENGTH OF GI PIPE DEPENDING ON WIDTH OF TRACK.
- 3) LENGTH OF XLP CABLE DEPENDING ON SPAN BETWEEN TWO ARRANGEMENTS.
- 4) GI PIPE SHALL BE LAYED UPTO BOTTOM WIDTH OF RAILWAY TRACK AND FROM ABOVE GROUND LEVEL TO TOP BELTING ANGELS ON EITHER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



Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
TITLE:	GA OF 11 KV LINE CROSSING OF RAILWAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES		
DATE:	SCALE NTS	DRG. NO.	REV. NO. R0
	SIZE A3	REC/DDUGJY/11KV/02A	SHT. NO. 1 OF 1

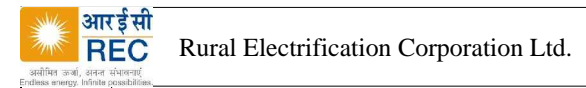
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0	GRB	RWG			



BILL OF MATERIALS						
ERE. CODE.	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	Wt./Mtr. Kg./Mtr.	Total Wt. (in Kg.)
001	8m/200Kg. P.S.C Pole			2		
002	11KV Disc Insulator with Hardware			3		
003	11 KV Danger Board			1		
004	Barbed wire			As Req		
006	PG Clamps			3		
007	Stay Set Arrangement			2		
008	AB switch (RAYCHEM)			1 set		
8201	Top Channel	100x50	2690	2	7.900	42.502
8202	AB Switch Mounting Channel	75x40	2711	2	5.700	30.905
8208	Channel Support for Operating Handle	75x40	462	1	5.700	2.633
8208a	Channel Support for Operating Handle	75x40	260	1	5.700	1.482
8208b	Angle Support for Operating Handle	50x50x6	240	1	4.500	1.080
8209	Channel Support for Operating Rod	75x40	390	2	5.700	4.446
8211	Clamp for AB Switch	50x8	513	4	3.140	6.443
8214	Clamp for Danger Board	30x3	660	1	0.701	0.463
8219a	Clamp for Operating Rod Support	50x8	559	1	3.140	1.755
8219b	Clamp for Operating Rod Support	50x8	613	1	3.140	1.925
8220	Clamp for Operating Handle	50x8	681	2	3.140	4.277
8221	Clamp for Stay Set	50x8	349	4	3.140	4.383
8229	Belting Angle	50x50x6	2711	3	4.500	36.599
8230	Bracing Angle	50x50x6	2892	2	4.500	26.028
8231	Top Clamp for Belting Angle	50x8	541	2	3.140	3.397
8232	Clamp A for Belting Angle	50x8	553	2	3.140	3.473
8233	Clamp B for Belting Angle	50x8	625	2	3.140	3.925
8260a	Clamp A GI Pipe	50x8	360	4	3.140	4.522
8260	Clamp B for Xp Cable	50x8	275	2	3.140	1.727
809	Fish plate	50x9	300	6	3.140	5.652
<b>TOTAL WEIGHT</b>					<b>187.617</b>	
A	Bolt & Nuts	M16	200	4	0.387	1.548
B	Bolt & Nuts	M16	100	16	0.220	3.520
C	Bolt & Nuts	M16	70	4	0.172	0.688
D	Bolt & Nuts	M16	65	21	0.164	3.444
E	Bolt & Nuts	M16	35	6	0.117	0.702
F	Bolt & Nuts	M12	35	17	0.058	0.986
G	Bolt & Nuts	M8	50	2	0.038	0.076
G	Spring Washers	M16		51	0.009	0.459
	Spring Washers	M12		17	0.005	0.085
	Spring Washers	M8		2	0.002	0.004
	Flat Washers	M16		51	0.014	0.714

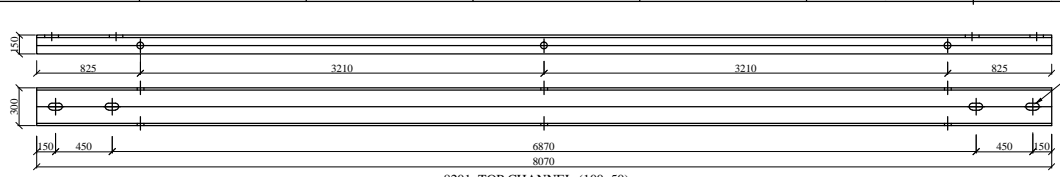
- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) FOR EARTHING REF. DRG.No NESCL-RE-GEN-006
  - 3) FOR FOUNDATION DETAILS REF. DRG. No. NESCL-RE-GEN-009
  - 4) ALL CHANNELS & ANGLES SHALL CONFORM TO IS: SPS6 PART 1
  - 5) ALL MS PARTS SHALL CONFORM TO IS: 2062
  - 6) ALL MS PARTS SHALL BE HOT DIP GALVANISED AS PER IS: 2629 & IS: 4759

FOR TENDER PURPOSE ONLY

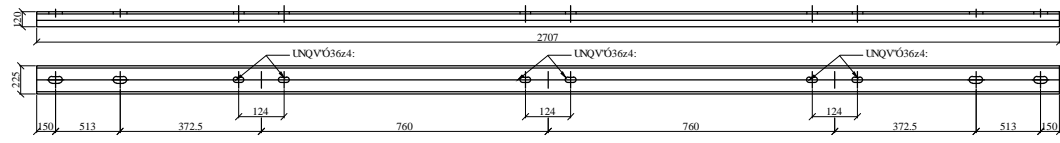


PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)			REV. NO. R0
TITLE:	GA OF 11 KV LINE CROSSING OF RAILWAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES			SHT. NO. 1 OF 2
DATE:	SCALE NTS	DRG. NO.	REC/DDUGJY/11KV/2B	
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE

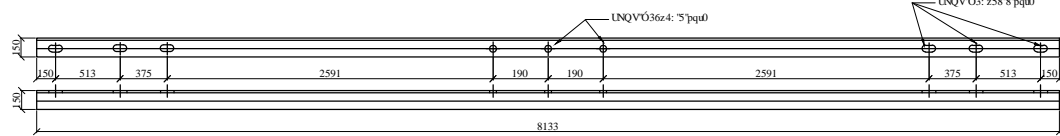
R0	GRB	RWG			
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



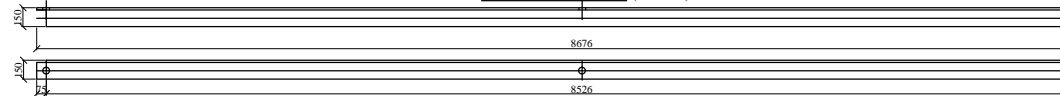
8201. TOP CHANNEL (100x50)



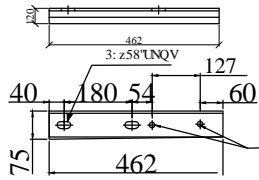
8202. AB SWITCH MOUNTING CHANNEL (75x40)



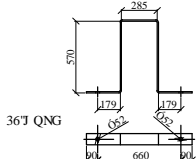
8229. BELTING ANGLE (50x50x6)



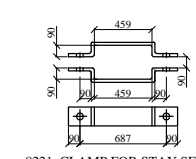
8230. BRACING ANGLE (50x50x6)



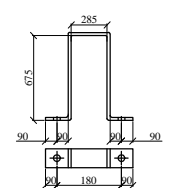
8208. AB SWITCH OP HANDLE SUPP. CHANNEL (75x40)



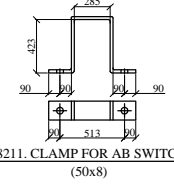
8214. DANGER CLAMP (30x3)



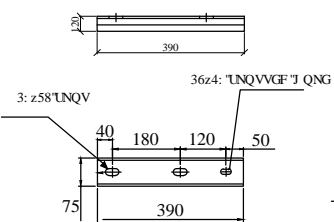
8221. CLAMP FOR STAY SET (50x8)



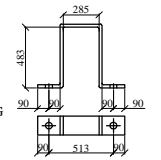
8220. CLAMP FOR AB SWITCH HANDLE SUPPORT (50x8)



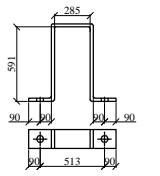
8211. CLAMP FOR AB SWITCH (50x8)



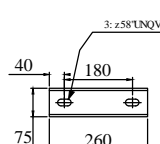
8209. AB SWITCH OP PIPE SUPP. CHANNEL (75x40)



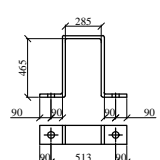
8232. CLAMP-A BELTING (50x8)



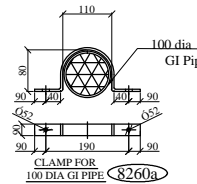
8233. CLAMP-B BELTING (50x8)



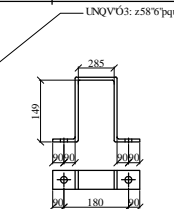
8208a. AB SWITCH OP HANDLE SUPP. CHANNEL (75x40)



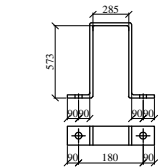
8231. TOP CLAMP FOR BELTING (50x8)



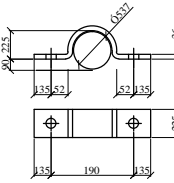
8260a. CLAMP FOR 100 DIA GI PIPE



8219a. TOP CLAMP FOR OP. ROD SUPPORT (50x8)



8219b. BOTTOM CLAMP FOR OP. ROD SUPPORT (50x8)



8260. CLAMP FOR XLP CABLE

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE  
 WRVQ720 o 7'07'  
 73'VQ3220 o 7'06'  
 323'VQ5220 o 7'05'  
 CDQVG5220 o 7'04'
  - 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
  - 8) ALL HOLES ARE 18MM DIA AND ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.

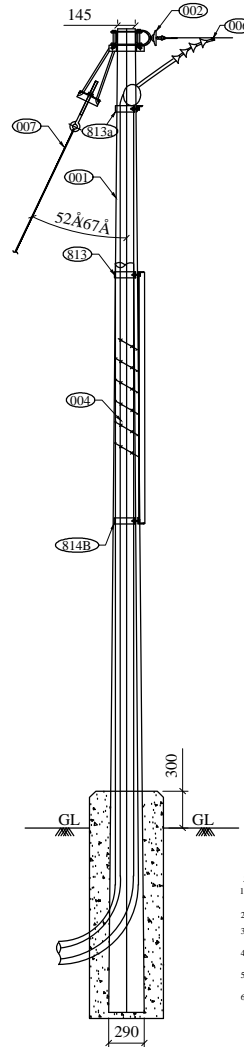
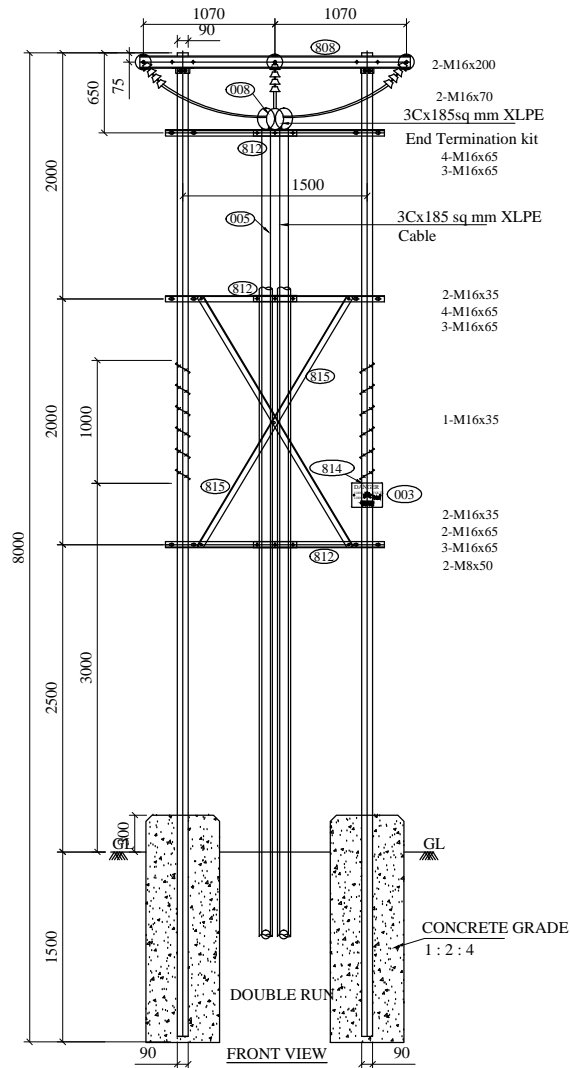
FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
TITLE:	GA OF 11 KV LINE CROSSING OF RAILWAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES		
DATE:	SCALE NTS SIZE A3	DRG. NO.  REC/DDUGJY/11KV/2C	REV. NO. R0 SHT. NO. 1 OF 3

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



**GENERAL NOTES:**

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) FOR EARTHING REF. DRG.No NESCL-RE-GEN-006
- 3) FOR FOUNDATION DETAILS REF. DRG. No. NESCL-RE-GEN-009
- 4) ALL CHANNELS & ANGELS SHALL CONFORM TO IS: SP6 PART 1
- 5) ALL MS PARTS SHALL CONFORM TO IS: 2062
- 6) ALL MS PARTS SHALL BE HOT DIP GALVANISED AS PER IS: 2629 & IS: 4759

BILL OF MATERIALS						
ERE. CODE	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	Wt./Mtr. Kg./Mtr.	Total Wt. (in Kg.)
001	8m/200Kg. PSC Pole			2		
002	11KV Disc Insulator with Hardware			3		
003	11 KV Danger Board			1		
004	Barbed wire			As Req		
006	PG Clamps			3		
007	Stay Set Arrangement			2		
808	Top Channel	100x50	2200	2	7.9	34.76
812	Belting Angle	50x50x6	1771	3	4.5	23.91
815	Bracing Angle	50x50x6	2347	2	4.5	21.12
809	Fish Plate	50x8	300	6	3.14	5.65
813a	Top Clamp for Belting Angle	50x8	504	2	3.14	3.17
813	Clamp A for Belting Angle	50x8	554	2	3.14	3.48
814B	Clamp B for Belting Angle	50x8	626	2	3.14	3.93
810	Clamp for Stay Set	50x8	349	4	3.14	4.38
814	Danger Board Clamp	30x3	660	1	0.706	0.47
880a	Clamp A for GI Pipe	50x8	380	4	3.14	4.52
860	Clamp B for XLP Cable	50x8	265	2	3.14	1.66
	<b>TOTAL :</b>					<b>107.05</b>
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	0.058	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
	<b>TOTAL :</b>					<b>7.383</b>

FOR TENDER PURPOSE ONLY

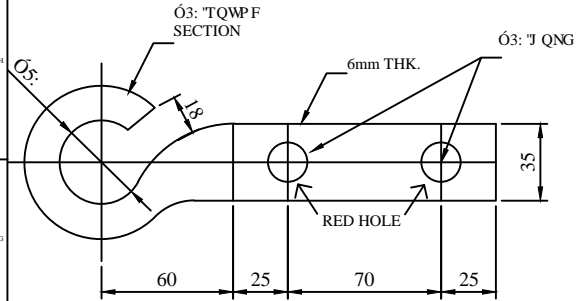


Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
TITLE:	GA OF 11 KV LINE CROSSING OF RAILWAY USING 3c X 185 SQMM XLPE CABLE ON DP STRUCTURE PCC/PSC POLES		
DATE:	SCALE NTS	DRG. NO.	REV. NO. R0
	SIZE A3	REC/DDUGJY/11KV/2D	SHT. NO. 1 OF 4

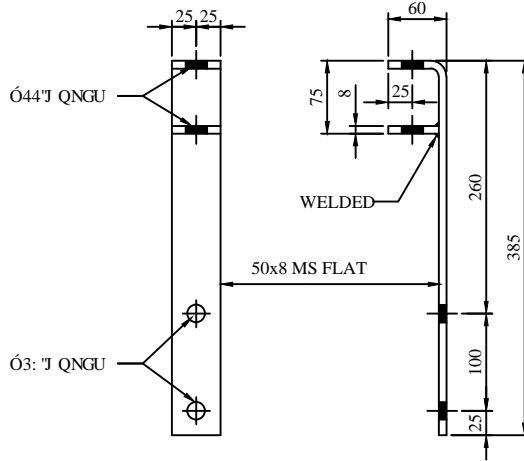
R0	GRB	RWG			
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT





**EYE HOOK**  
**REC**  
**CONSTRUCTION STANDARD**  
**E-35**

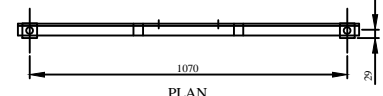
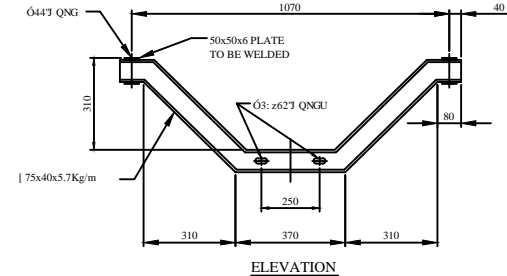
019



**ELEVATION**      **END VIEW**

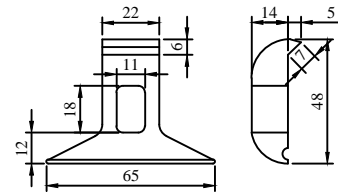
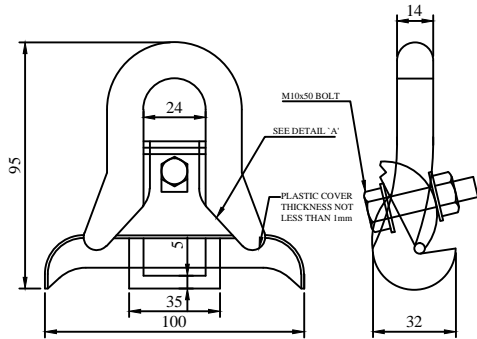
**11 kV LINES POLE TOP BRACKET**  
**REC CONSTRUCTION STANDARD**  
**A-7**

801



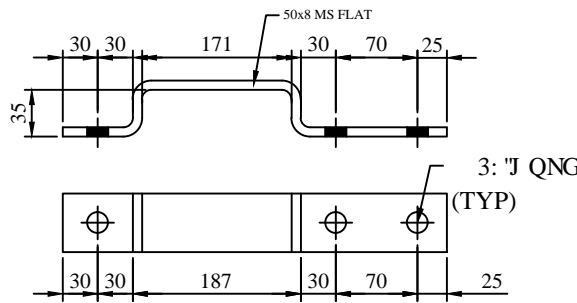
**V-CROSS ARM**  
**REC CONSTRUCTION STANDARD**  
**A-6**

802



**DETAIL AT 'A'**  
**SUSPENSION CLAMP**  
**REC**  
**CONSTRUCTION STANDARD**  
**E-34**

027



**CLAMP FOR EYE HOOK**  
**REC CONSTRUCTION STANDARD**  
**A-8**

818C

**GENERAL NOTES:**

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- MANUFACTURING TOLERANCE.  
 WRVQ 720 o "O7"  
 73 VQ 3220 o "O6"  
 323 VQ 5220 o "O5"  
 CDQXG 5220 o "O4"
- ALL M.S. PARTS SHALL CONFORM TO IS:2062
- ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- WEIGHT & LENGTH MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- ALL CHANNELS AND ANGLES SHALL CONFORM TO IS:SP 6. PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.

**FOR TENDER PURPOSE ONLY**



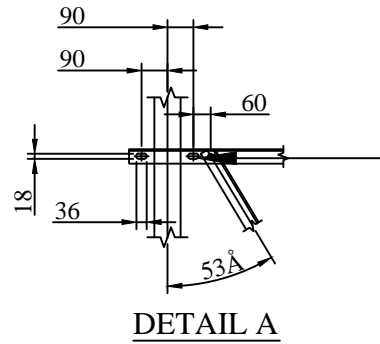
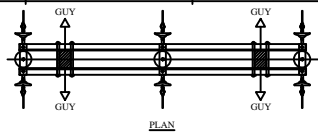
**Rural Electrification Corporation Ltd.**

**PROJECT:**  
 Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

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

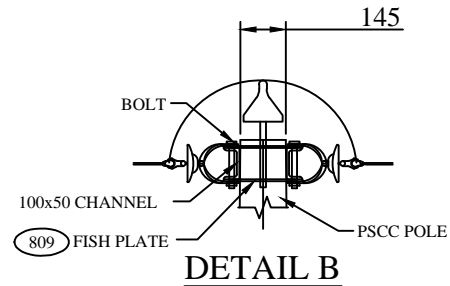
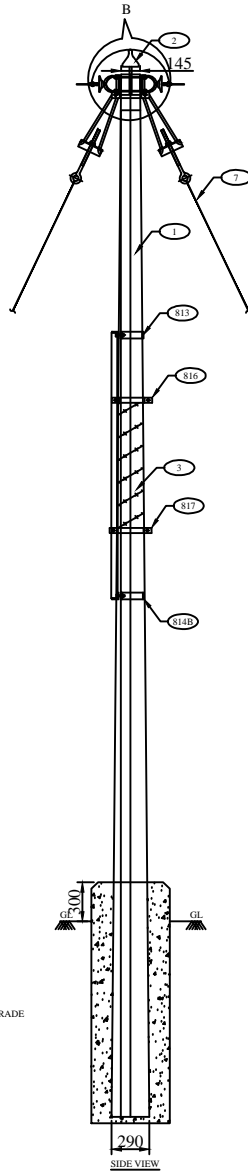
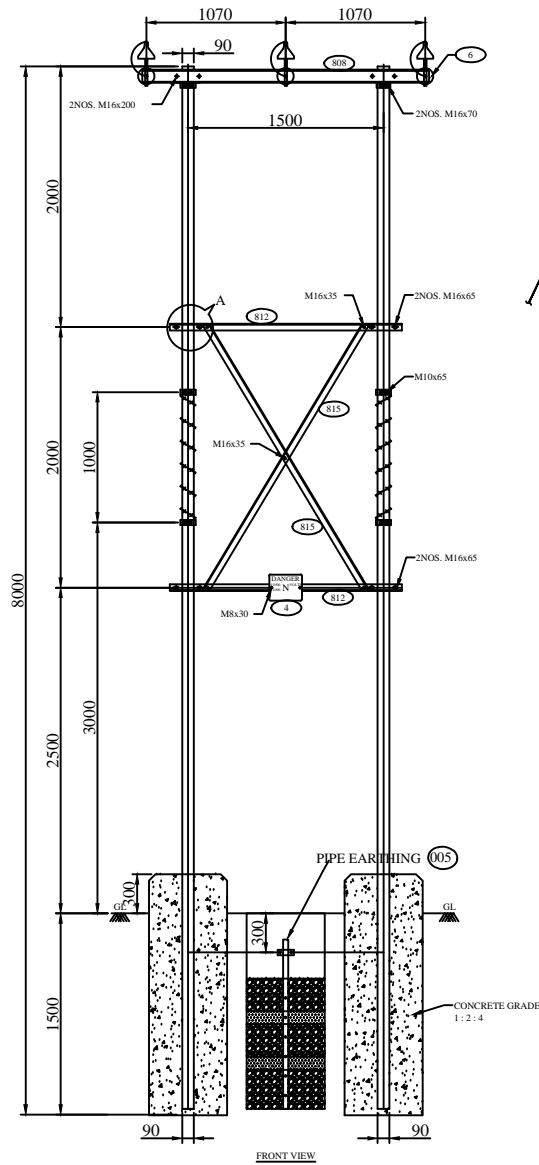
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/11KV/03	1 OF 1	0

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



Angle should not be cut on its one of the sides. Instead, both the sides should be bent and then drilled.

BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	8M/200KG PSC POLE	2 NOS.	REC-XII Plan-GEN-001A
2	11KV PIN INSULATOR WITH GI PINS	3 NOS.	
3	BARBED WIRE	7000MM	
4	11KV DANGER BOARD	1 NO.	REC-XII Plan-11KV-022
5	PIPE EARTHING	1 SET	REC-XII Plan-GEN-006
6	11KV DISK INSULATORS WITH H/W	6 NOS.	
7	STAY SET ARRANGEMENT	4SET	REC-XII Plan-GEN-007
808	TOP CHANNELS (100x50)	2 NOS.	REC-XII Plan-11KV-002
812	BELTING ANGLES(50x50x6)	2 NOS.	REC-XII Plan-11KV-002
815	BRACING ANGLES(50x50x6)	2 NOS.	REC-XII Plan-11KV-002
809	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  
 WRVQ'720 o 7"Ø7'  
 73'VQ'3220 o 7"Ø6'  
 323'VQ'5220 o 7"Ø5'  
 CDQXG'5220 o 7"Ø4'
- 3) ALL MS PARTS SHALL CONFIRM 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 & ANGLES SHALL CONFORM AS PER IS:SP6 PART-1  
 ALL CHANNELS SHALL BE ISLC CHANNELS
- 8) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONALISING  
 AT AN INTERVAL OF 1.6KM.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

TITLE

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

SIZE SCALE

A3 NTS

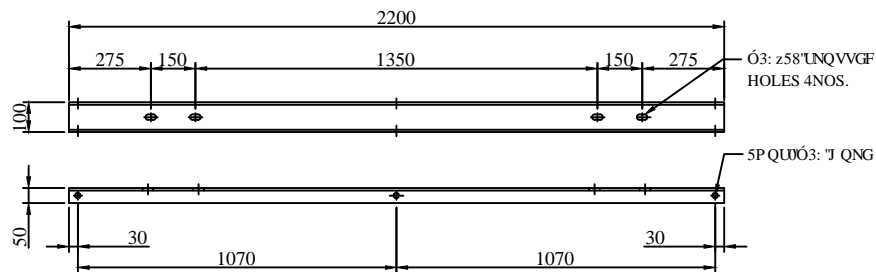
DRG. NO.

REC/DDUGJY/11KV/04A

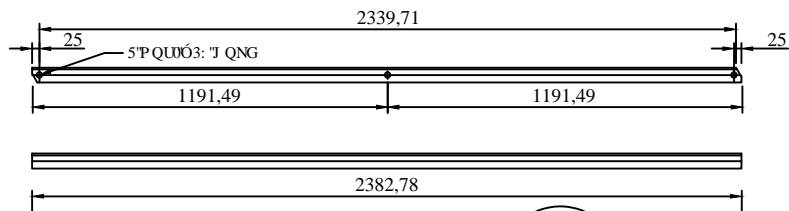
SHT. NO. REV. NO.

1 OF 2 0

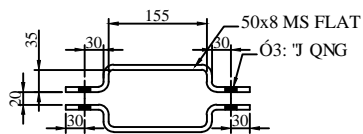
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REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



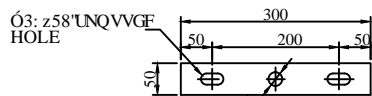
TOP CHANNEL (100x50) 808



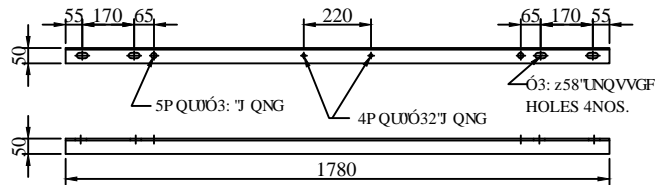
BRACING ANGLE(50x50x6) 815



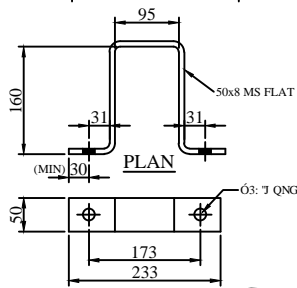
PLAN CLAMP FOR STAY SET (50x8) 810



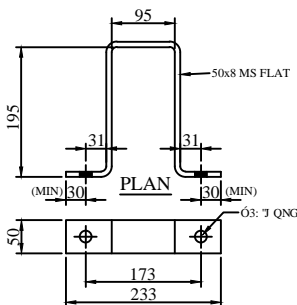
FISH PLATE (50x8) 809



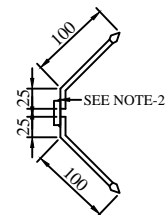
BELTING ANGLE(50x50x6) 812



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



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



SECTION A-A 6mm ROD SPIKE

BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	QTY.	TOTAL Wt. KG.
808	TOP CHANNEL	100x50	M.S.	2200	7.9	2 NOS.	34.76
812	BELTING ANGLE	50x50x6	M.S.	1780	4.5	2 NOS.	16.02
815	BRACING ANGLE	50x50x6	M.S.	2383	4.5	2 NOS.	21.45
809	FISH PLATE	50x8	M.S.	300	3.14	6 NOS.	5.65
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	395	1.60	4 NOS.	2.534
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	40x5	M.S.	413	1.60	4 NOS.	2.650
813	CLAMP A FOR BELTING ANGLE	50x8	M.S.	535	3.14	2 NOS.	3.36
814B	CLAMP B FOR BELTING ANGLE	50x8	M.S.	605	3.14	2 NOS.	3.8
810	CLAMP FOR STAY SET	50x8	M.S.	356	3.14	4 NOS.	4.47
	SPIKE	6mm ROD	M.S.	125	0.22	112 NOS.	3.08
TOTAL							97.774

SR. NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	QTY.	TOTAL Wt. KG.
10	NUTS & BOLTS	M16		200	0.379KG/NO.	4 NOS.	1.516
11	NUTS & BOLTS	M16		65	0.164KG/NO.	12 NOS.	1.968
12	NUTS & BOLTS	M16		35	0.117KG/NO.	5 NOS.	0.585
13	NUTS & BOLTS	M10		60	0.055KG/NO.	8 NOS.	0.440
14	NUTS & BOLTS	M8		50	0.05KG/NO.	2 NOS.	0.100
15	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.	21 NOS.	0.189
16	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.	8 NOS.	0.024
17	SPRING WASHERS	M8		3.5 THK.	0.002KG/NO.	2 NOS.	0.004
18	PLAIN WASHER	M16		3 THK.	0.015KG/NO.	21 NOS.	0.315
19	PLAIN WASHER	M10		3 THK.	0.005KG/NO.	8 NOS.	0.040
20	PLAIN WASHER	M8		3 THK.	0.004KG/NO.	2 NOS.	0.008
TOTAL							5.189

NOTES:-

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) MANUFACTURING TOLERANCE  
 WRVQ'72o o '"/>"Ö7'  
 73"VQ'322o o '"/>"Ö6'  
 323"VQ'522o o '"/>"Ö5'  
 CDQXG'522o o '"/>"Ö4'
- 3) ALL MS PARTS SHALL CONFIRM 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 & ANGLES SHALL CONFORM AS PER IS:SP6 PART-1 ALL CHANNELS SHALL BE ISLC CHANNELS
- 8) THIS DRAWING SHALL BE USED AT TENSION LOCATION FOR SECTIONALISING AT AN INTERVAL OF 1.6KM.

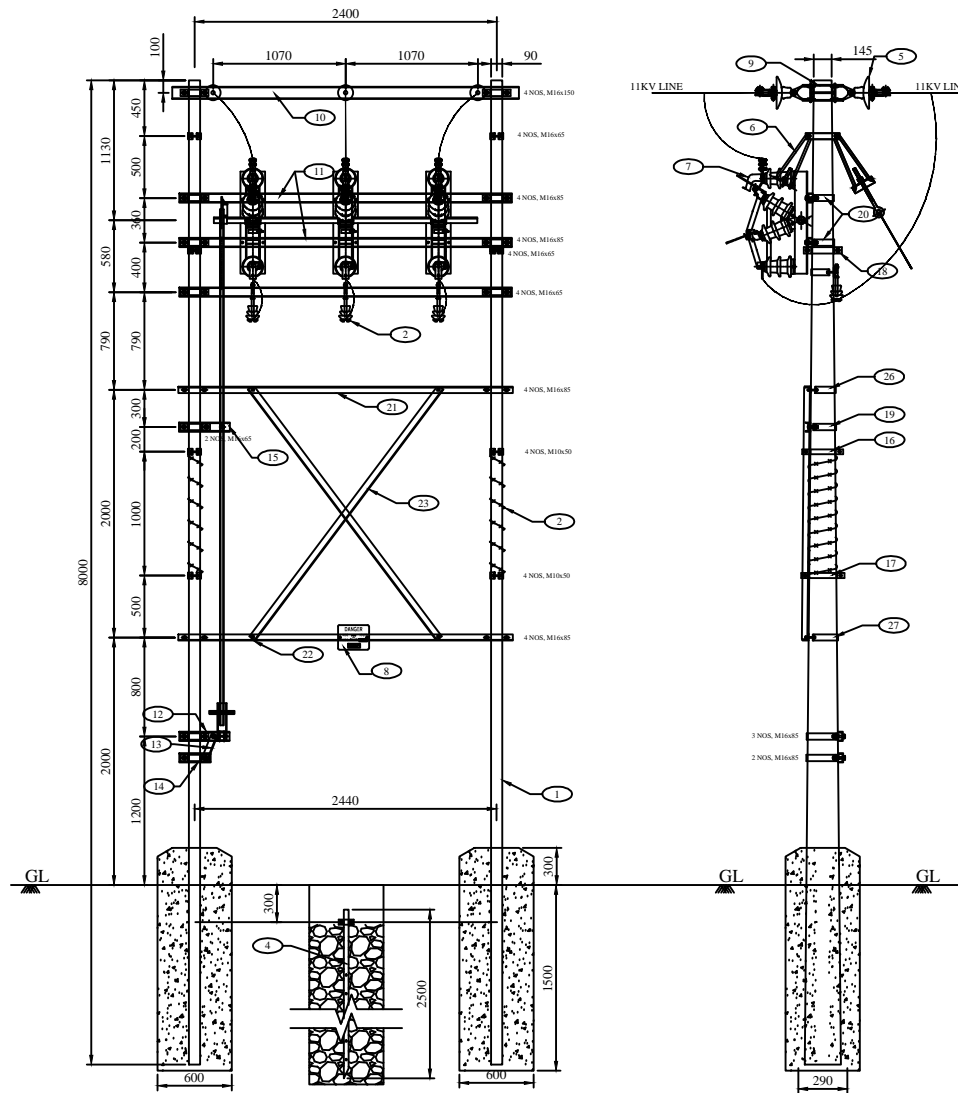
FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
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/DDUGJY/11KV/04B	2 OF 2	0

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



ELEVATION

SIDE VIEW

BILL OF MATERIALS				
SR. NO.	DESCRIPTION	SECTION	QTY.	
1	8mm200kg. PCC POLE		2 NOS.	
2	11KV PIN INSULATOR WITH G.I. PINS		3 SET	
3	BARBED WIRE		3.5m x 2	
4	PIPE EARTHING		3 SET	
5	11KV STRAIN INSULATOR		6 SET	
6	STAY SET ARRANGEMENT		4 SET	
7	11KV 400A AIR BREAK SWITCH		1 SET	
8	11KV DANGER BOARD		1 NO.	
9	FISH PLATE	50x8	6 NOS.	
10	TOP CHANNEL (100x50)	100x50	2 NOS.	
11	A.B. SWITCH MOUNTING CHANNEL (175x40)	75x40	2 NOS.	
12	CHANNEL SUPPORT FOR OPERATING HANDLE (75x40)	75x40	1 NO.	
13	ANGLE SUPPORT 'A' FOR OPERATING HANDLE	50x50x6	1 NO.	
14	CHANNEL SUPPORT 'B' FOR OPERATING HANDLE	75x40	1 NO.	
15	CHANNEL SUPPORT FOR OPERATING ROD (175x40)	75x40	2 NOS.	
16	TOP CLAMP FOR ANTI-CLIMBING DEVICE	40x5	2 SET	
17	BOTTOM CLAMP FOR ANTI-CLIMBING DEVICE	40x5	2 SET	
18	DUMMY CLAMP FOR A.B. SWITCH	50x8	2 SET	
19	TOP CLAMP FOR A.B. SWITCH OPERATING ROD	50x8	1 NO.	
20	CLAMP FOR AB SWITCH MOUNTING CHANNEL	50x8	4 NOS.	
21	TOP BELTING ANGLE	50x50x6	1 NO.	
22	BOTTOM BELTING ANGLE	50x50x6	1 NO.	
23	BRACING ANGLE	50x50x6	2 NOS.	
24	PIN INSULATOR SUPPORTING CHANNEL	75x40	1 NO.	
25	DUMMY CLAMP FOR STAY SET	50x8	2 SET	
26	CLAMP FOR TOP BELTING ANGLE	50x8	2 SET	
27	CLAMP FOR BOTTOM BELTING ANGLE	50x8	2 SET	
28	CLAMP FOR CHANNEL SUPPORT OF OPERATING HANDLE	50x8	2 NOS.	
29	CLAMP FOR PIN INSULATOR SUPPORTING CHANNEL	50x8	2 NOS.	

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- MANUFACTURING TOLERANCE  
 WRVQ720 o "O7"  
 73"VQ3220 o "O6"  
 323"VQ5220 o "O5"  
 CDQXG5220 o "O4"
- ALL M.S. PARTS SHALL CONFORM TO IS:2062.
- ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- ALL CLAMPS AND ANGLES SHALL CONFORM TO IS: SP6 PART-1 ALL CHANNELS SHALL BE ISLC CHANNELS.

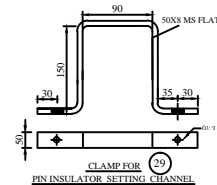
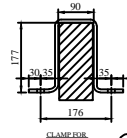
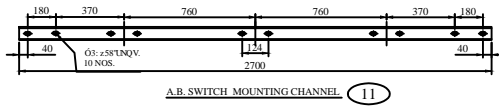
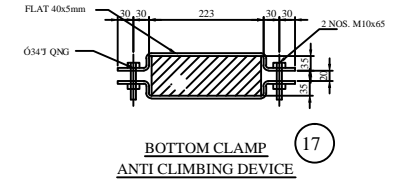
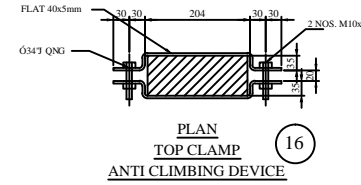
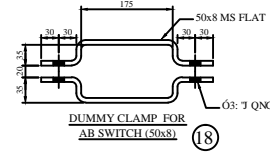
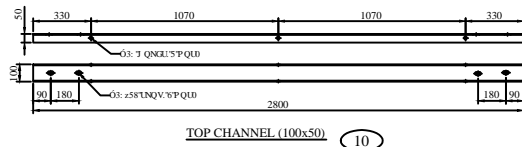
FOR TENDER PURPOSE ONLY



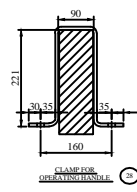
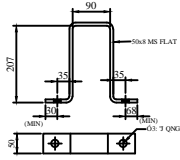
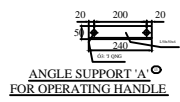
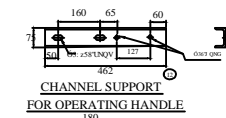
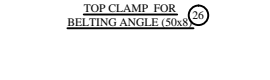
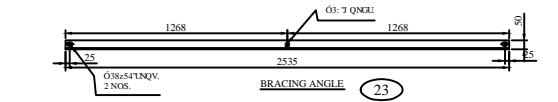
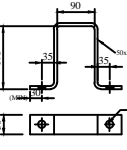
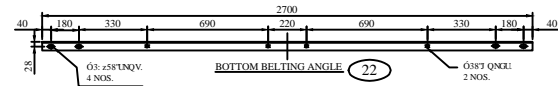
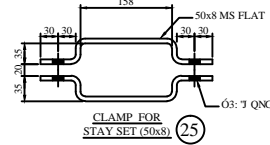
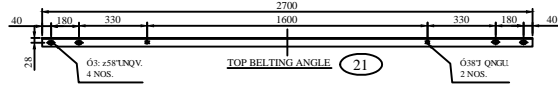
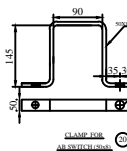
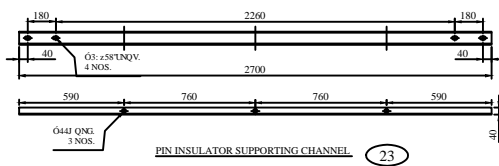
Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
TITLE:	GA OF 11KV LINE SECTIONALIZER ON PSC/ PSC POLE		
DATE:	SCALE NTS SIZE A3	DRG. NO. REC/DDUGJY/11KV/05A	REV. NO. R0 SHT. NO. 1 OF 2

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



FOR TENDER PURPOSE ONLY



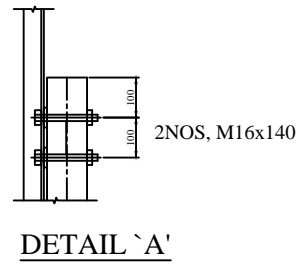
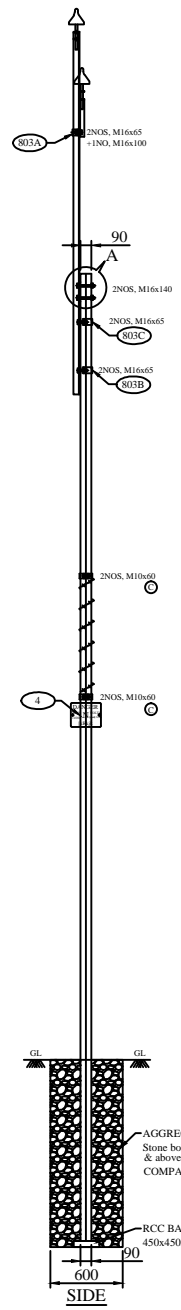
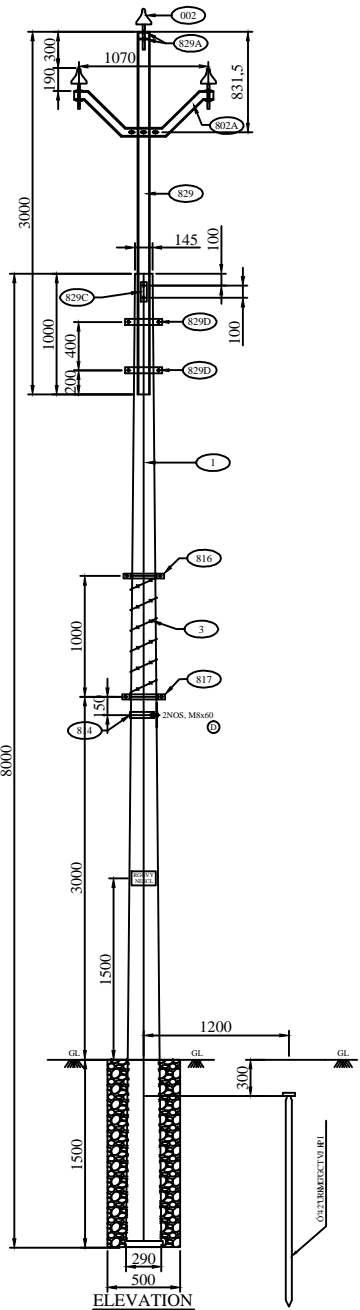
BILL OF MATERIALS							
SR. NO.	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	QTY.	TOTAL Wt. KG.
1	8m/200kg. PCC POLE					2 NOS.	
2	11KV PIN INSULATOR WITH G.I. PINS					3 SET	
3	BARBED WIRE					3.5m x 2	
4	PIPE EARTHING					1 SET	
5	11KV STRAIN INSULATOR					6 SET	
6	STAY SET ARRANGEMENT					4 SET	
7	11KV 400A AIR BREAK SWITCH					1 SET	
8	11KV DANGER BOARD					1 NO.	
9	FISH PLATE	50x8	M.S.	327	3.14	6 NOS.	6.161
10	TOP CHANNEL ( 100x50 )	100x50	M.S.	2800	7.9	2 NOS.	44.240
11	A.B. SWITCH MOUNTING CHANNEL ( 175x40 )	75x40	M.S.	2700	5.7	2 NOS.	30.780
12	CHANNEL SUPPORT FOR OPERATING HANDLE ( 75x40 )	75x40	M.S.	460	5.7	1 NO.	2.622
13	ANGLE SUPPORT 'A' FOR OPERATING HANDLE	50x50x6	M.S.	240	4.5	1 NO.	1.080
14	CHANNEL SUPPORT 'B' FOR OPERATING HANDLE	75x40	M.S.	260	5.7	1 NO.	2.206
15	CHANNEL SUPPORT FOR OPERATING ROD ( 175x40 )	75x40	M.S.	390	5.7	2 NOS.	2.223
16	TOP CLAMP FOR ANTI-CLIMBING DEVICE	40x5	M.S.	487+487	1.6	2 SET	3.117
17	BOTTOM CLAMP FOR ANTI-CLIMBING DEVICE	40x5	M.S.	499+499	1.6	2 SET	3.194
18	DUMMY CLAMP FOR A.B. SWITCH	50x8	M.S.	427+427	3.14	2 NOS.	5.363
19	TOP CLAMP FOR A.B. SWITCH OPERATING ROD	50x8	M.S.	626	3.14	1 SET	1.966
20	CLAMP FOR AB SWITCH MOUNTING CHANNEL	50x8	M.S.	640	3.14	4 NOS.	8.038
21	TOP BELTING ANGLE	50x50x6	M.S.	2700	4.5	1 NO.	1.080
22	BOTTOM BELTING ANGLE	50x50x6	M.S.	2700	4.5	1 NO.	1.080
23	BRACING ANGLE	50x50x6	M.S.	2700	4.5	2 NOS.	1.080
24	PIN INSULATOR SUPPORTING CHANNEL	75x40	M.S.	2700	5.7	1 NO.	1.482
25	DUMMY CLAMP FOR STAY SET	50x8	M.S.	427+427	3.14	2 SET	5.363
26	CLAMP FOR TOP BELTING ANGLE	50x8	M.S.	592	3.14	2 SET	3.717
27	CLAMP FOR BOTTOM BELTING ANGLE	50x8	M.S.	626	3.14	2 SET	3.931
28	CLAMP FOR CHANNEL SUPPORT OF OPERATING HANDLE	50x8	M.S.	726	3.14	2 NOS.	4.559
29	CLAMP FOR PIN INSULATOR SUPPORTING CHANNEL	50x8	M.S.	516	3.14	2 NOS.	3.240



Rural Electrification Corporation Ltd.

PROJECT:	Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)		
TITLE:	GA OF 11KV LINE SECTIONALIZER ON PCC / PSC POLE		
DATE:	SCALE NTS	DRG. NO.	REV. NO.
14.01.09	A3	REC/DDUGJY/11KV/05B	R0
			SHT. NO. 2 OF 2

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



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

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE  
 $WRVQ \ 720 \ o \ 7^{\circ}07'$   
 $73^{\circ}VQ \ 3220 \ o \ 7^{\circ}06'$   
 $323^{\circ}VQ \ 5220 \ o \ 7^{\circ}05'$   
 $CDQXG \ 5220 \ o \ 7^{\circ}04'$
  - 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

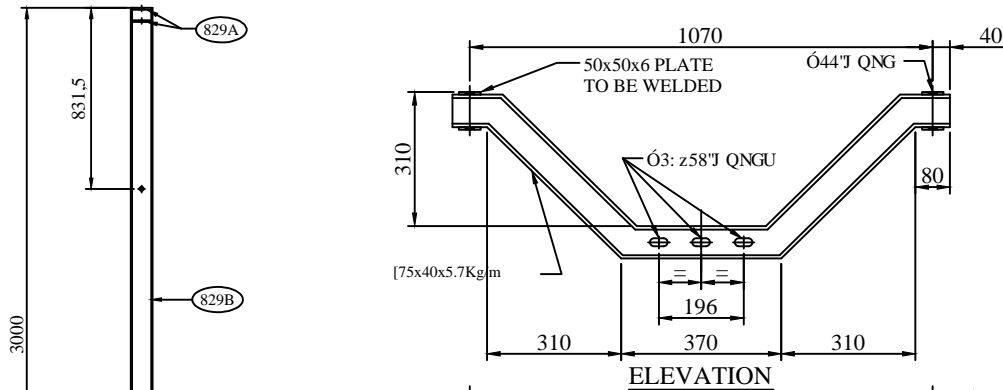
**Rural Electrification Corporation Ltd.**

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

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

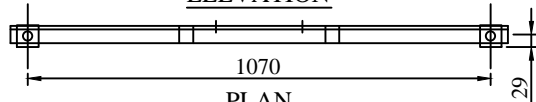
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/11KV/6A	1 OF 2	0

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

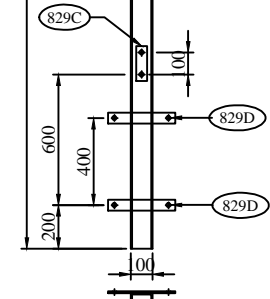


[75x40x5.7Kg/m

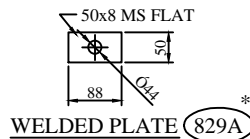
ELEVATION



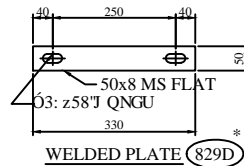
PLAN  
V-CROSS ARM (802A)



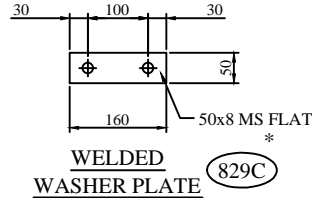
V CROSS ARM  
SUPPORTING CHANNEL (829)



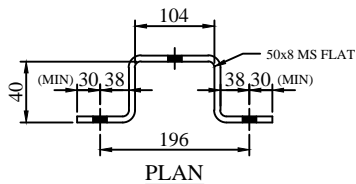
WELDED PLATE (829A)



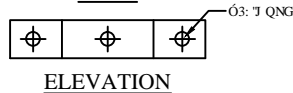
WELDED PLATE (829D)



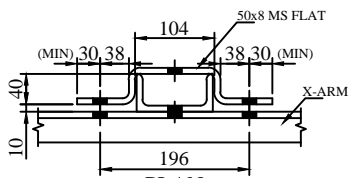
WELDED  
WASHER PLATE (829C)



PLAN

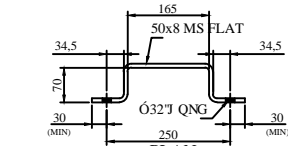


ELEVATION

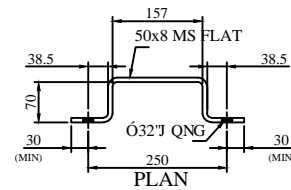


PLAN

CLAMPS &  
X-ARM ASSEMBLY (803A)



BACK CLAMP FOR (803B)  
V-CROSS ARM SUPPORTING CHANNEL



PLAN

BACK CLAMP FOR (803C)  
V-CROSS ARM SUPPORTING CHANNEL

BILL OF MATERIAL

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG/mtr.	QTY.	TOTAL Wt. KG.
802A	V CROSS ARM	75x40	M.S.	1398.36	5.7	1 NO.	7.970
829	V-CROSS ARM SUPPORTING CHANNEL (3MEXTN)	100x50	M.S.	3000	9.56	1 NO.	28.68
829A	WELDED PLATE	50x8	M.S.	88	3.14	1 NO.	0.276
829D	WELDED PLATE	50x8	M.S.	330	3.14	2 NOS.	2.072
829C	WELDED WASHER PLATE	50x8	M.S.	160	3.14	1 NO.	0.502
803A	BACK CLAMP FOR V CROSS ARM	50x8	M.S.	336	3.14	1 NO.	1.055
814	CLAMP FOR DANGER BOARD	30x3	M.S.	660	0.701	1 NO.	0.462
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
803B	B.C. FOR V CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	450	3.14	1 NO.	1.413
803C	B.C. FOR V CROSS ARM SUPPORTING CHANNEL	50x8	M.S.	451	3.14	1 NO.	1.416
SPKE	6mm ROD		M.S.	125	0.22	56 NOS.	1.540
<b>TOTAL</b>							<b>47.972</b>

DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL Wt. KG.
NUTS & BOLTS	M16		140	0.283	2 NOS.	0.566
NUTS & BOLTS	M16		100	0.220	1 NO.	0.220
NUTS & BOLTS	M16		65	0.164	6 NOS.	0.984
NUTS & BOLTS	M10		60	0.055	4 NOS.	0.220
NUTS & BOLTS	M8		60	0.05	2 NOS.	0.100
SPRING WASHERS	M16		3.5 THK.	0.009	9 NOS.	0.081
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	9 NOS.	0.135
PLAIN WASHER	M10		3 THK.	0.005	4 NOS.	0.02
PLAIN WASHER	M8		3 THK.	0.004	2 NOS.	0.08
<b>TOTAL</b>						<b>2.422</b>

GENERAL NOTES:

- \* 829A, 829D, 829C SHALL BE WELDED TO ITEM NO. 829
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE  
 WRVQ 720 o / "O7"  
 73 "VQ 3220 o / "O6"  
 323 "VQ 5220 o / "O5"  
 CDQXG 5220 o / "O4"
- 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



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

TITLE

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

SIZE SCALE DRG. NO.

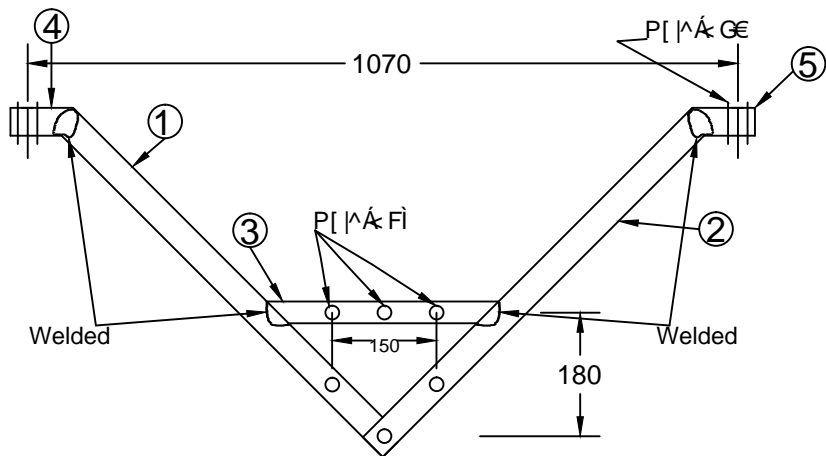
A3 NTS

REC/DDUGJY/11KV/6B

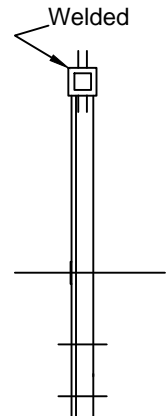
SHT. NO. REV. NO.

2 OF 2 0

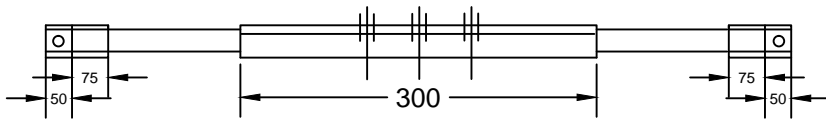
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RD					



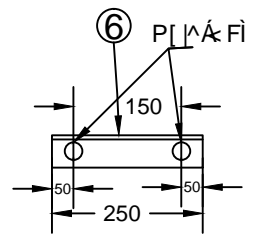
ELEVATION



END VIEW



PLAN



BACK CLEAT

11KV 'V' Cross-Arm

BILL OF MATERIAL

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

FOR TENDER PURPOSE ONLY

All Dimensions are in mm.



Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

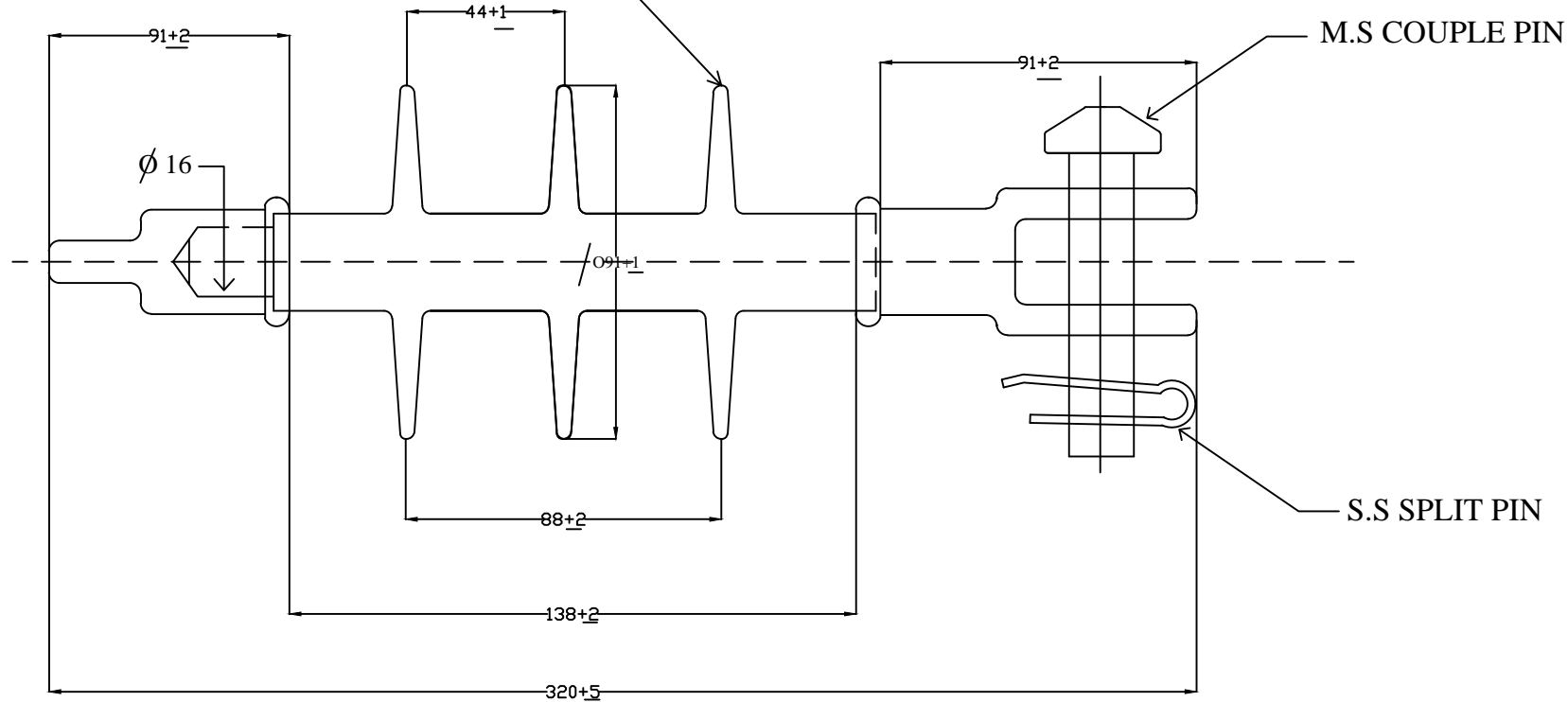
TITLE: 11KV Bridling 'V' CROSS-ARM

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



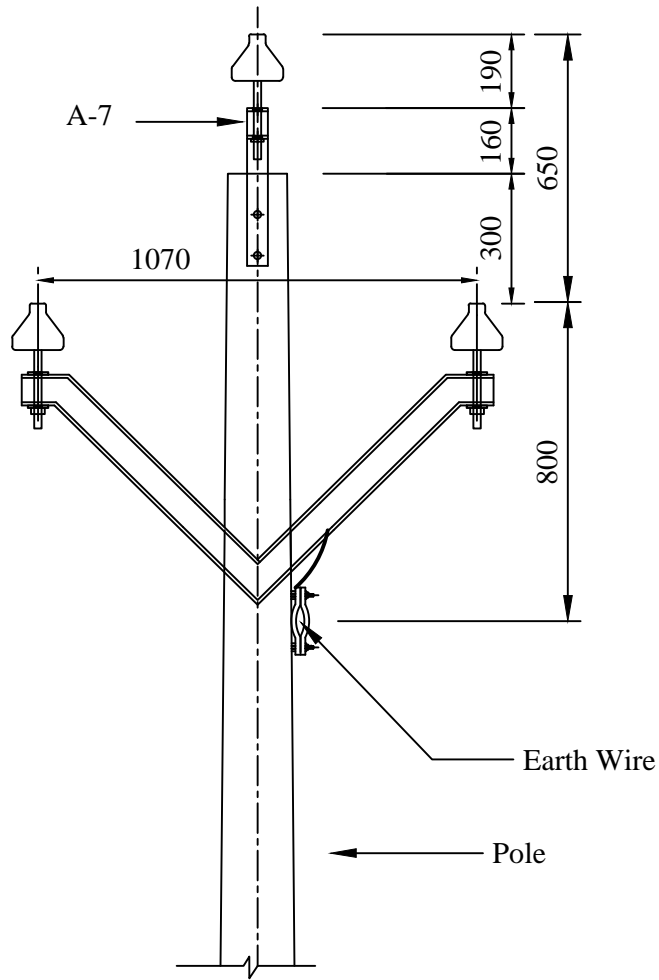
SILICONE RUBBER HOUSING



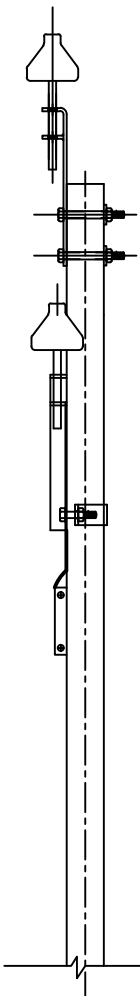
FOR TENDER PURPOSE ONLY

	Rural Electrification Corporation Ltd.	
	PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)	
TITLE: 11 KV 45KN COMPOSITE INSULATOR		
SIZE SCALE: AS NOTED	DRG. NO.: REC/DDUGJY/11kV/08	SHT. NO. REV. NO.: 1 OF 1 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



**ELEVATION**



**END VIEW**

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.

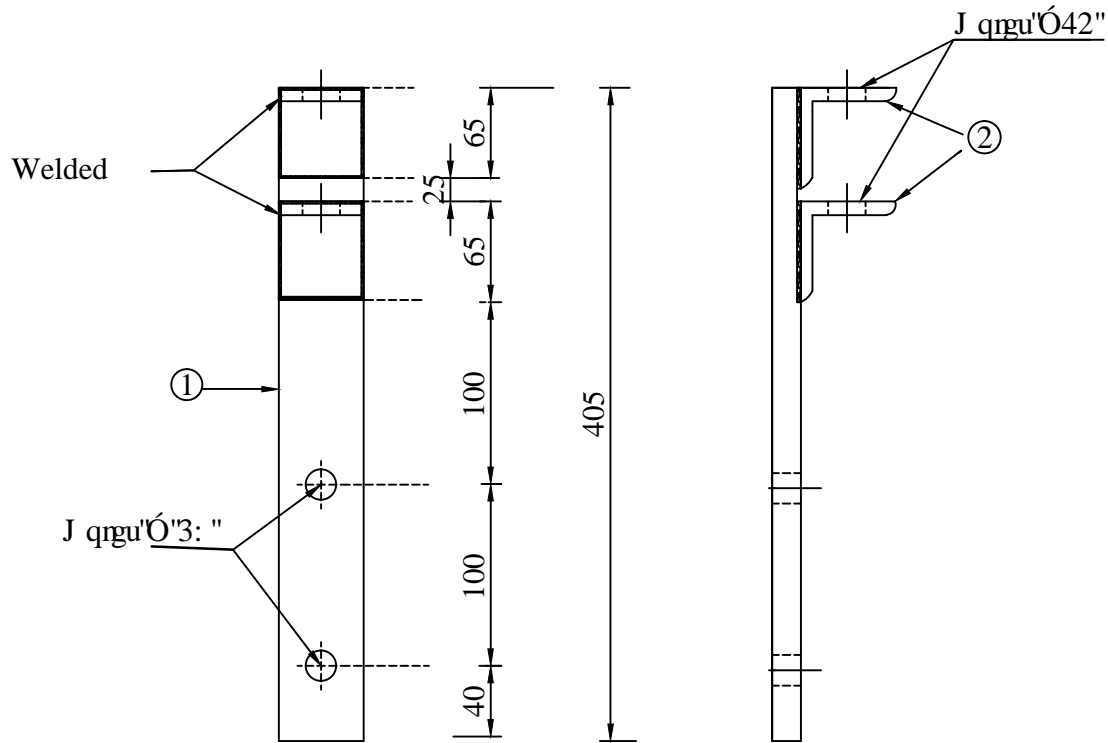


**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)**

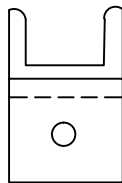
TITLE: **11 KV LINES CONDUCTOR FORMATION AND CLEARANCE WITH EARTH WIRE**

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						<b>A3</b>	<b>NTS</b>	<b>REC/DDUGJY/11KV/09</b>	<b>1 OF 1</b>	<b>0</b>



**ELEVATION**

**END VIEW**



**Plan**

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

All Dimensions in mm

**FOR TENDER PURPOSE ONLY**



Rural Electrification Corporation Ltd.

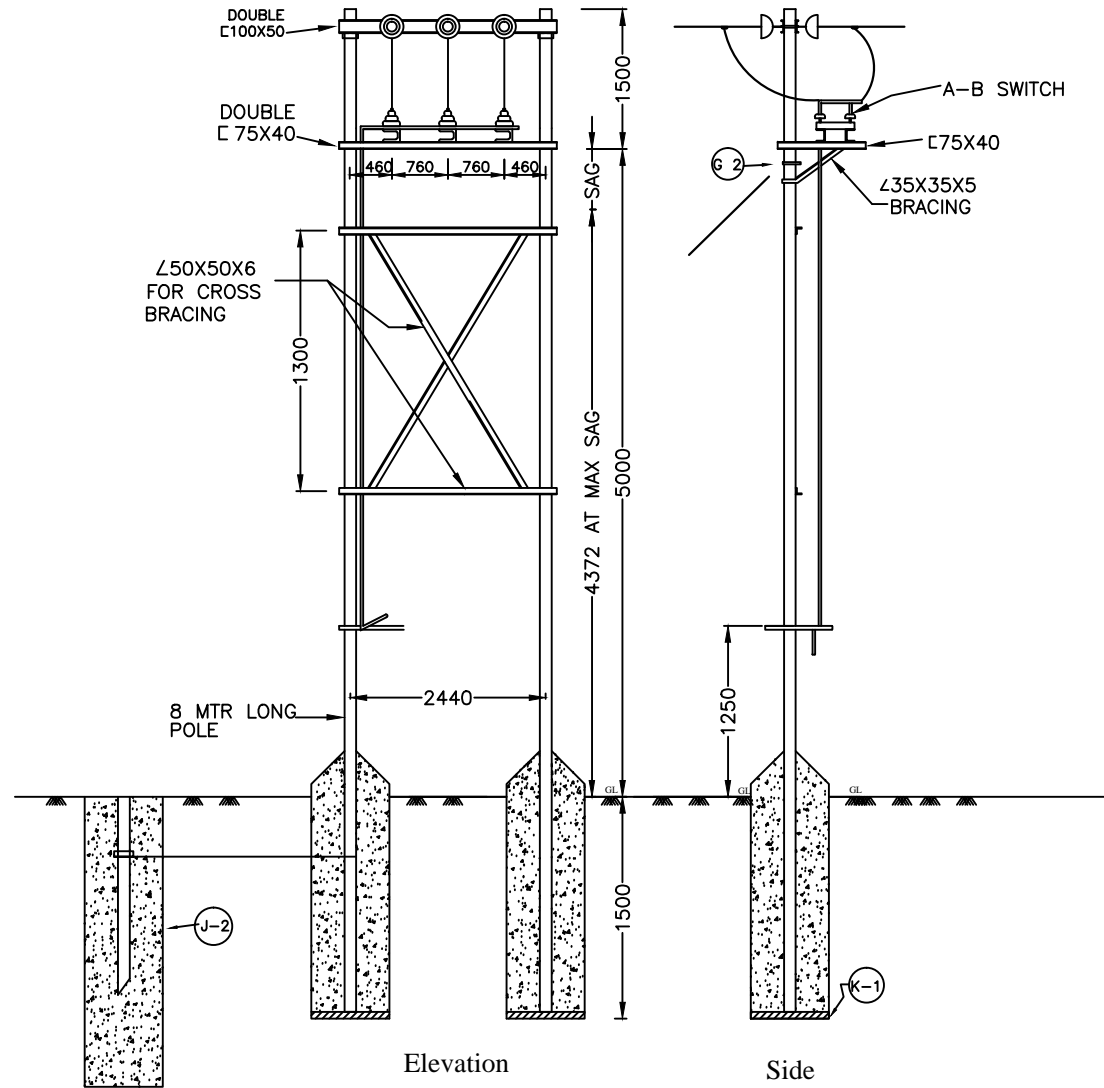
PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)

TITLE

11 KV LINE POLE TOP BRACKET

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




**BILL OF MATERIAL**

P.C.C SUPPORTS	8 MTR LONG	1 Nos.
CHANNELS (FOR V-CROSS ARM)	REFER REC CONST. STD A-6	1 Nos.
CHANNELS (FOR HORIZONTAL CROSS ARM)	75X40-1150(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.
PIPE/ROD 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

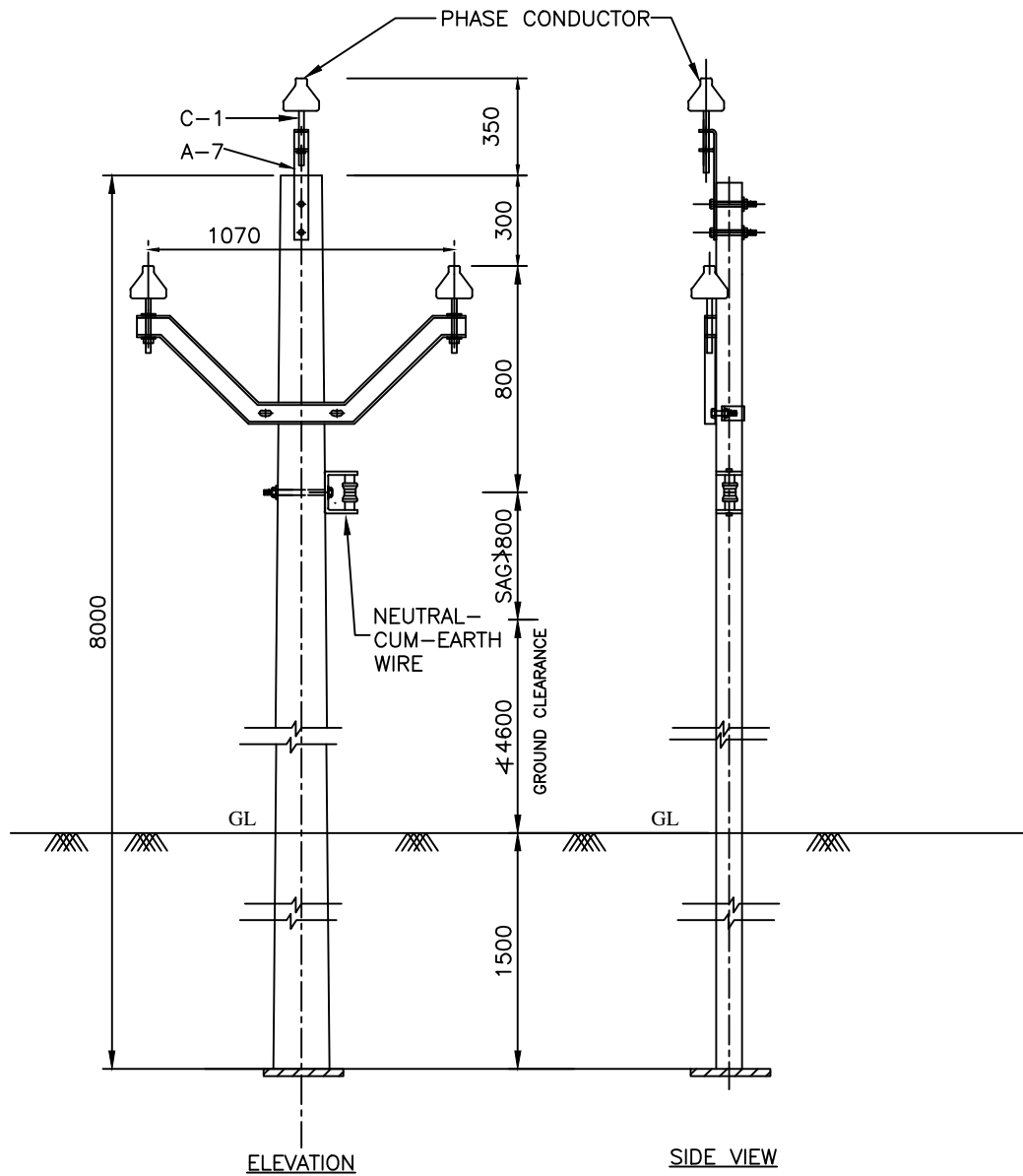
NOTE-MAXIMUM SPAN BETWEEN THE TAPPING POLE AND ADJACENT POLE OF THE BRANCH LINE - 50 MTR.

**FOR TENDER PURPOSE ONLY**

	<b>Rural Electrification Corporation Ltd.</b>			
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojna (DDUGJY)				
<b>TITLE:</b> 11 KV LINES TAPPING ARRANGEMENT for SPUR LINE				
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/11KV/11	<b>SHT. NO.</b> 1 OF 1	<b>REV. NO.</b> 0

ALL DIMENSIONS ARE IN MM.

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



ALL DIMENSIONS ARE IN MM.

**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 $\phi$	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**

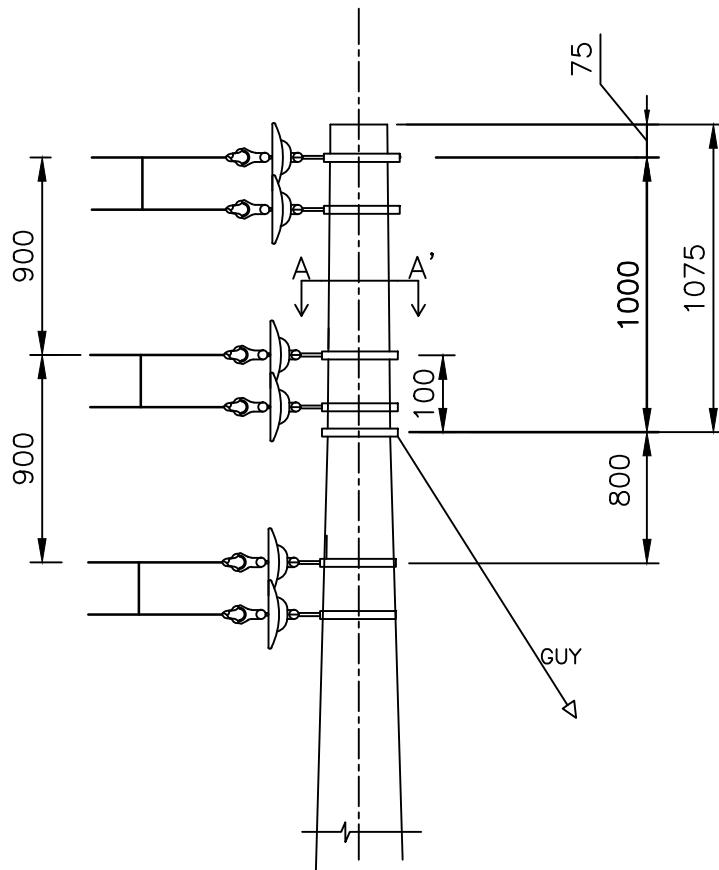


Rural Electrification Corporation Ltd.

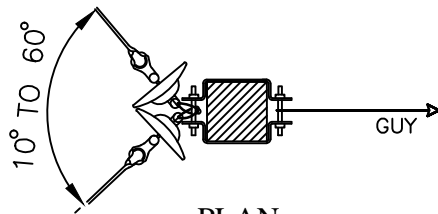
PROJECT: RGGVY-XII Plan Projects

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

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/DDUGJY/11KV/12	1 OF 1	0



ELEVATION



PLAN  
AT A-A'

ALL DIMENSIONS ARE IN MM.

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.

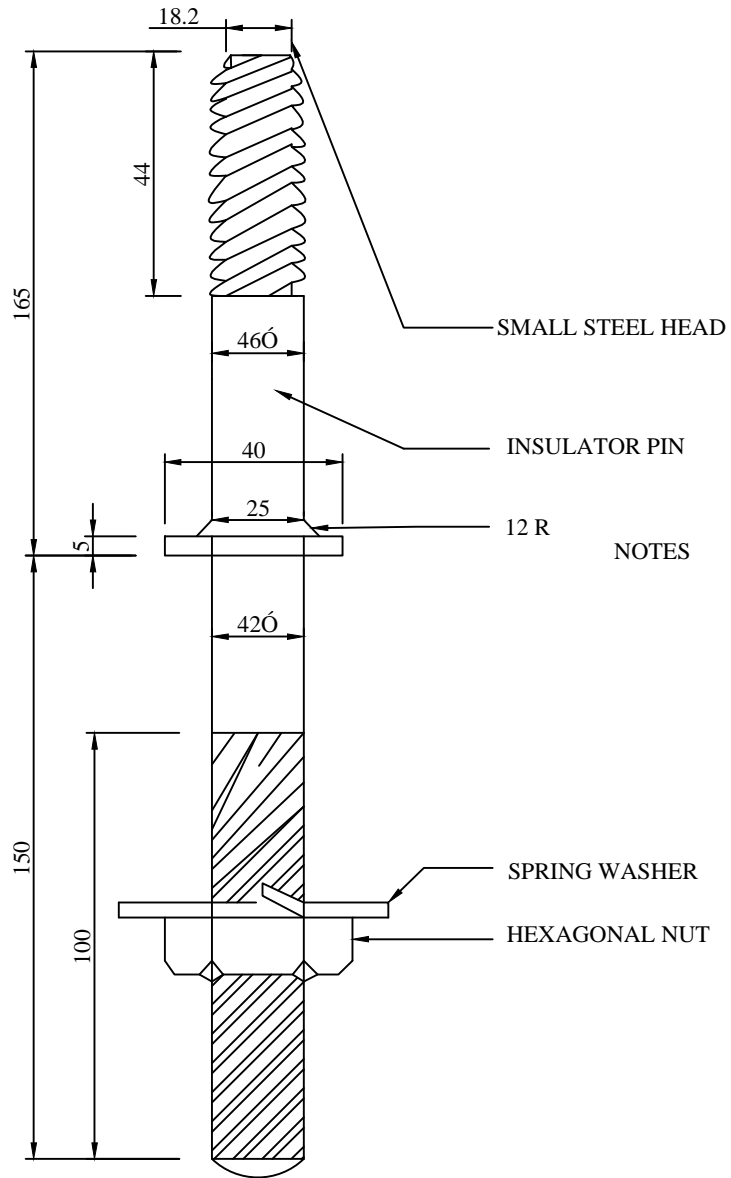
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/11KV/13	1 OF 1	0

RD					
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 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**

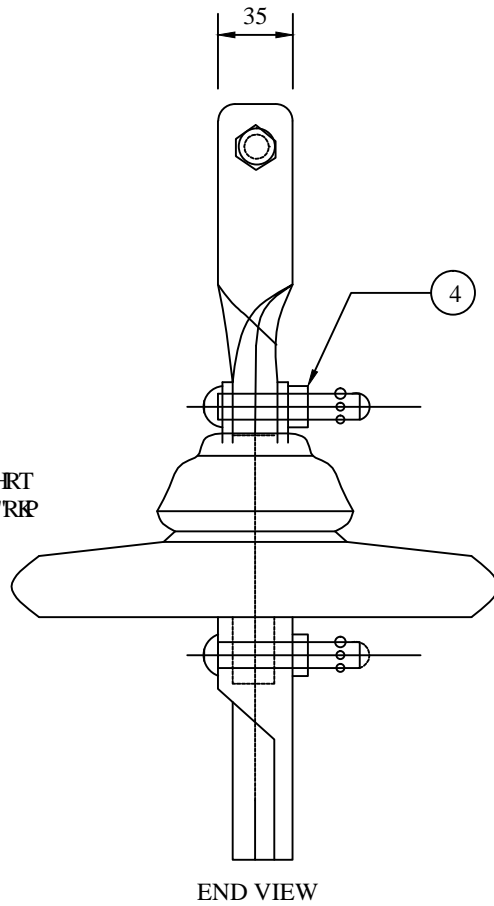
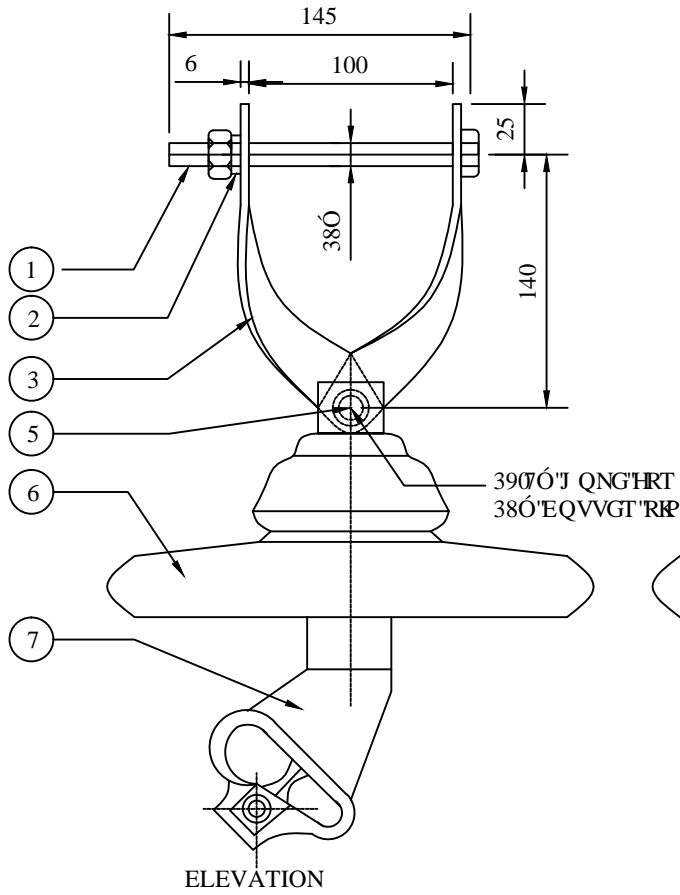
<b>आर ई सी</b> <b>REC</b> <small>असमिता कर्म, अमान सम्मलनाम्</small> <small>विद्यया अमृतम्, विद्यायाः शान्तिः</small>		<b>Rural Electrification Corporation Ltd.</b>		
PROJECT: <b>Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)</b>				
TITLE: <b>GI PIN</b>				
SIZE <b>A3</b>	SCALE <b>NTS</b>	DRG. NO. <b>REC/DDUGJY/11KV/15</b>	SHT. NO. <b>1 OF 1</b>	REV. NO. <b>0</b>

TYPE S 165  
IS:2488 (PART-II)

PIN INSULATOR

RO							
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT		





ELEVATION

END VIEW

S.No.	BILL OF MATERIAL	QTY.
3	3*****DQNV"/"P W"/"32ÓZ367*****3	3
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:

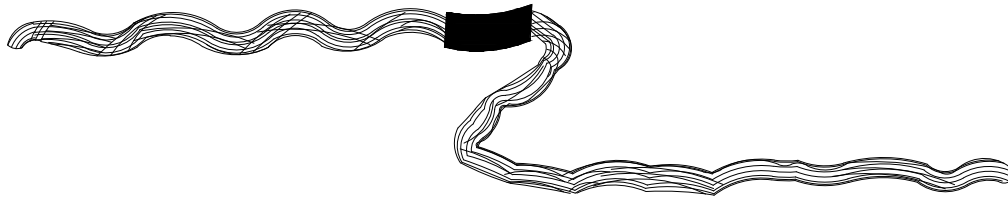
**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

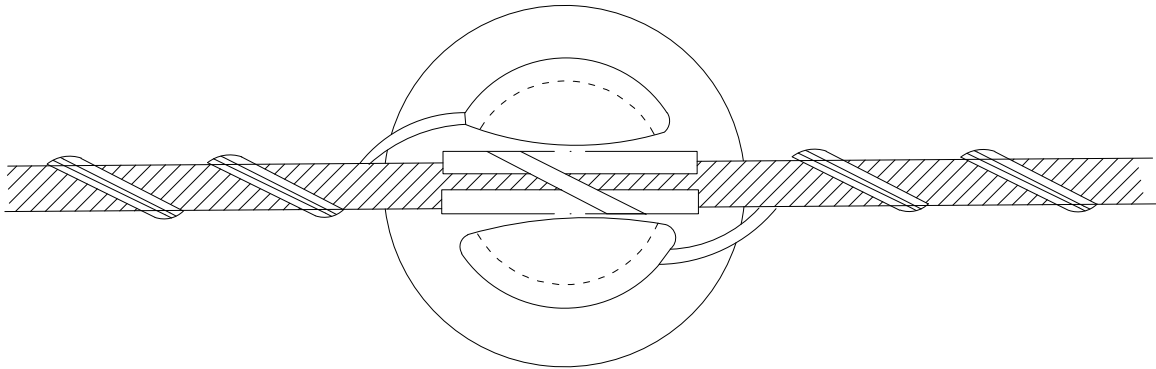
**Clevis & Tongue Type Strain Insulator Set**

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



DISTRIBUTION TIE



DISTRIBUTION TIE IN POSITION ON 11KV PIN INSULATOR

FOR TENDER PURPOSE ONLY



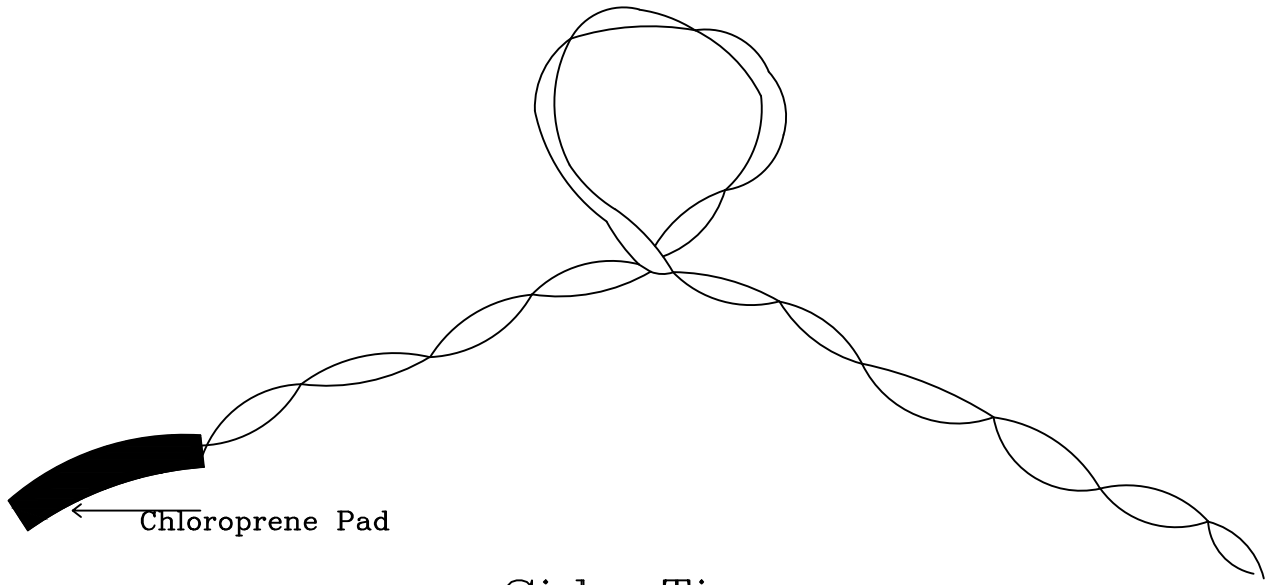
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

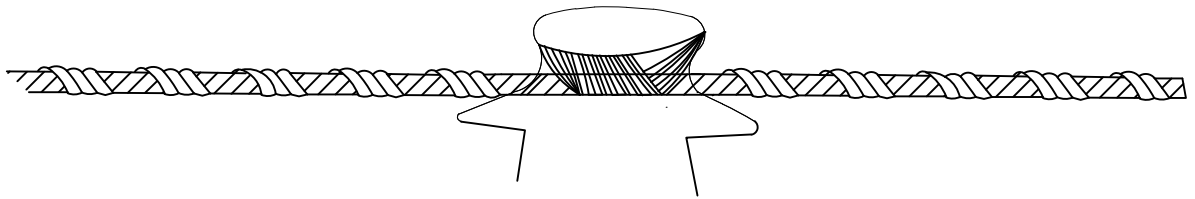
TITLE: Holding of Conductor on 11 KV Pin Insulator Straight Run (Using Helically Formed Fitting)

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/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:

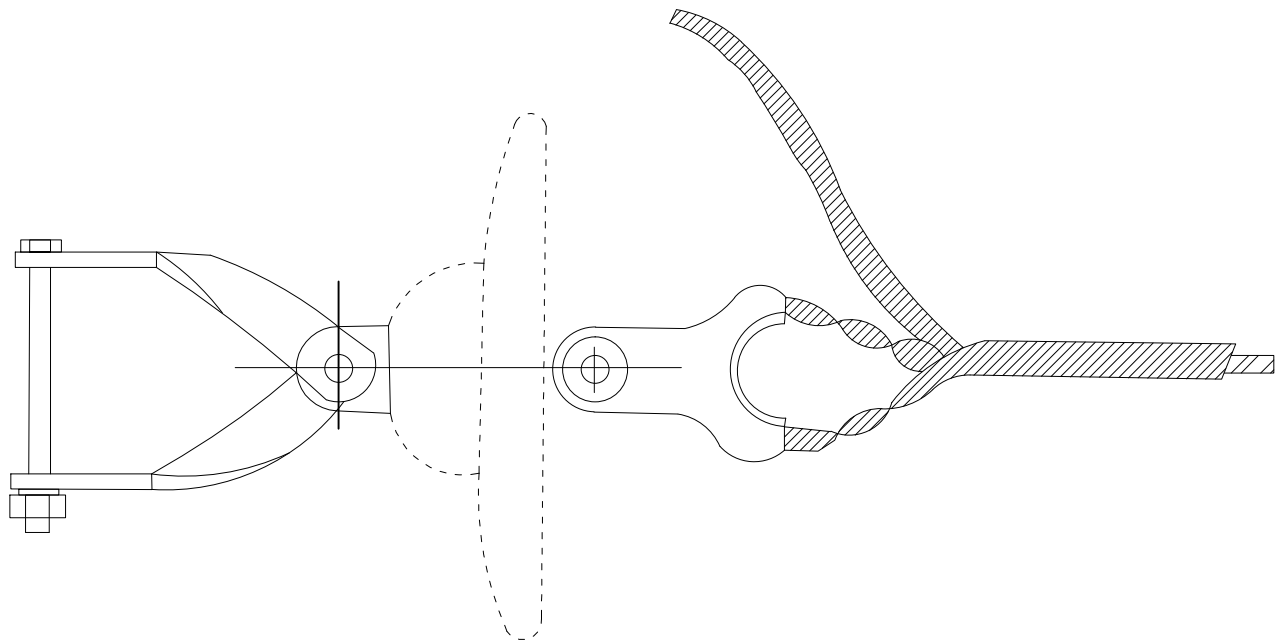
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

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

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



11kV CONDUCTOR DEAD-END FITTING IN POSITION

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

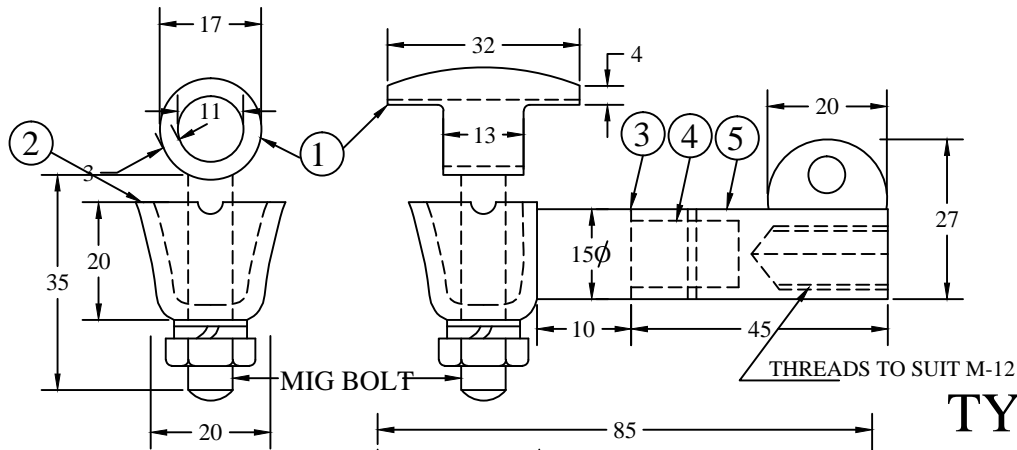
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

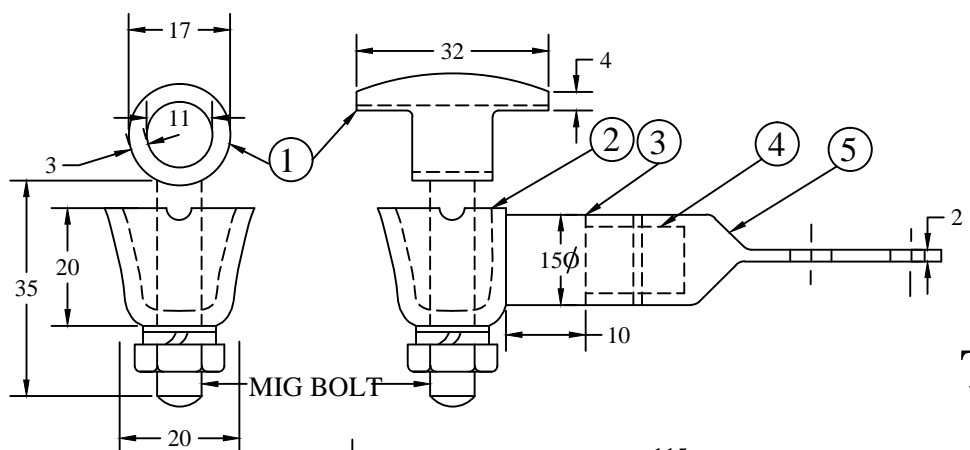
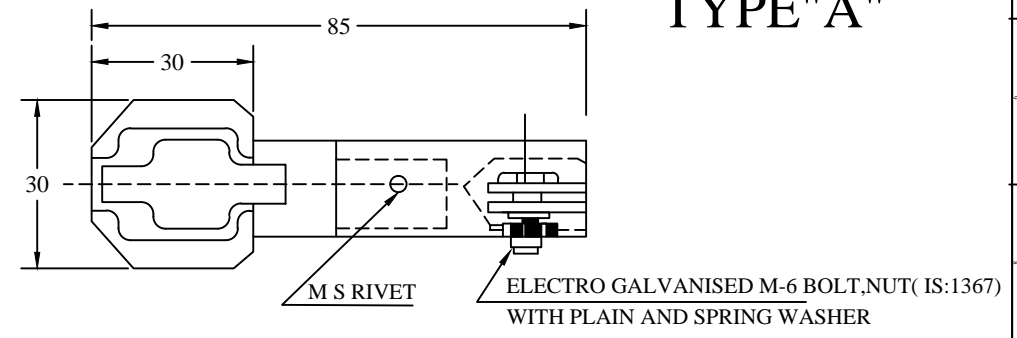
11KV Conductor Dead-End Arrangement  
(Using Helically Formed Fitting)

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

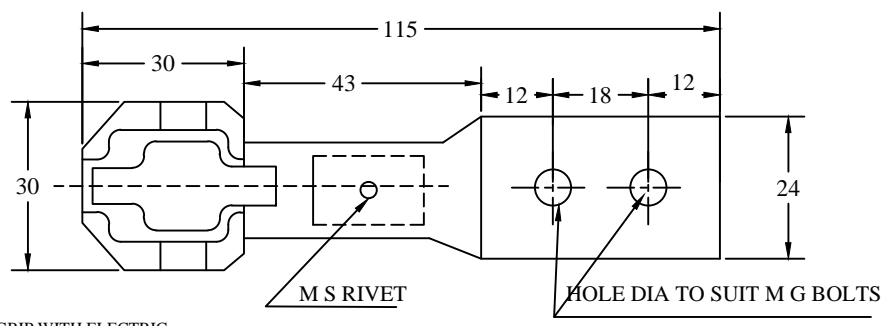
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/11KV/19	1 OF 1	0



**TYPE "A"**



**TYPE "B"**



**NOTES:-**

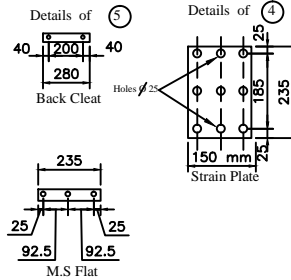
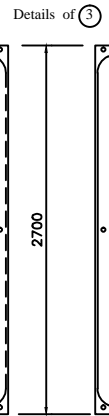
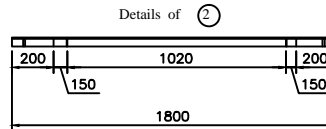
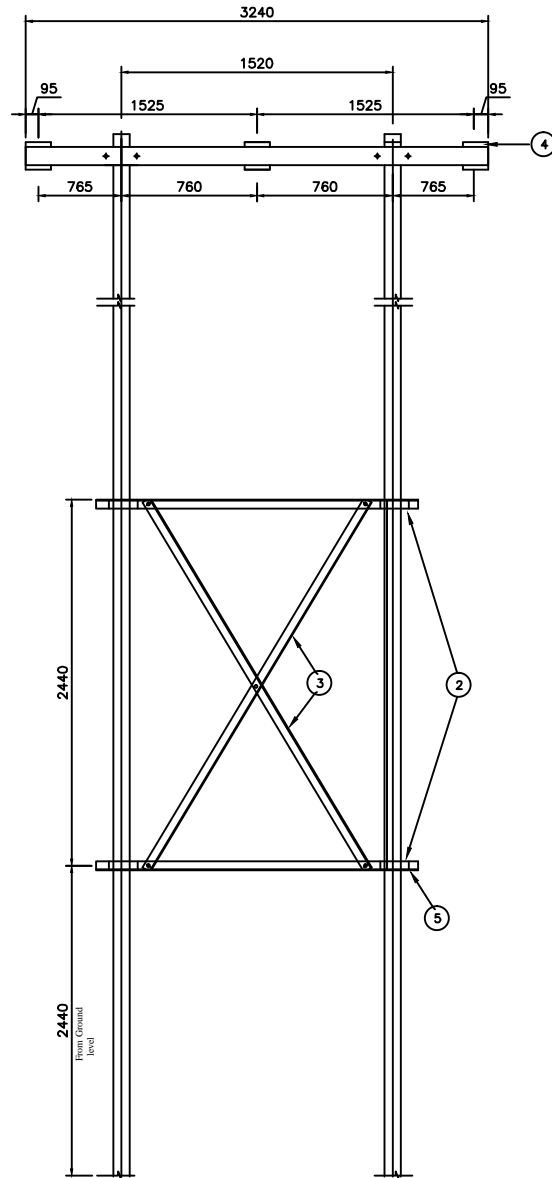
1. ALUMINIUM ALLOY 'A-11' CONNECTOR GRIP WITH ELECTRIC GALVANIZED M10 BOLT ,NUT WITH PLAIN AND SPRING WASHERS TO GRIP THE CONDUCTOR IN HORIZONTAL AND VERTICAL DIRECTIONS.
2. ALUMINIUM ALLOY 'A-11'(IS:617-1975)BODY.
3. EPOXY SEAL TO GUARD AGAINST ATMOSPHERIC EFFECTS.
4. HIGH PRESSURE FIT JOINT BETWEEN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

ALL DIMENSIONS ARE IN MM.

**FOR TENDER PURPOSE ONLY**

	<p><b>REC</b> Rural Electrification Corporation Ltd.</p>	
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
TITLE: Bimetallic Connector (H. T.) for 11kV Distribution Transformer		
SIZE: A3	SCALE: NTS	DRG. NO.: REC/DDUGJY/11KV/20
SHT. NO.: 1 OF 1	REV. NO.: 0	

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



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

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

### 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 50x50x6 = 2700 Long	2 Nos.
4.	Strain Plate	3 Nos.
5.	M.S Angle 65X65X6 = 280 Long	4 Nos.
6.	M.S Clamp 50x8	4 Nos.
7.	Nut Bolts	As reqd.

**FOR TENDER PURPOSE ONLY**

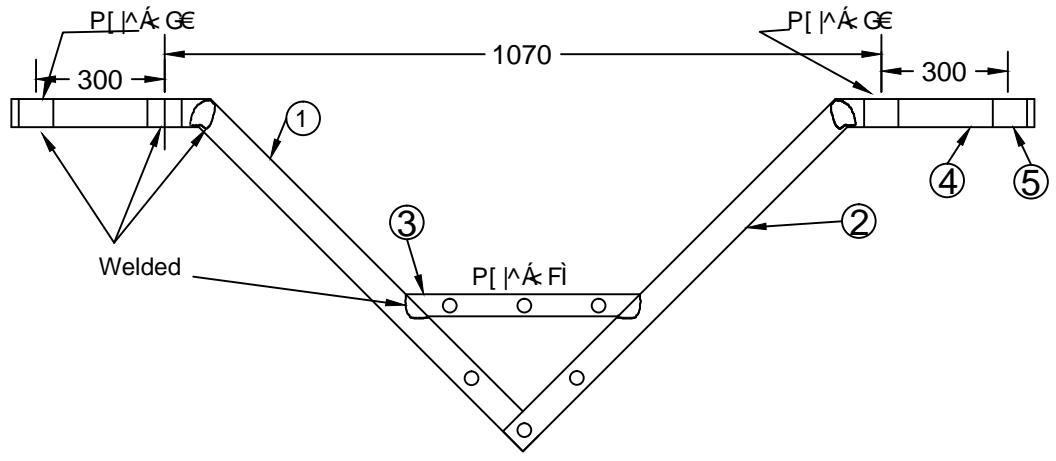


Rural Electrification Corporation Ltd.

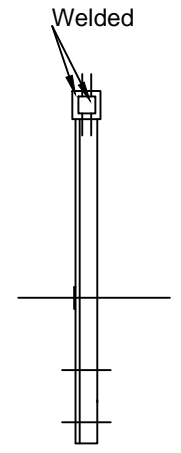
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

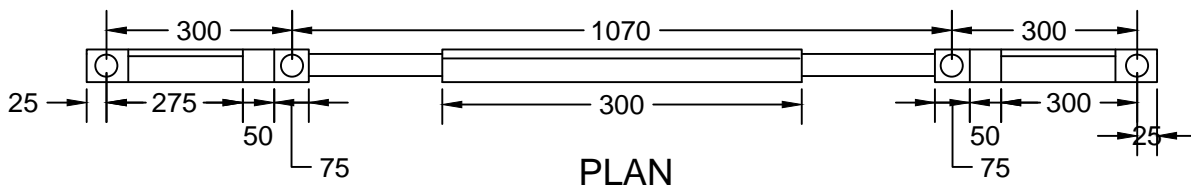
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/DDUGJY/11KV/21	1 OF 1	0



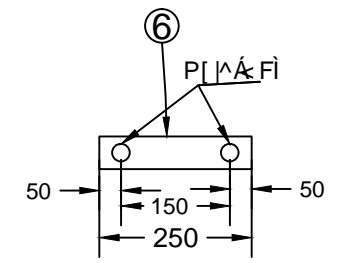
ELEVATION



END VIEW




PLAN

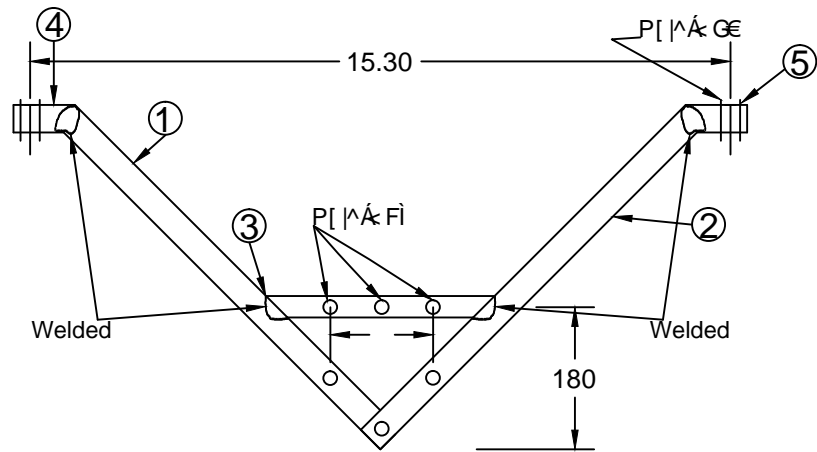


BACK CLEAT

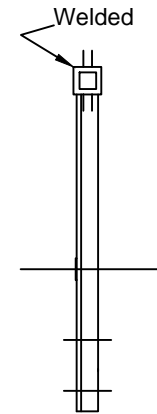
FOR TENDER PURPOSE ONLY

		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> 11KV Bridling 'V' Cross-Arm				
<b>SIZE:</b> A3	<b>SCALE:</b> NTS	<b>DRG. NO.:</b> REC/DDUGJY/11KV/22	<b>SHT. NO.:</b> 1 OF 1	<b>REV. NO.:</b> 0

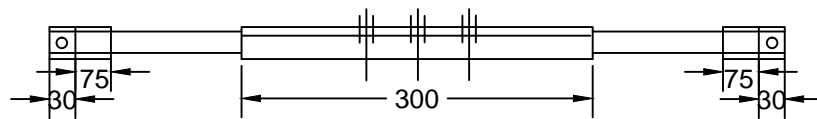
RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



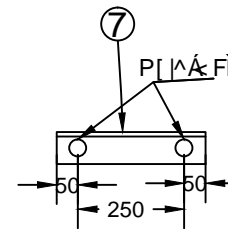
ELEVATION



END VIEW



PLAN



BACK CLEAT

FOR TENDER PURPOSE ONLY

11KV 'V' Cross-Arm



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

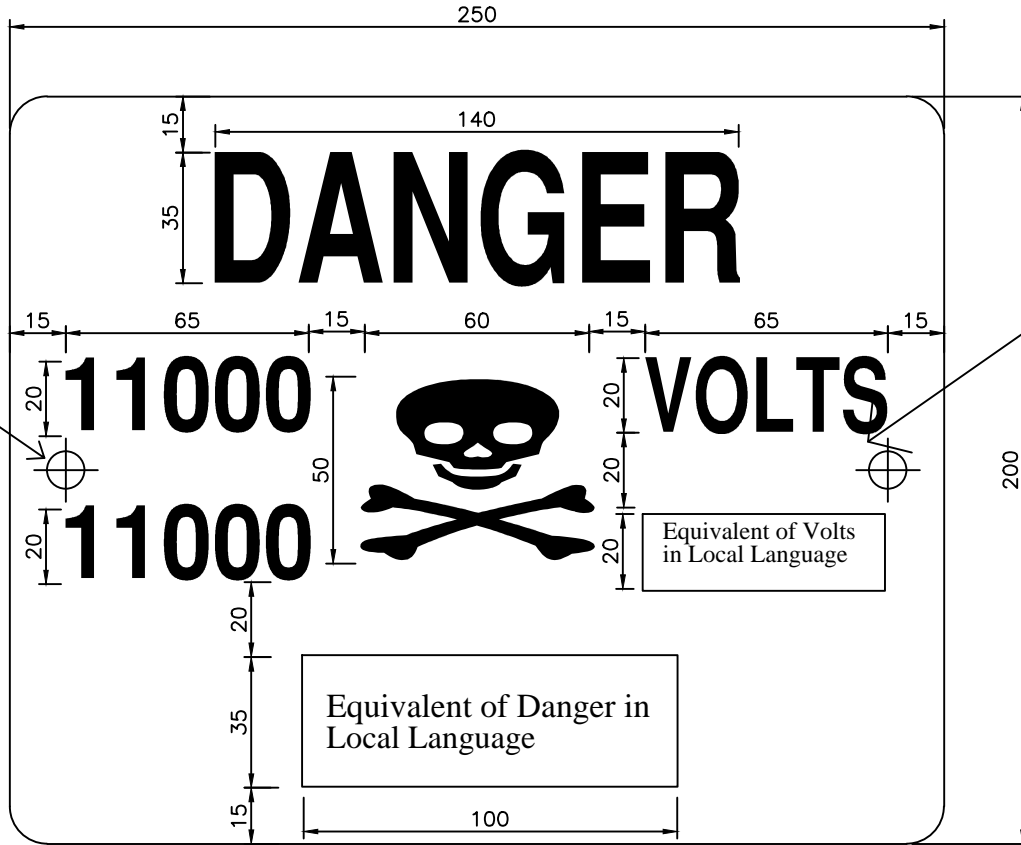
TITLE

11KV 'V' Cross-Arm

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





J QNGU'Ó320 O

**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(IS 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	<07'
51 TO 100mm	<06'
101 TO 300mm	<05'
ABOVE 300mm	<04'

**FOR TENDER PURPOSE ONLY**



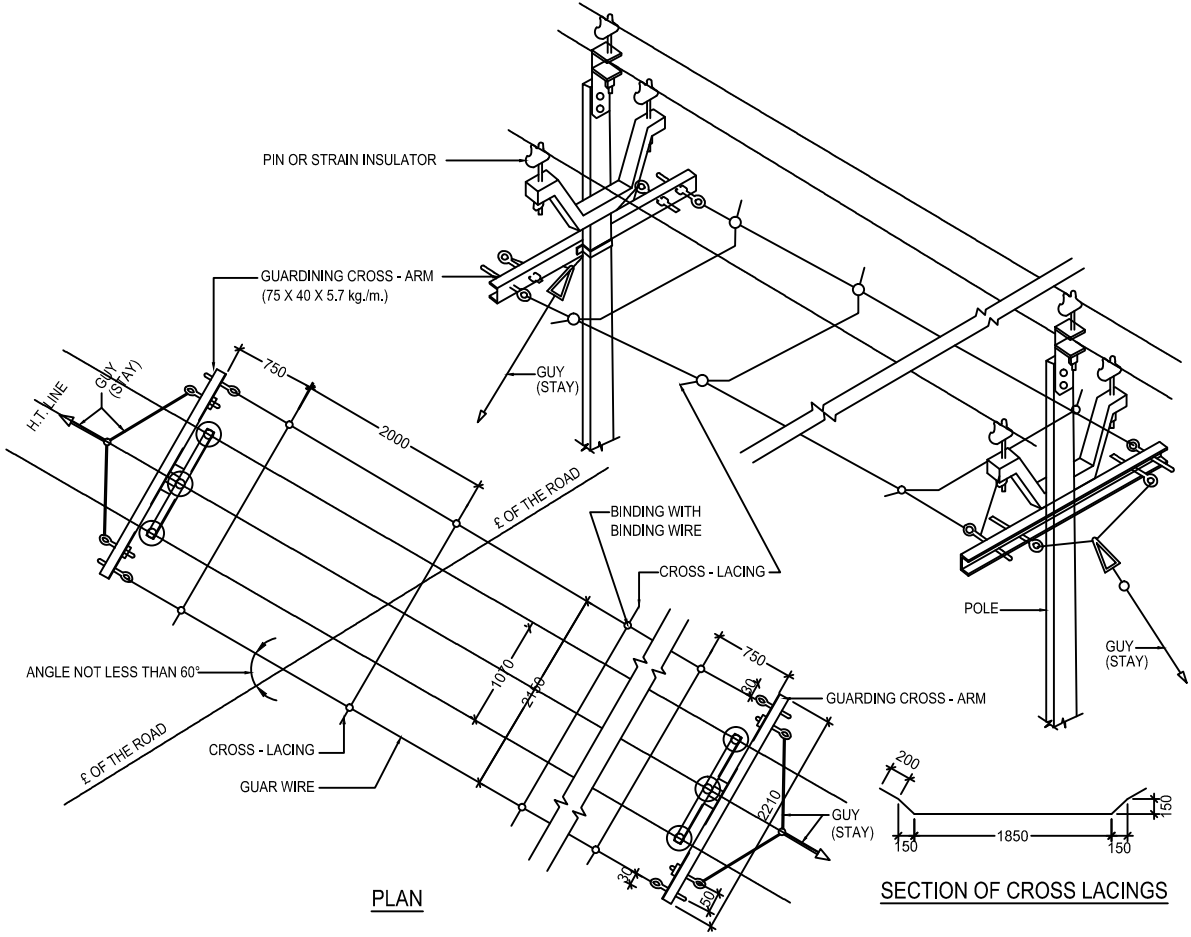
**Rural Electrification Corporation Ltd.**

**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

**TITLE: 11 kV DANGER BOARD**

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



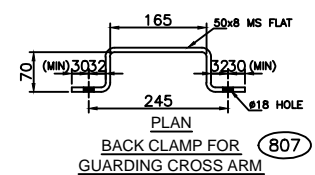
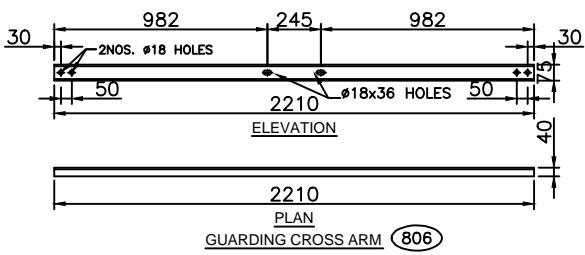
BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
006	PIPE EARTHING FOR POLES ON EITHER SIDE	2 SET	REC-XII Plan-GEN-006
008	Y - GUYS (STAY)	2 SET	REC-XII Plan-GEN-007
010	GUARD WIRES	AS REQD.	
806	GUARDING CROSS - ARM	2 NOS.	REC-XII Plan-11KV-011
	EYE BOLTS - $\phi$ 16mm	8 NOS.	REC-XII Plan-11KV-011
807	BACK CLAMPS FOR GUARDING CROSS ARM	2 NOS.	REC-XII Plan-11KV-011

BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	QTY.	TOTAL Wt. KG.
806	GUARDING CROSS ARM	75x40	M.S.	2210	5.7	2 NOS.	25.19
807	BACK CLAMP FOR GUARDING CROSS ARM	50x8	M.S.	445	3.14	2 NOS.	2.80
	EYE BOLT - 16MM	$\phi$ 16 MM	M.S.	236	1.577	8 NOS.	2.98
TOTAL							30.97

DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG.	QTY.	TOTAL Wt. KG.
NUTS & BOLTS	M16		65	0.164	4 NOS.	0.656
SPRING WASHERS	M16		3.5 THK.	0.009	4 NOS.	0.036
PLAIN WASHER	M16		3 THK.	0.015	4 NOS.	0.060
TOTAL						0.752

**GENERAL NOTES:**

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE  
 UPTO 50mm -  $\pm$  5%  
 51 TO 100mm -  $\pm$  4%  
 101 TO 300mm -  $\pm$  3%  
 ABOVE 300mm -  $\pm$  2%
- 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
- 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
- 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
- 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
- 7) NO. OF CROSS LACINGS TO SUIT THE REQUIREMENTS. CROSS LACINGS BE PROVIDED FOR THE WIDTH OF THE ROAD PLUS ONE EACH NEAR THE SUPPORT.
- 8) FOR CROSS LACINGS, AAC, ACSR CONDUCTOR FROM SCRAP LENGTHS OR 3.15mm GI WIRE CAN BE USED.
- 9) 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 55KGF/mm LAID QUALITY OR 5mm GI WIRE OF MINIMUM STRENGTH 33KGF/mm SOFT QUALITY BE USED AS PER IS 280-1962.
- 10) MINIMUM CLEARANCE FROM GROUND SHALL BE 6.1 METRES AS PER IE RULES.
- 11) ALL CHANNELS AND ANGLES SHALL CONFORM TO IS: SP6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS



**FOR TENDER PURPOSE ONLY**

**Rural Electrification Corporation Ltd.**

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana

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

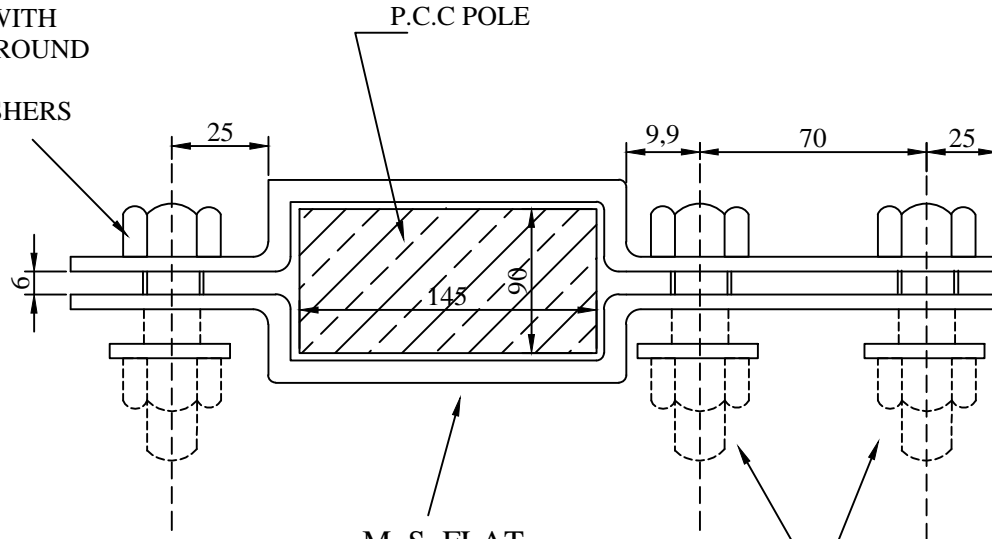
DRG. NO. REC/DDUGJY/11KV/25

SHT. NO. 1 OF 1

REV. NO. 0

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

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



M. S FLAT  
50X6 mm

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



FRONT VIEW

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

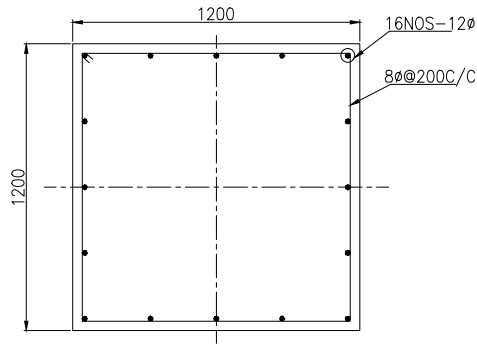
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

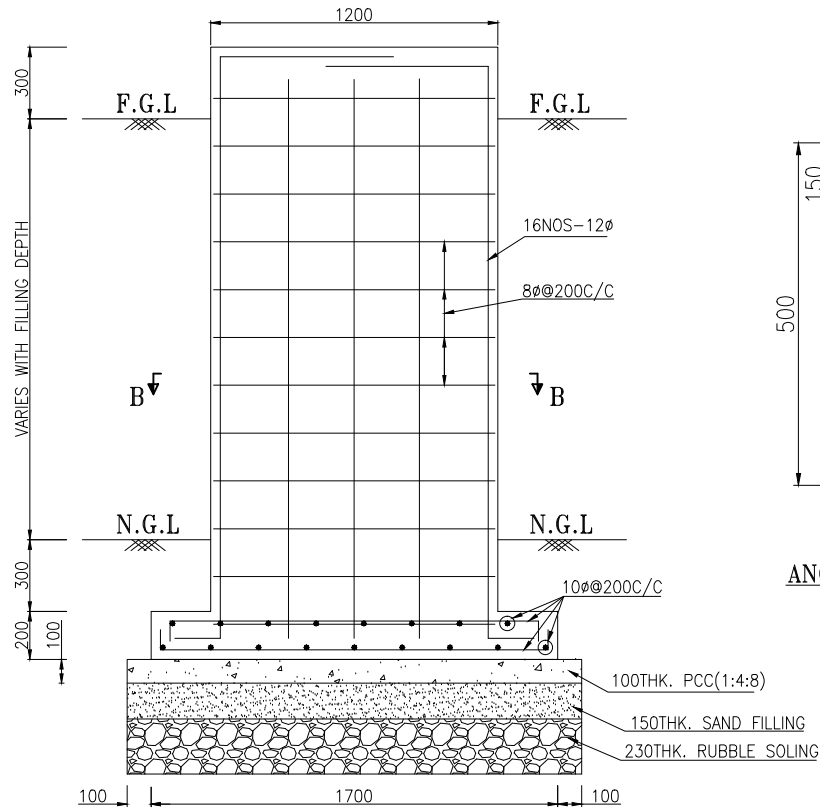
33 kv Line Pole Bracket

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

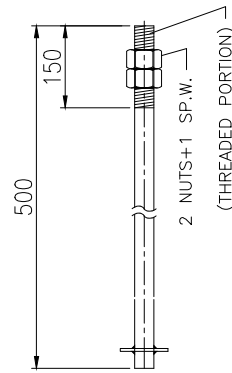
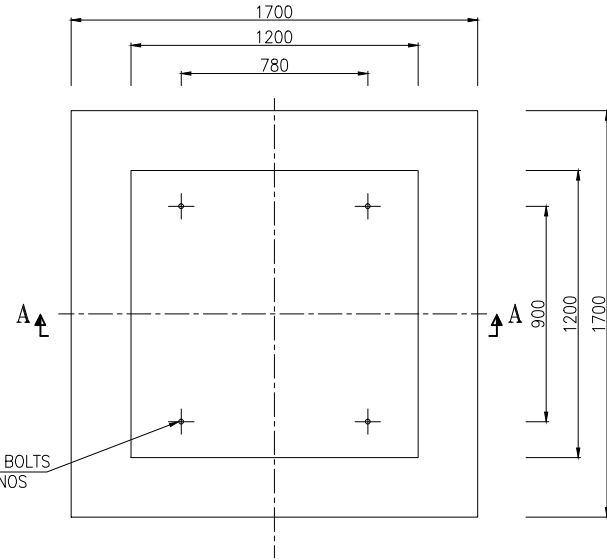
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33kv/01	1 OF 1	0



SECTION - BB



SECTION - AA



DETAIL OF ANCHOR BOLT (20φ)

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/M<sup>2</sup>

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

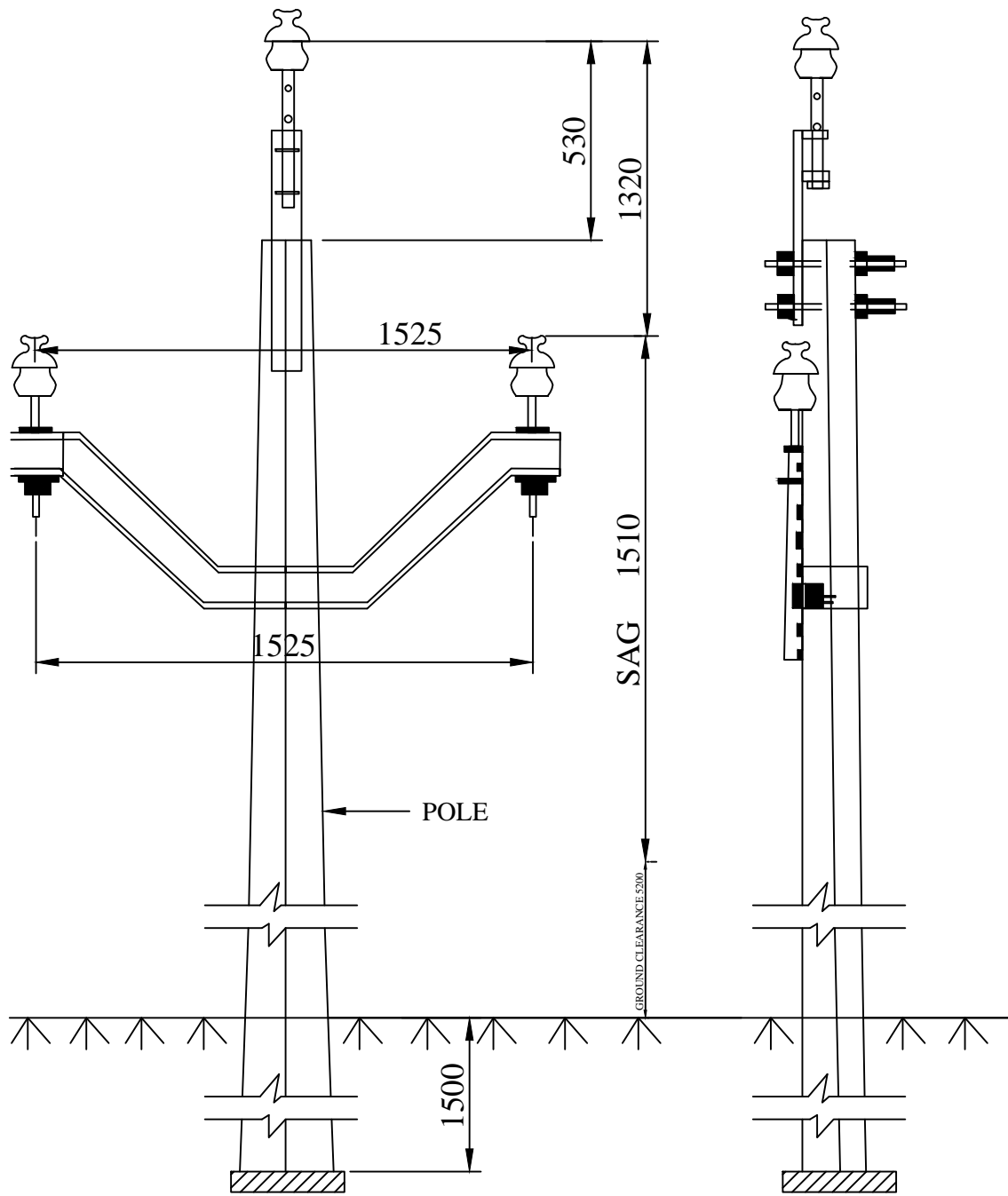
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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/DDUGJY/33kV/02	1 OF 1	0



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

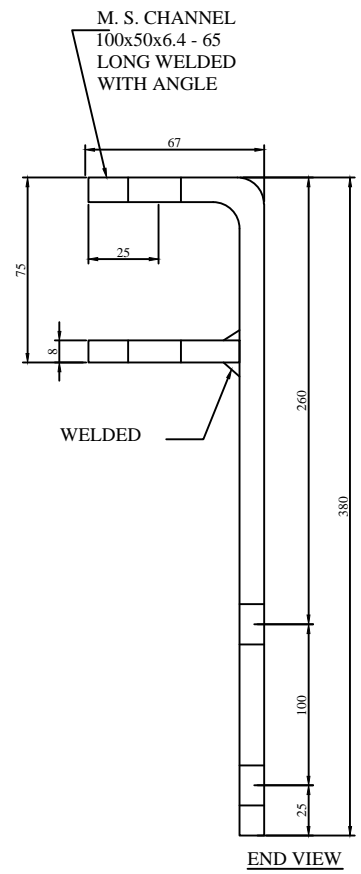
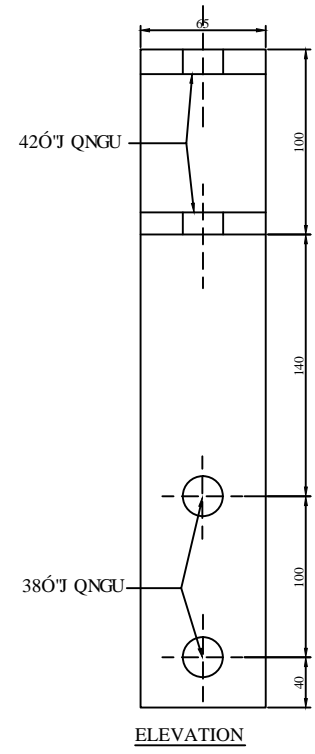
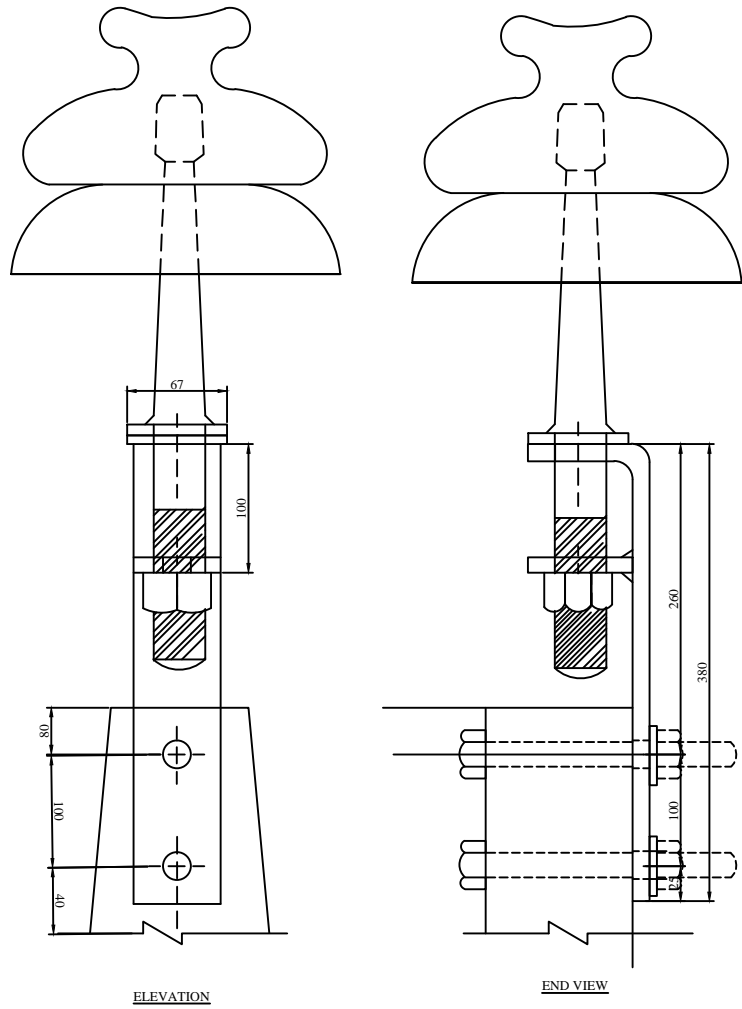
TITLE

33kV Line Conductor Formation & Clearances


ALL DIMENSION ARE IN mm.

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

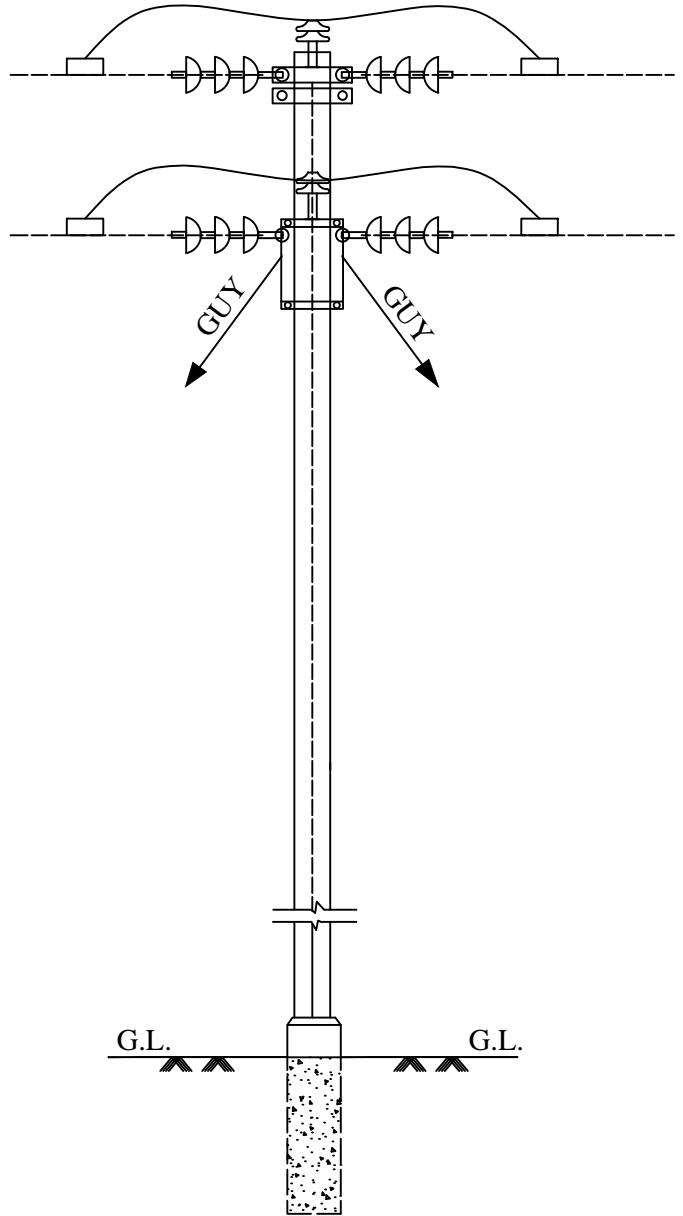
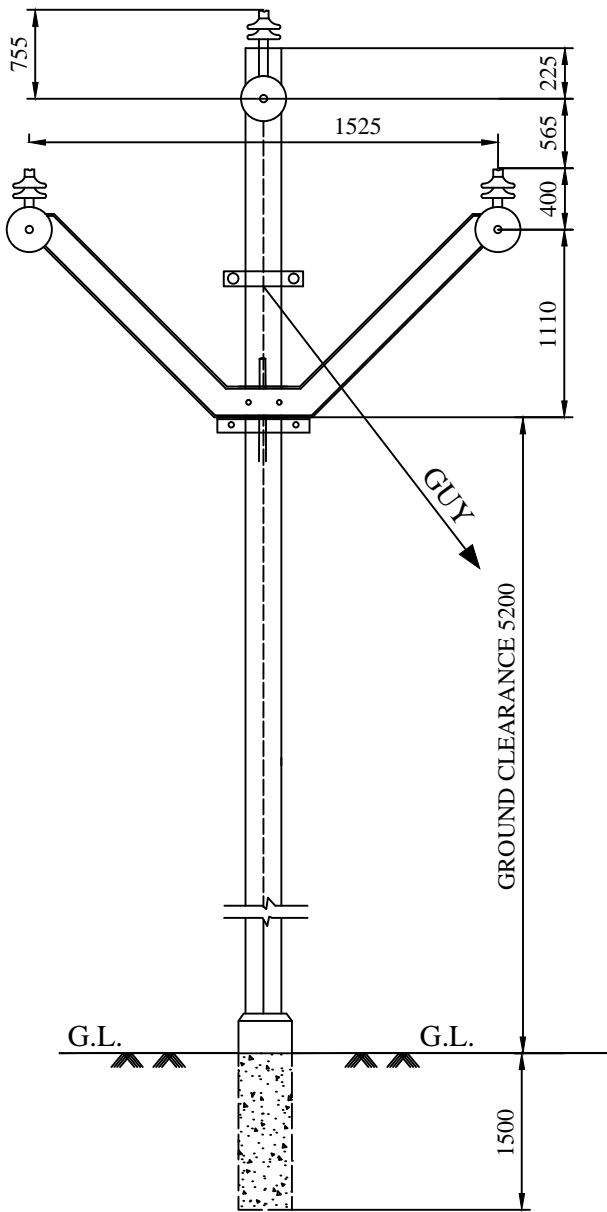
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33kV/03	1 OF 1	0



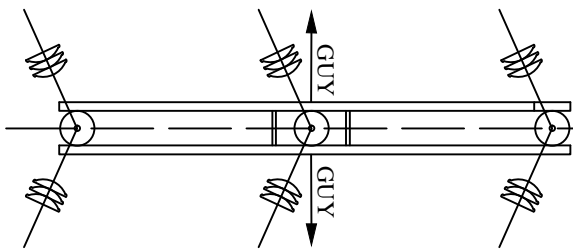
FOR TENDER PURPOSE ONLY

		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> 33KV Line Pole Top Bracket				
<b>SIZE:</b> A3	<b>SCALE:</b> NTS	<b>DRG. NO.:</b> REC/DDUGJY/33kV/04	<b>SHT. NO.:</b> 1 OF 1	<b>REV. NO.:</b> 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					



SIDE VIEW



FOR TENDER PURPOSE ONLY



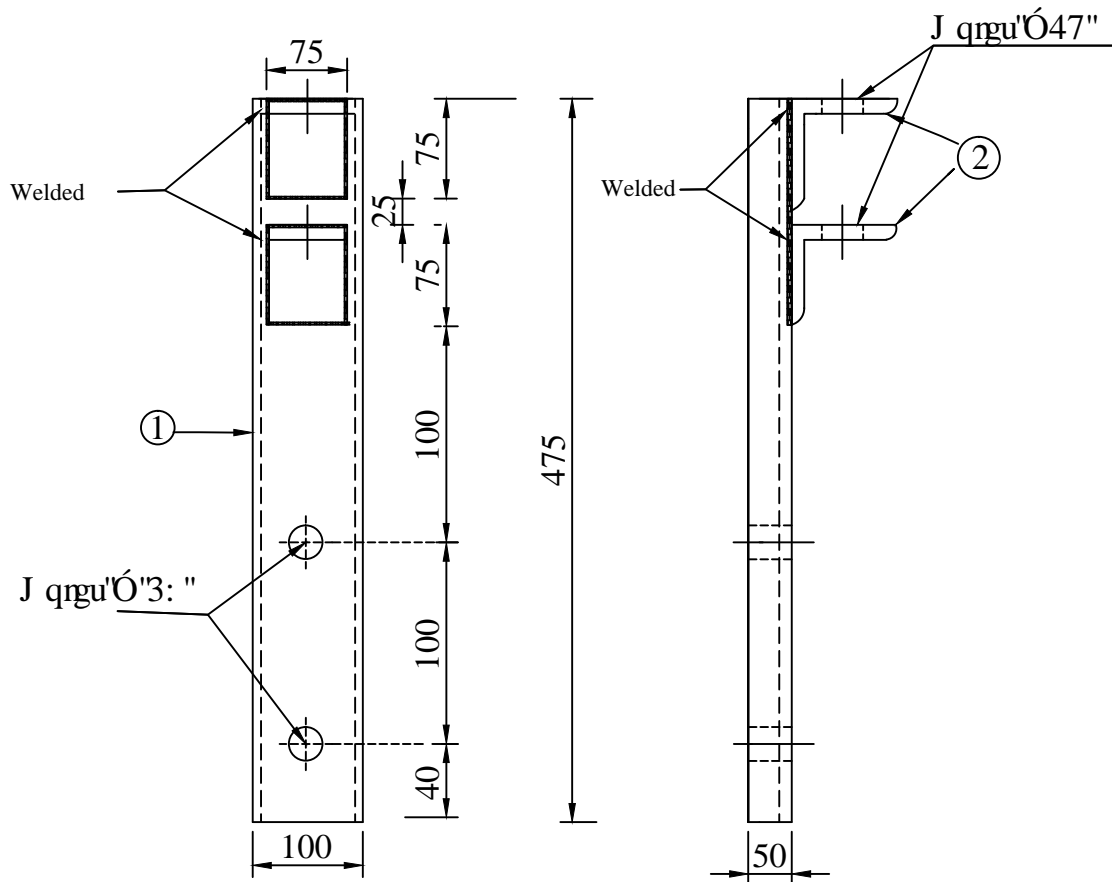
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

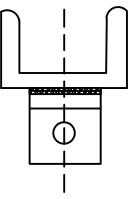
RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



**ELEVATION**

**SIDE VIEW**




**Plan**

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

All Dimensions in mm

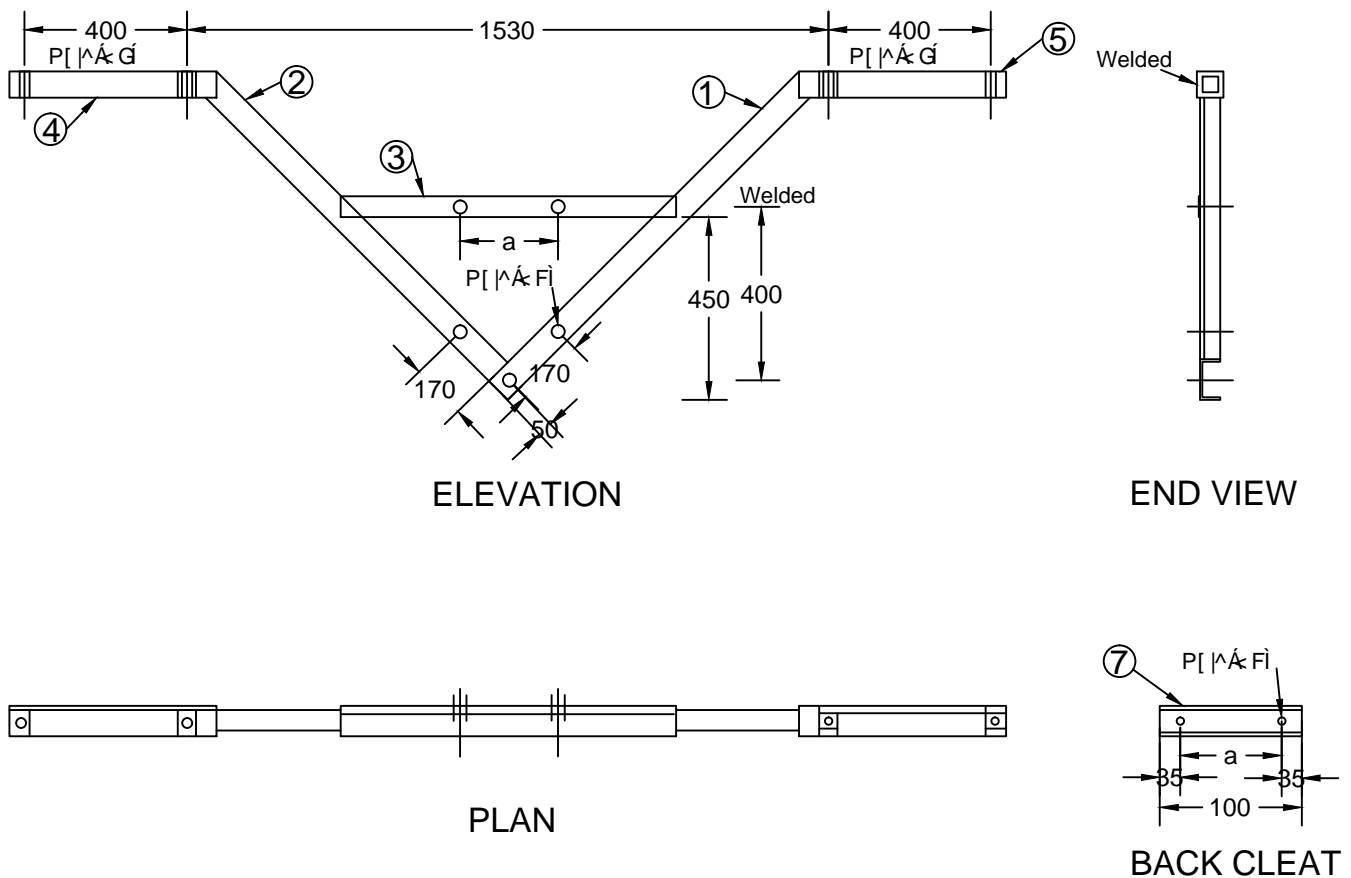
**FOR TENDER PURPOSE ONLY**

 <b>REC</b> <small>असीमित ऊर्जा, असीम संभावनाएं  infinite energy, infinite possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE:</b> 33 kV LINE POLE TOP BRACKET			
<b>SIZE</b> R0 <b>SCALE</b> A3 NTS	<b>DRG. NO.</b> REC/DDUGJY/33kV/06	<b>SHT. NO.</b> 1 OF 1	<b>REV. NO.</b> 0

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








### 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

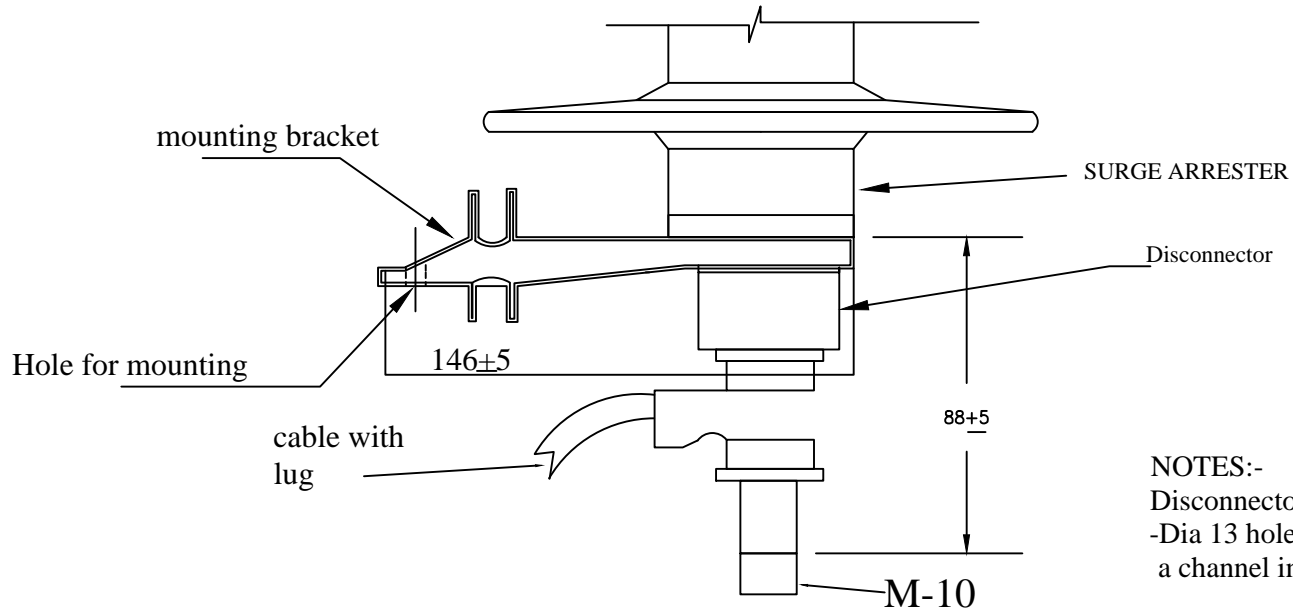
FOR TENDER PURPOSE ONLY

Note: For P. C. C. Plot  $a = 230\text{mm}$   
 $b = 230\text{mm}$

All Dimensions are in mm.

 <b>आर ई सी</b> <b>REC</b> Rural Electrification Corporation Ltd.		PROJECT:		
		Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
TITLE		33kV Bridling V-Cross Arm (Road Crossing)		
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33kV/08	1 OF 1	0

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT




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

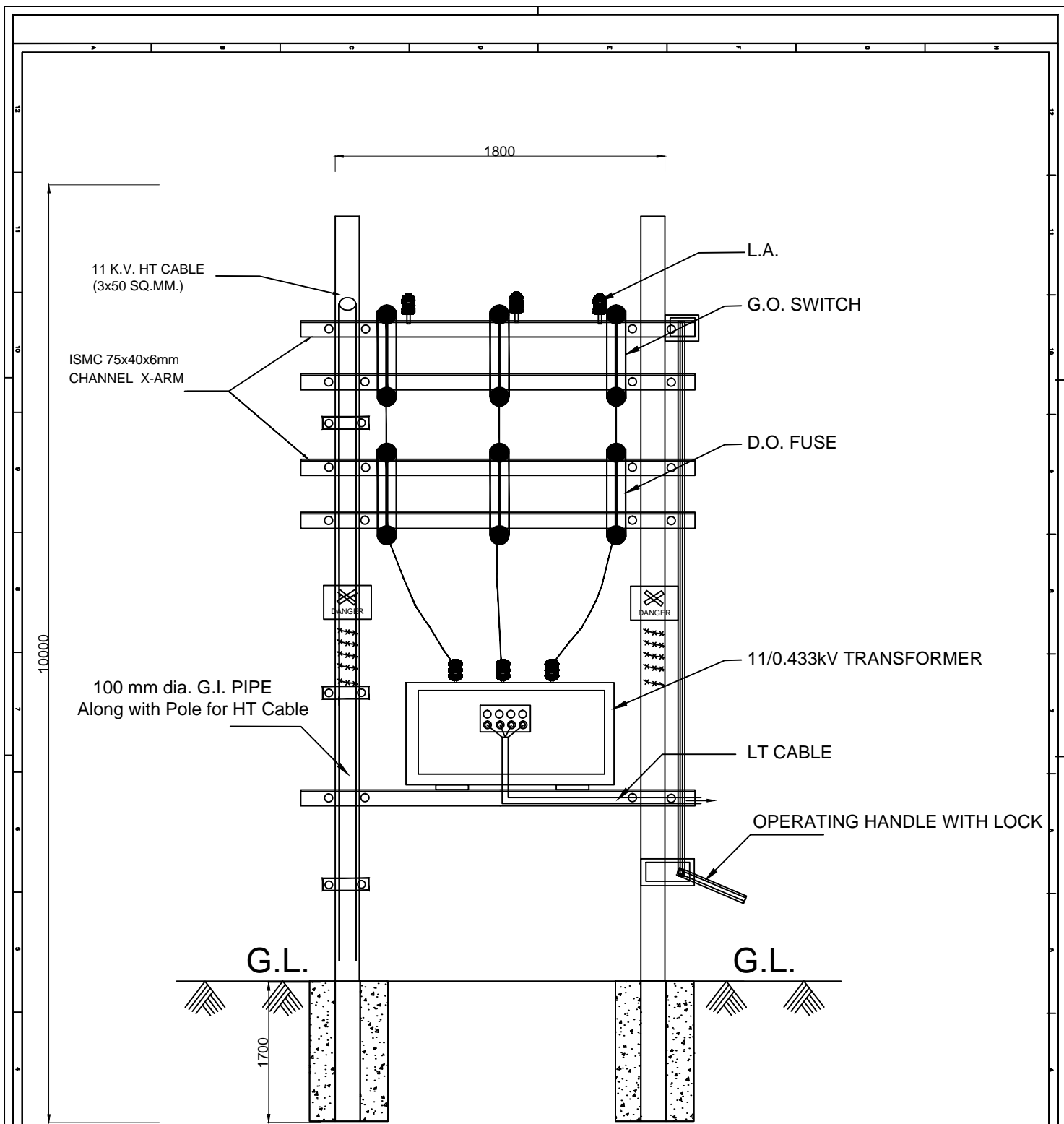
MV SURGE ARRESTER  
 TYPE:NDA  
 Mounting Bracket and Disconnector

FOR TENDER PURPOSE ONLY

All dimensions are in mm.


		Rural Electrification Corporation Ltd.	
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)			
TITLE: Drawing of Bracket for 11 kV LA			
SIZE	SCALE	DRG. NO.	SHT. NO. REV. NO.
A3	NTS	REC/DDUGJY/DTR-SS/01	1 OF 1 0

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

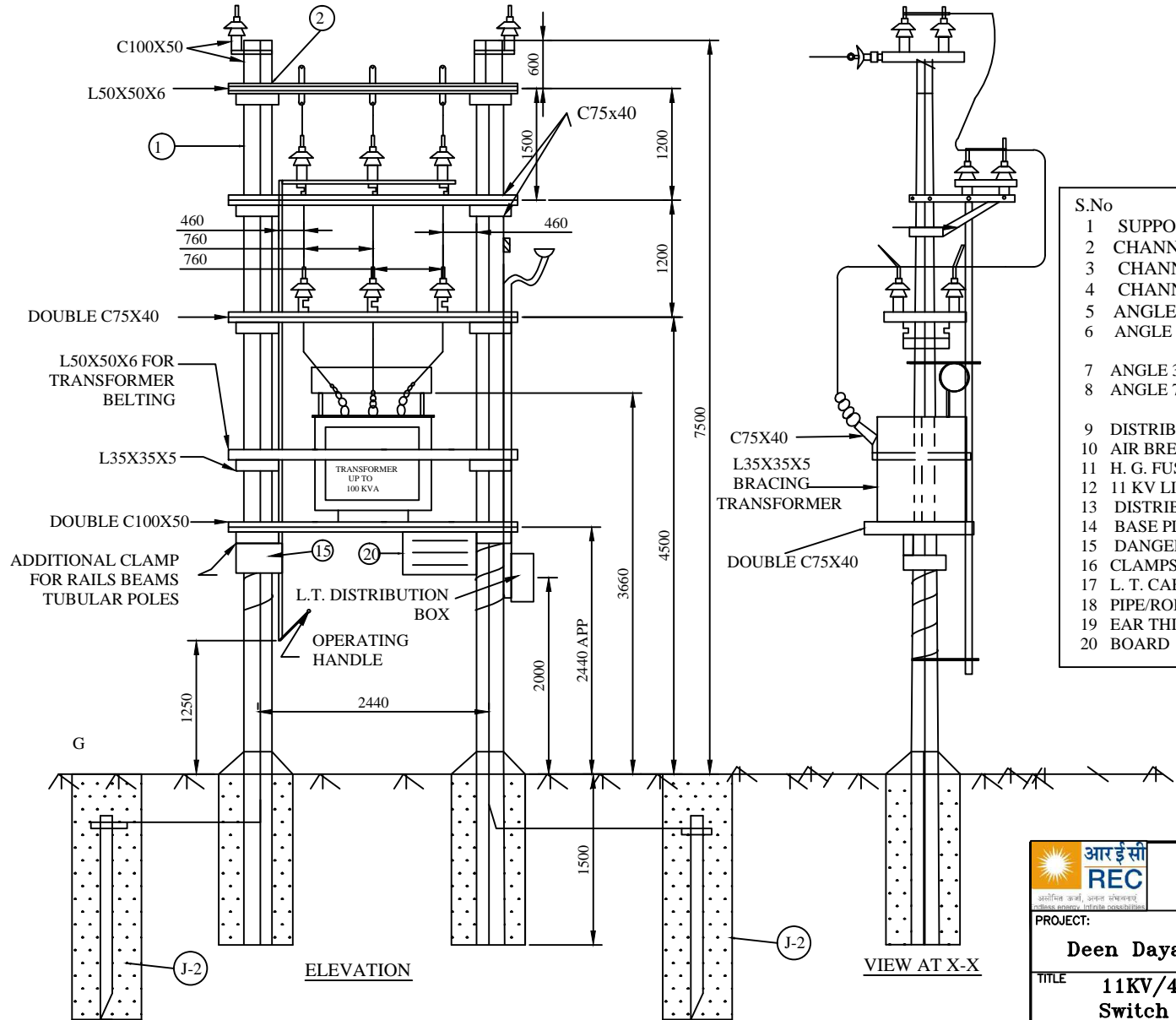


POLE MOUNTED SUB-STATION

FOR TENDER PURPOSE ONLY

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

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					



**BILL OF MATERIAL**

S.No	Description	Quantity
1	SUPPORT - 9m	2
2	CHANNEL 100X50 - 2800 (APP.)	2
3	CHANNEL 75X40 - 1500 (APP.)	2
4	CHANNEL 75X40 - 2800(APP.)	4
5	ANGLE 50X50X6 - 2800 (APP.)	3
6	ANGLE 35X35X5 - BREACHING FOR SUPPORTING A - B SWITCH - 1000 ( APP.)	2
7	ANGLE 35X35X5 - FOR TRANSFORMER BELTING	2
8	ANGLE 75X40 - X. ARM FOR SUPPORTING A - B SWITCH - 1000 (APP.)	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 ARREST'S	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 (16/25 KVA)  
(FOR ON LINE LINE LOCATIONS - ACROSS LINE)

**FOR TENDER PURPOSE ONLY**

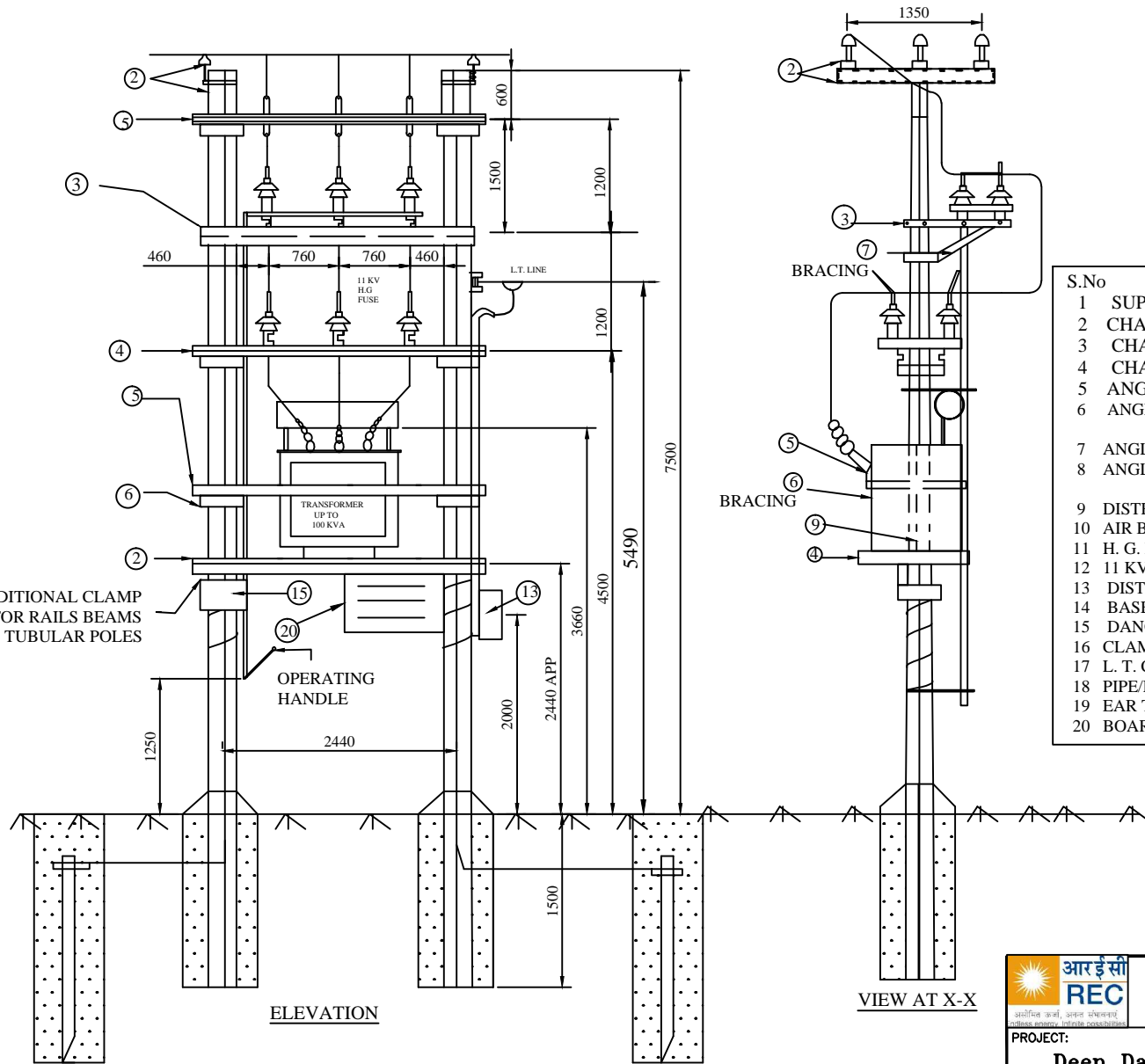


**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

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



**BILL OF MATERIAL**

S.No	Description	Quantity
1	SUPPORT - 9m	2
2	CHANNEL 100X50 - 2800 (APP.)	2
3	CHANNEL 75X40 - 1500 (APP.)	2
4	CHANNEL 75X40 - 2800(APP.)	4
5	ANGLE 50X50X6 - 2800 (APP.)	3
6	ANGLE 35X35X5 - BREACHING FOR SUPPORTING A - B SWITCH - 1000 ( APP.)	2
7	ANGLE 35X35X5 - FOR TRANSFORMER BELTING	2
8	ANGLE 75X40 - X. ARM FOR SUPPORTING A - B SWITCH - 1000 (APP.)	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 ARREST'S	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**

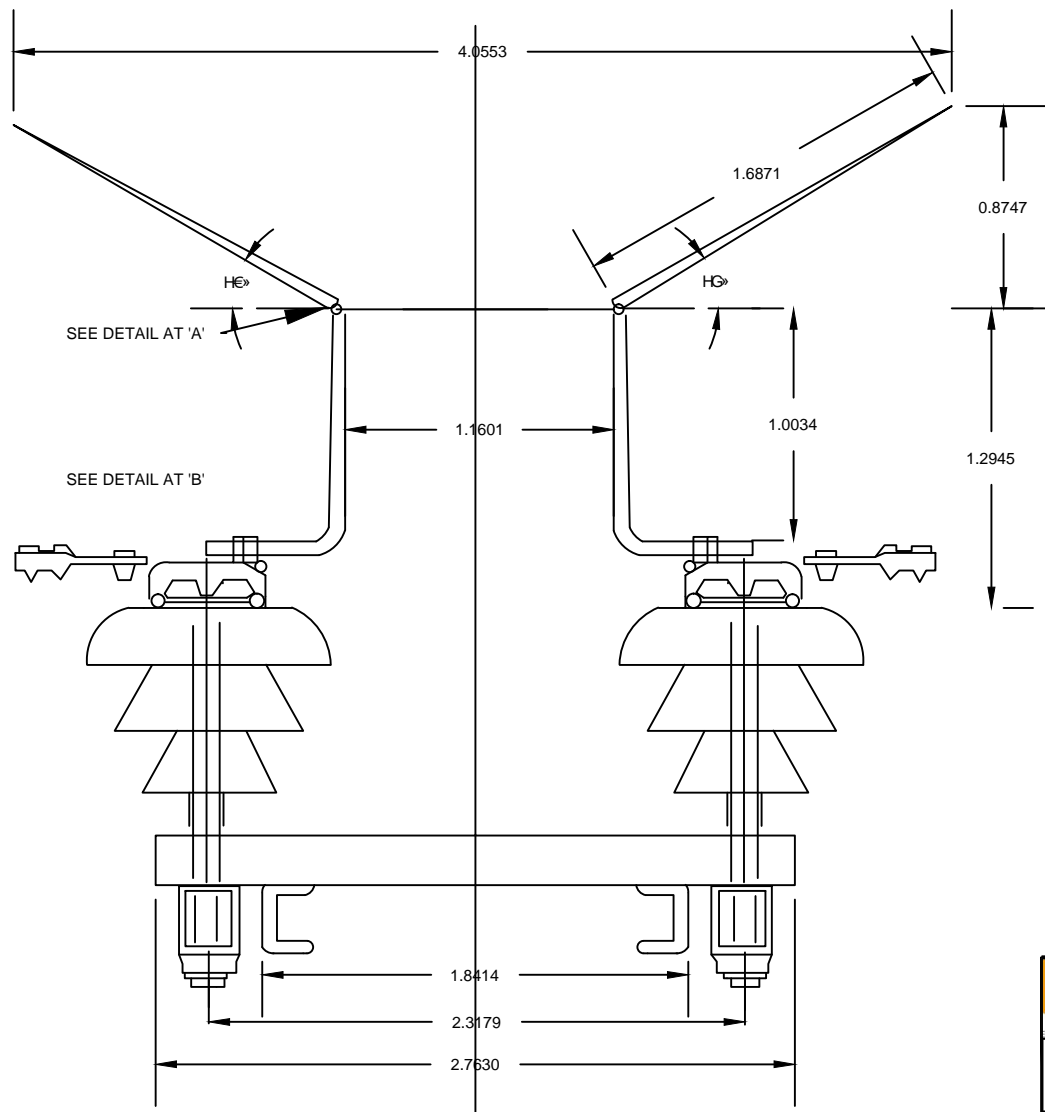
**Rural Electrification Corporation Ltd.**

**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



FOR TENDER PURPOSE ONLY



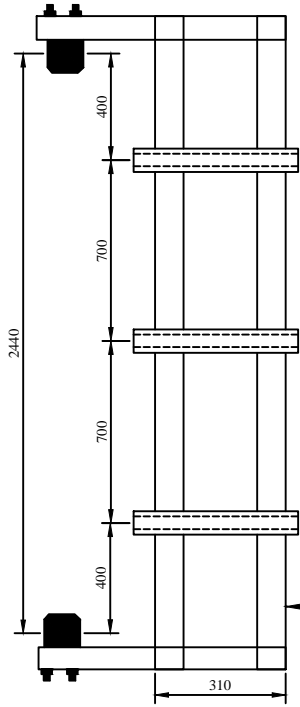
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: 11KV Horn Gap Fuses

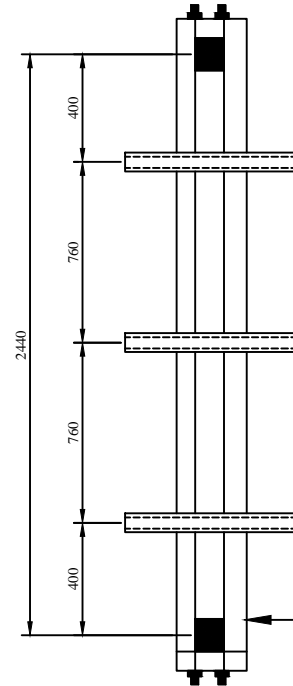
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

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



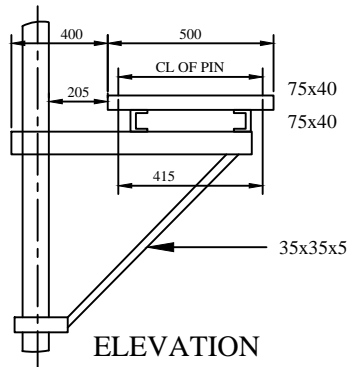
PLAN

REFER REC CONSTRUCTION STANDARD F-2

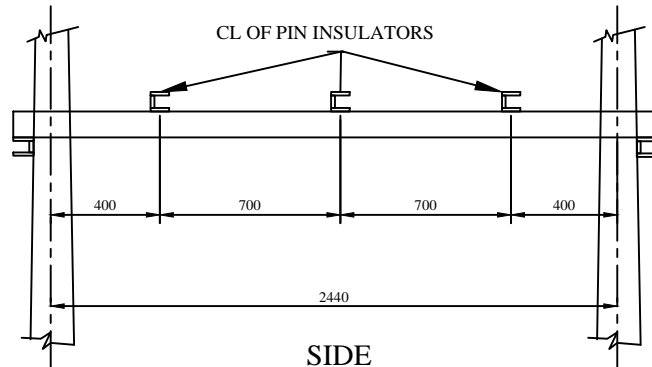


PLAN

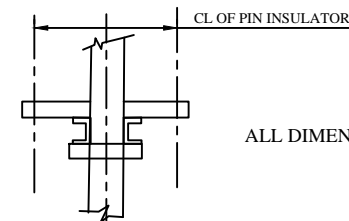
REFER REC CONSTRUCTION STANDARD F-4



ELEVATION



SIDE



ELEVATION

ALL DIMENSION ARE IN MM

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

11KV Horn Gap Fuses Mounting Details

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE

A3

SCALE

NTS

DRG. NO.

REC/DDUGJY/DTR-SS/06

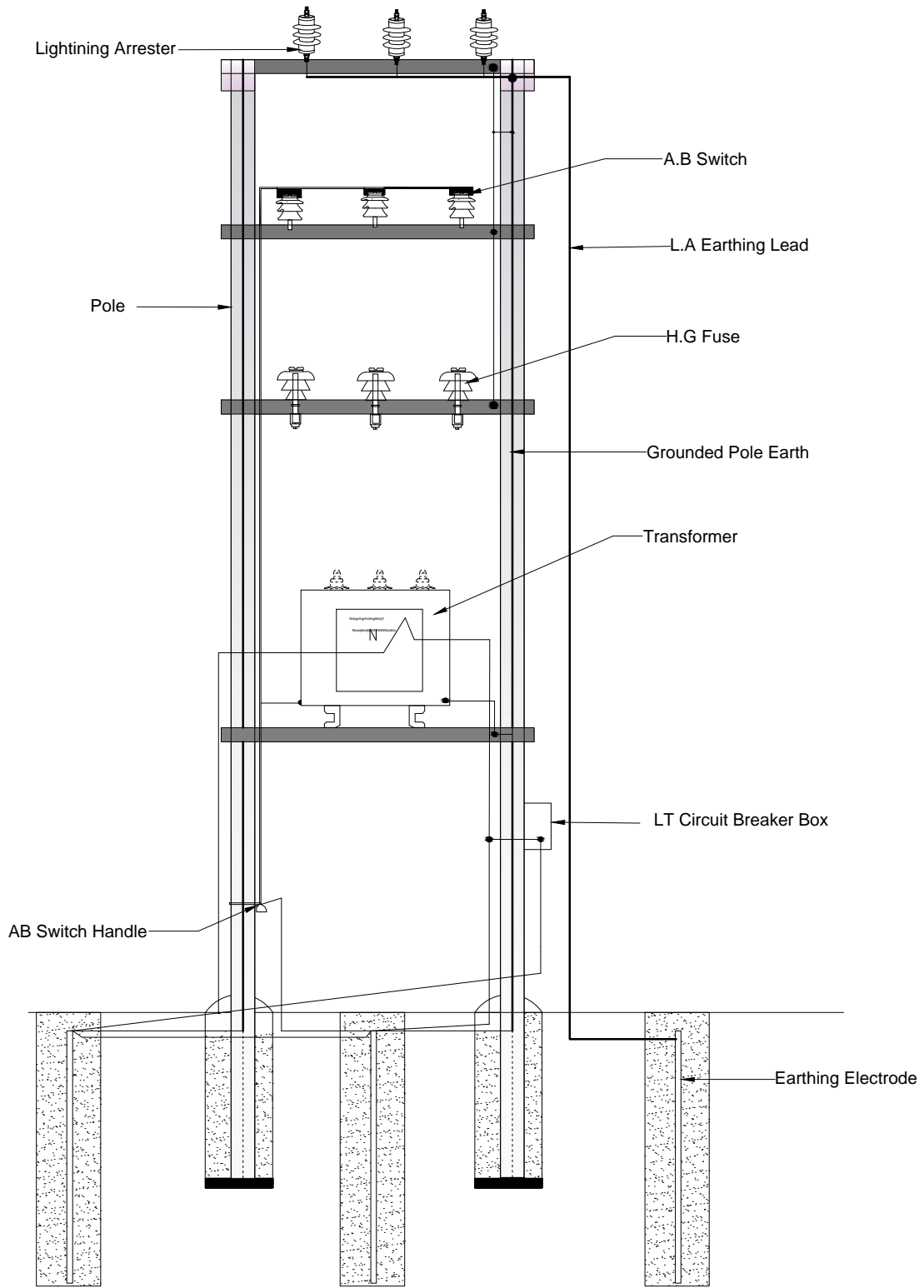
SHT. NO.

1 OF 1

REV. NO.

0





**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

PROJECT:

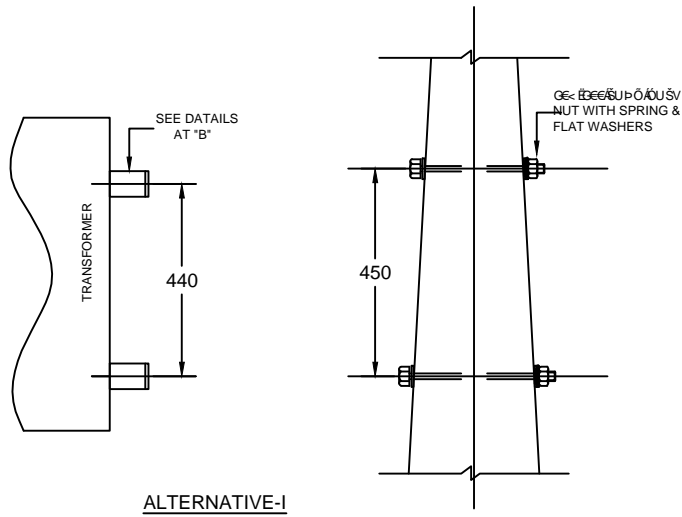
**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

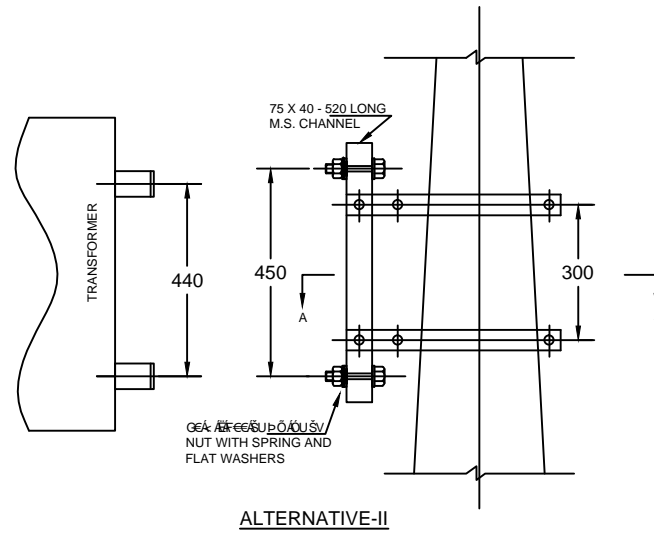
**Earthing Arrangement For Distribution Sub-Station**

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

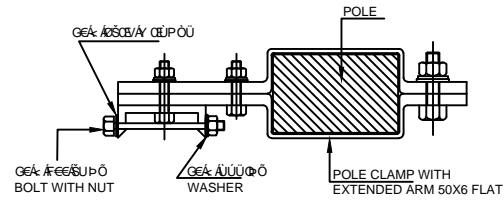
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A3	NTS	REC/DDUGJY/DTR-SS/07	1 OF 1	0



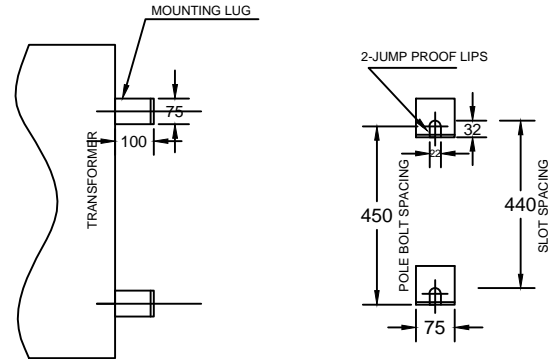
ALTERNATIVE-I



ALTERNATIVE-II



DETAIL AT 'AA'



DETAIL AT "B"

ALL DIMENSIONS ARE IN MM.

NOTE:-

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

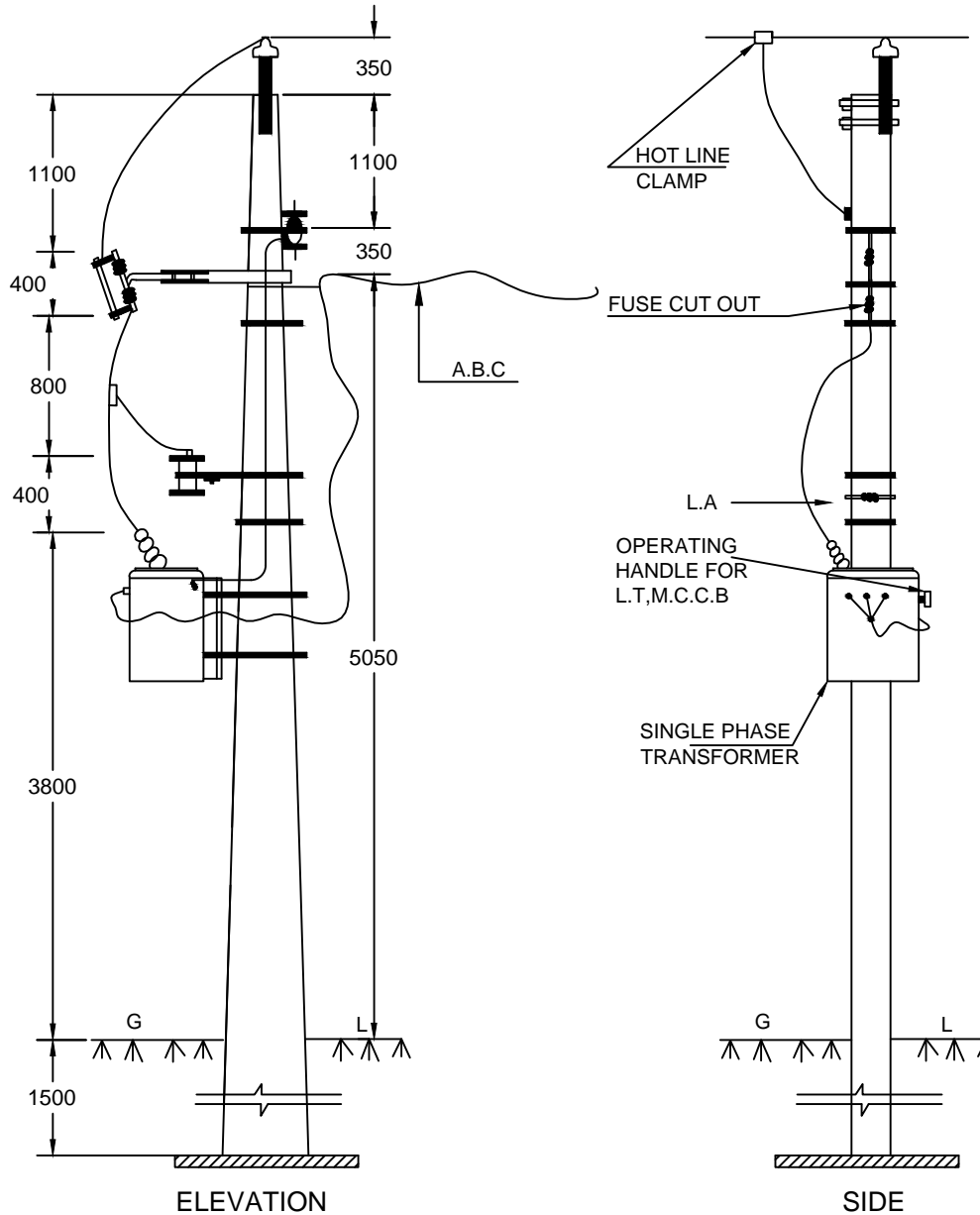
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

Single Phase Transformer Mounting Details

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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




**BILL OF MATERIAL**

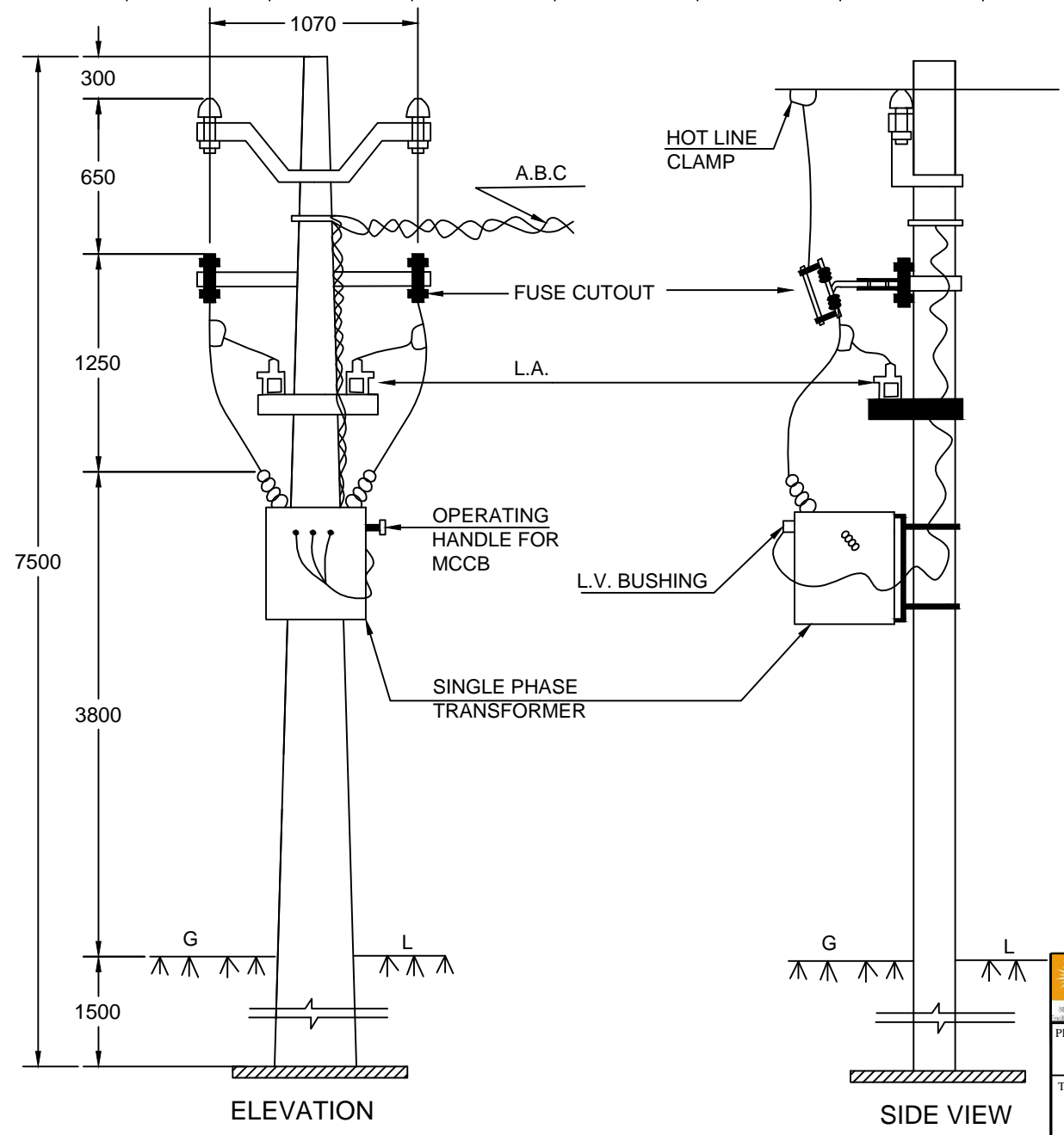
P.C.C SUPPORTS 8 M	1 No.
POLE WITH BRACKET	1 No.
11 KV PIN INSULATOR WITH PIN	1 No.
SHACKLE INSULATOR	1 No.
U-CLAMP WITH BOLT	1 No.
L.A WITH FIXTURE	1 No.
FUSE CUT OUT WITH FIXTURE	1 No.
SINGLE PHASE TRANSFORMER WITH LT M.C.C.B AND FIXTURE	1 No.
A.B.C	AS REQD.
POLE CLAMP	1 No.
EARTHING MATERIAL,NUTS,BOLTS,CLAMPS,ETC.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

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

FOR TENDER PURPOSE ONLY

 <b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)	
<b>TITLE:</b> Single Phase (Phase to Neutral) Distribution Sub-Station Arrangement	
<b>SIZE:</b> A3	<b>SCALE:</b> NTS
<b>DRG. NO.:</b> REC/DDUGJY/DTR-SS/09	<b>SHT. NO.:</b> 1 OF 1
<b>REV. NO.:</b> 0	<b>REV. NO.:</b> 0

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



**BILL OF MATERIAL**

P.C.C POLE 7.5 M	1 No.
V-CROSS ARM 75X40	1 No.
HORIZONTAL CROSS ARM 75X40X1150	1 No.
11 KV PIN INSULATOR WITH PINS	2 No.
11 KV N.G FUSEOR FUSE CUT-OUT	2 No.
11 KV L.A	2 No.
11 KV SINGLE PHASE TRANSFORMER	1 No.
M.S 50X50X6-600 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 STANDARAD 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

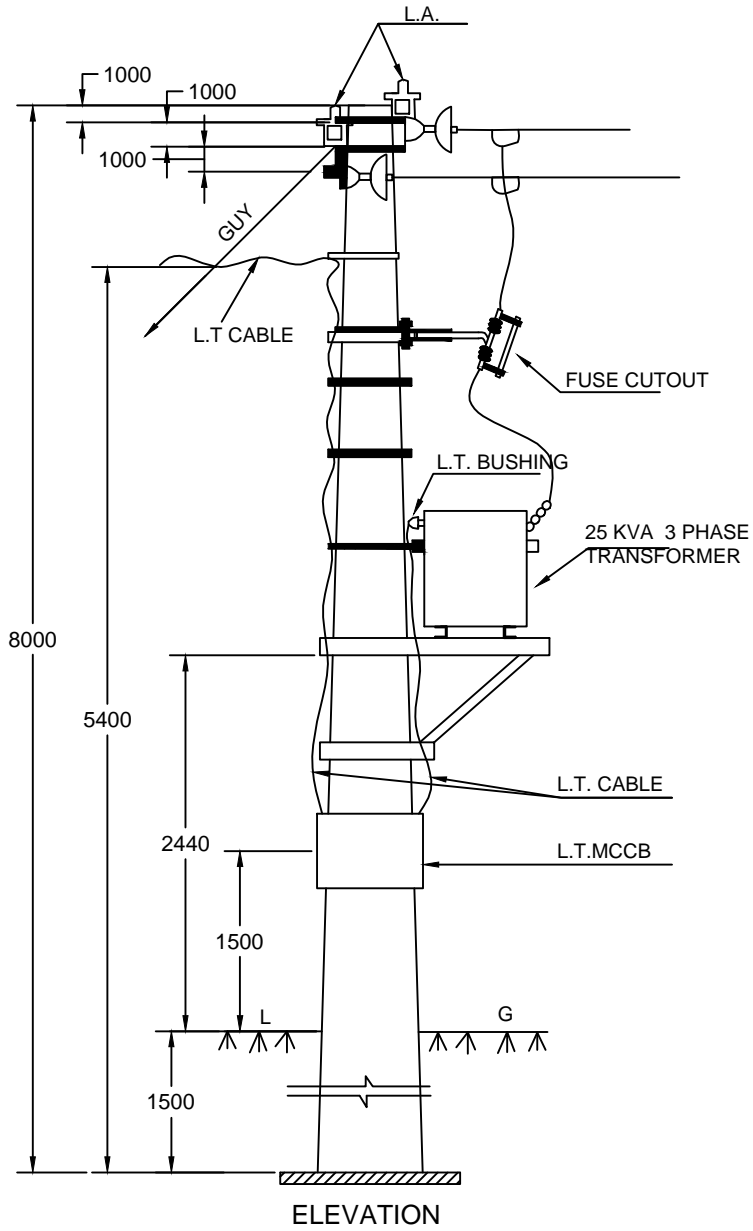
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

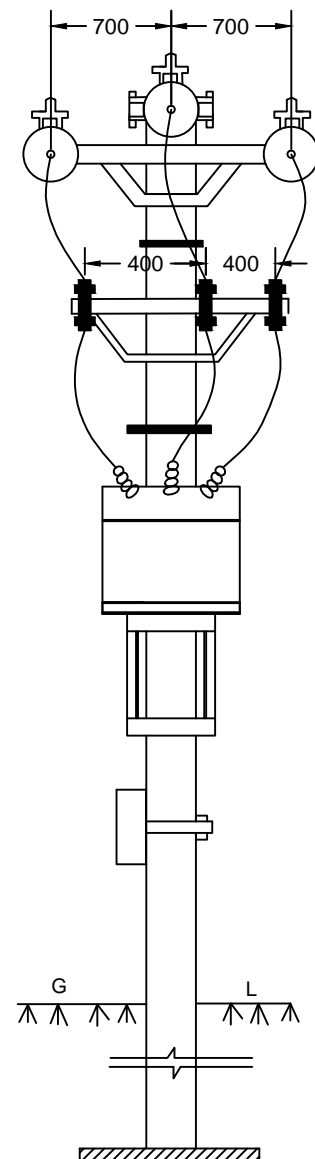
TITLE: **Single Phase (Phase to Phase) Distribution Sub-Station Arrangement**

R0							
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT		

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




SIDE VIEW

BILL OF MATERIALS

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

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

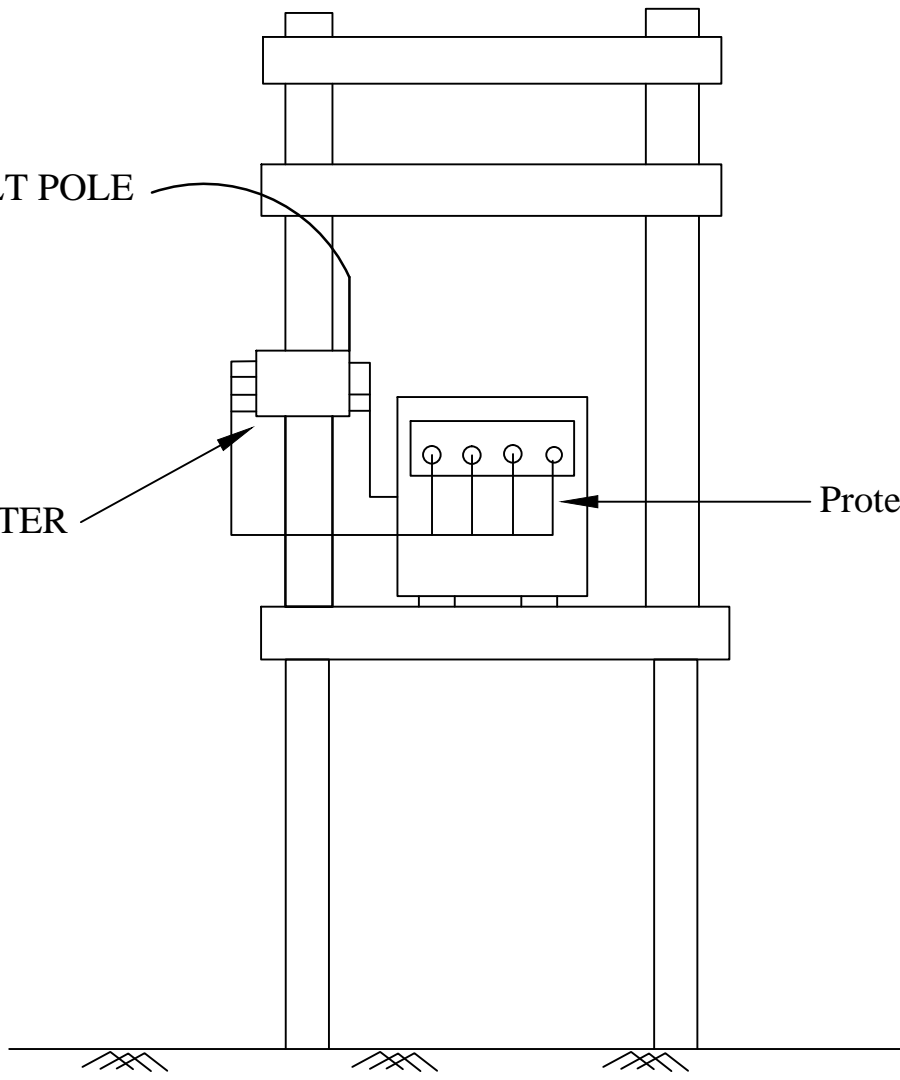
		Rural Electrification Corporation Ltd.		
PROJECT:		Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
TITLE:		Distribution Sub-Station Mounting Arrangement on Single Pole		
SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/DTR-SS/11	SHT. NO. 1 OF 1	REV. NO. 0

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

TO LT POLE

DTR METER BOX

Protection Unit



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

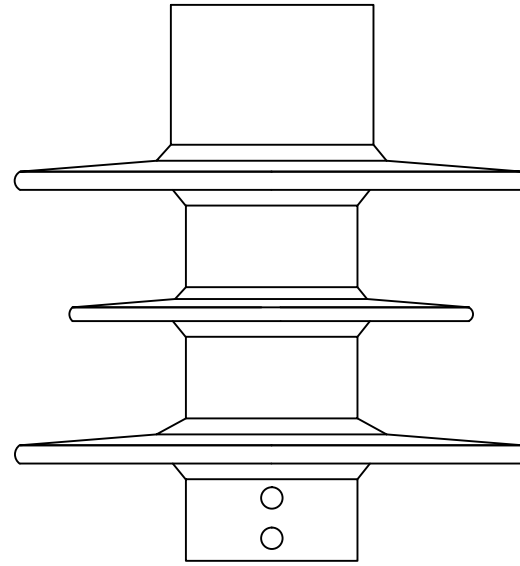
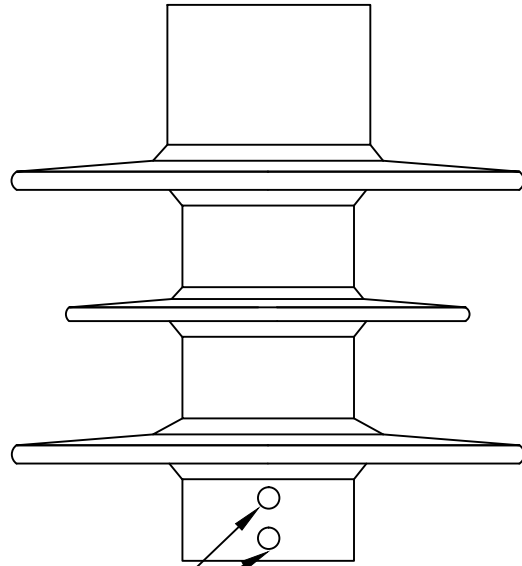
Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE

DRAWING FOR FIXING ARRANGEMENT OF METER

All dimensions are in mm.

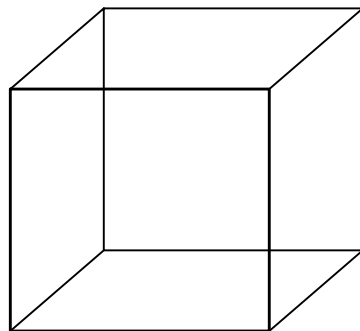
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/DDUGJY/DTR-SS/12	1 OF 1	0



LOT No DATE  
CLOCKS


**NOTES:-**

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



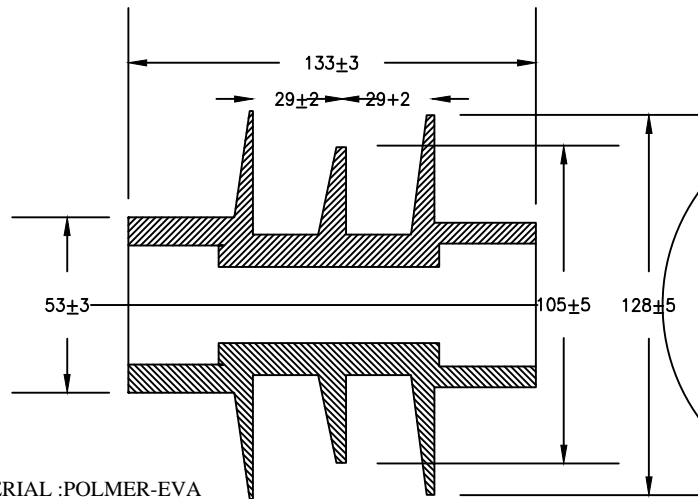
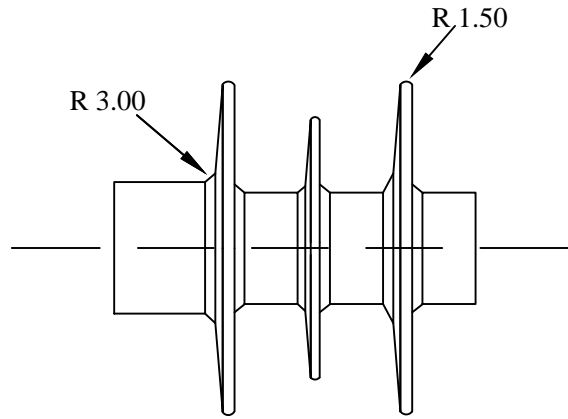
Meter Board

**FOR TENDER PURPOSE ONLY**

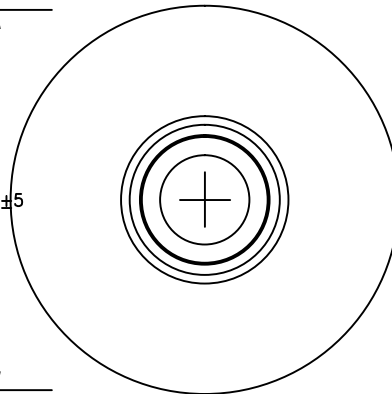
		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)				
<b>TITLE:</b> Lay Out Drawing of Lighting Arrester (1)				
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/DTR-SS/13A	<b>SHT. NO.</b> 1 OF 1	<b>REV. NO.</b> 0

All dimensions are in mm.

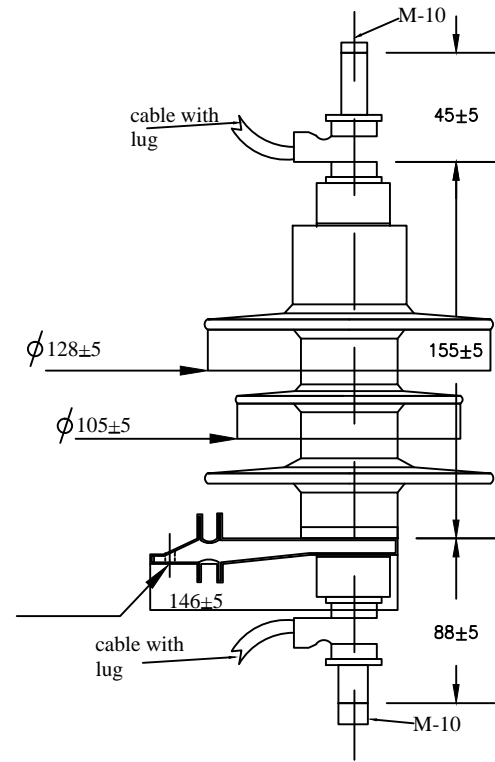
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT



MATERIAL :POLMER-EVA



MV SURGE ARRESTER  
TYPE:NDA  
HOUSING DETAILS



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

MV SURGE ARRESTER  
TYPE:NDA WITH DISCONNECTOR

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

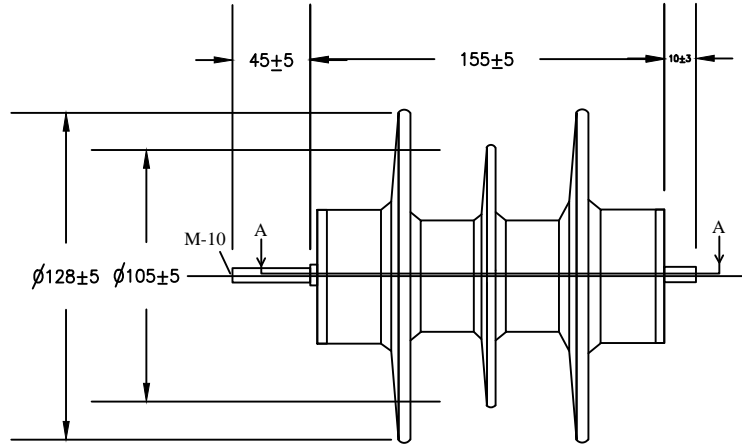
TITLE

Lay Out Drawing of Lighting Arrester (2)

All dimensions are in mm.

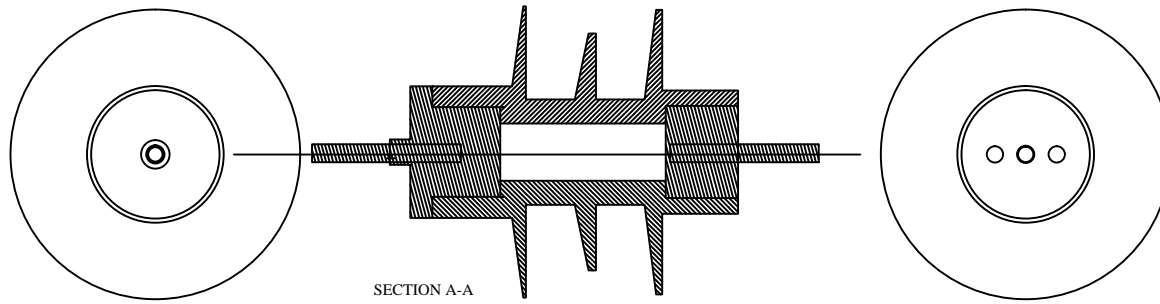
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/DDUGJY/DTR-SS/13B	1 OF 1	0






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

MV SURGE ARRESTER  
 TYPE:NDA  
 SECTIONAL VIEW



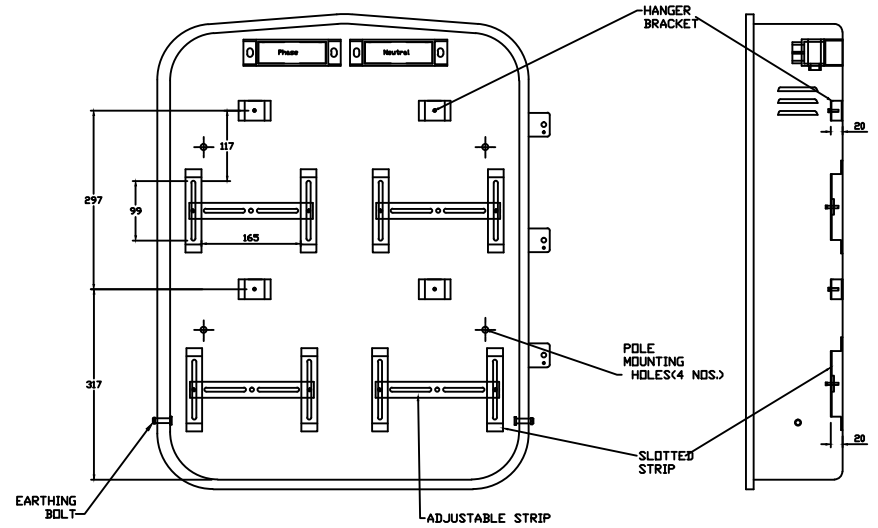
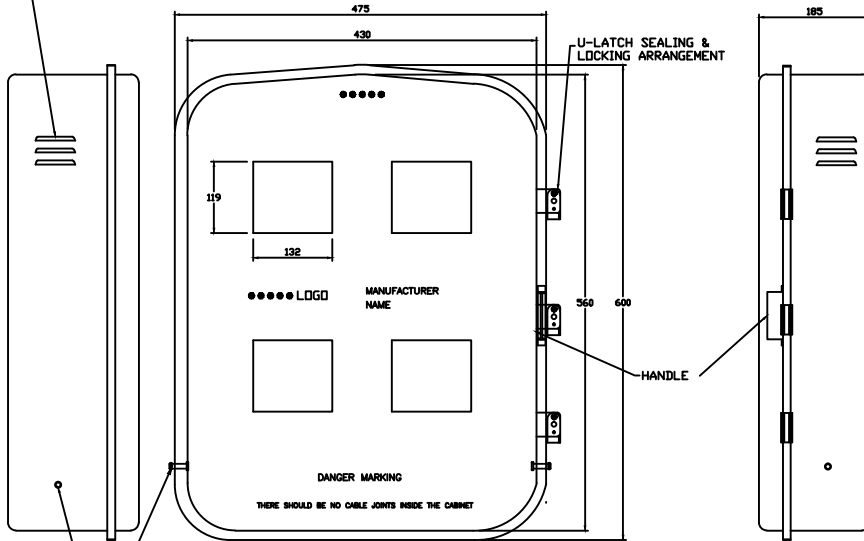
All dimensions are in mm.

FOR TENDER PURPOSE ONLY

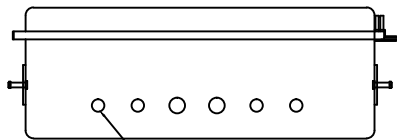
		<b>Rural Electrification Corporation Ltd.</b>		
PROJECT:		Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)		
TITLE		Lay Out Drawing of Lighting Arrester (3)		
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR-SS/13C	1 OF 1	0

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

LOUVERS



EARTHING BOLT WITH TWO NUT & WASHERS



CABLE GLANDS FOR CABLE ENTRY

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

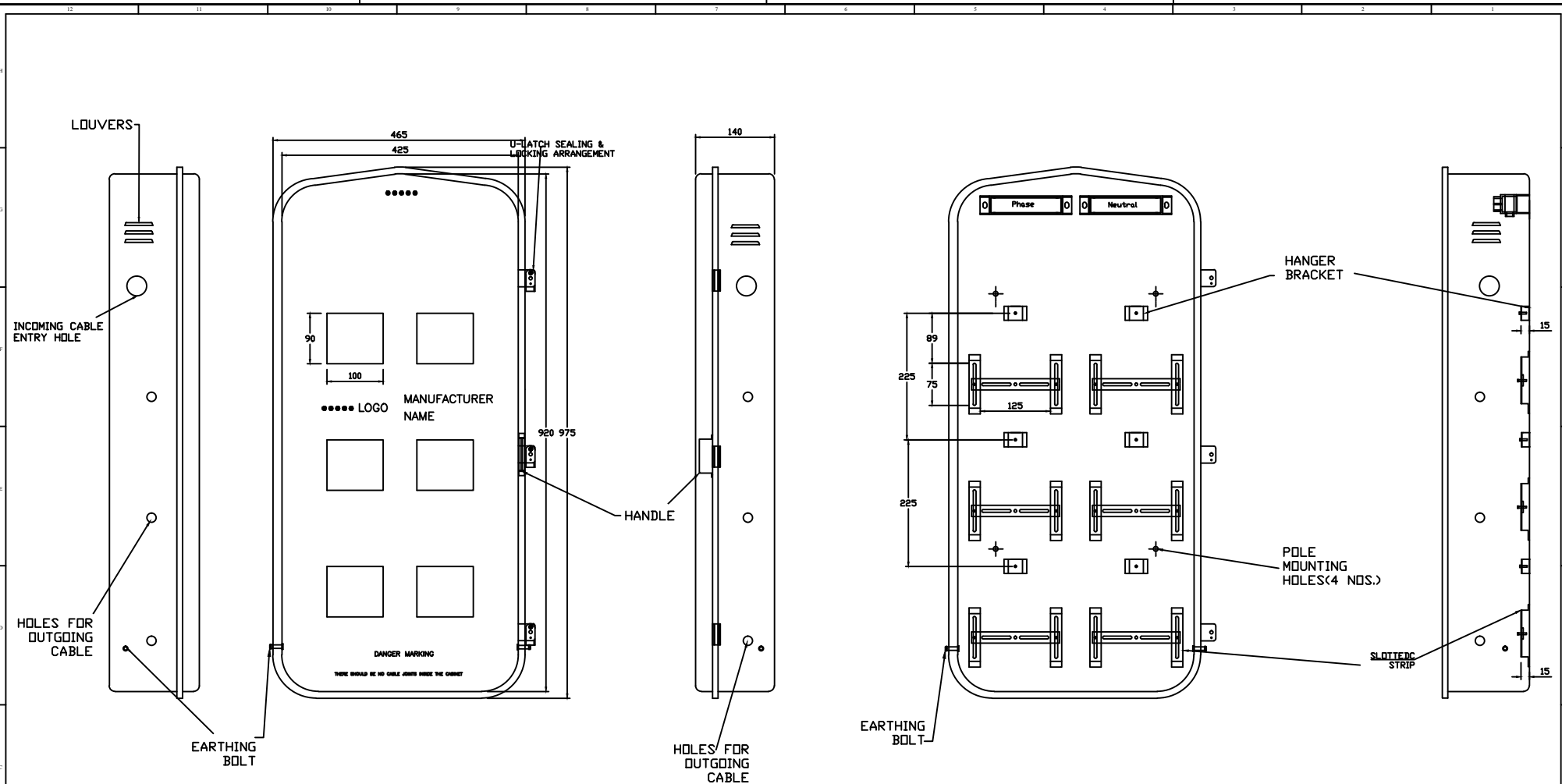
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

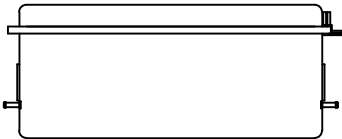
4-IN-1 MMB FOR SINGLE PHASE METER WITH MOC (MULTIPLE OUTGOING CONNECTOR BOX)

All dimensions are in mm.

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/DDUGJY/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.



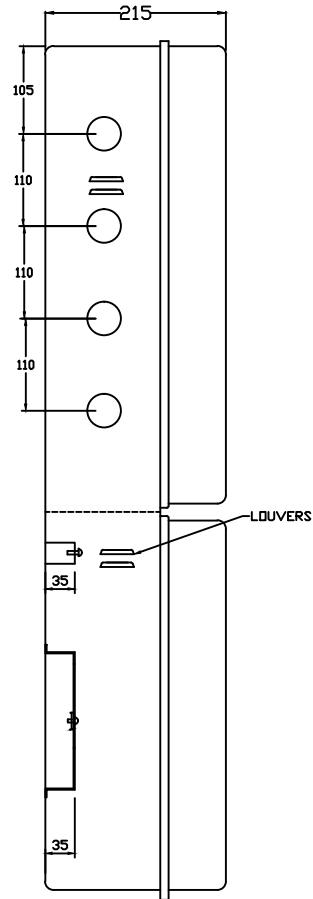
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)**

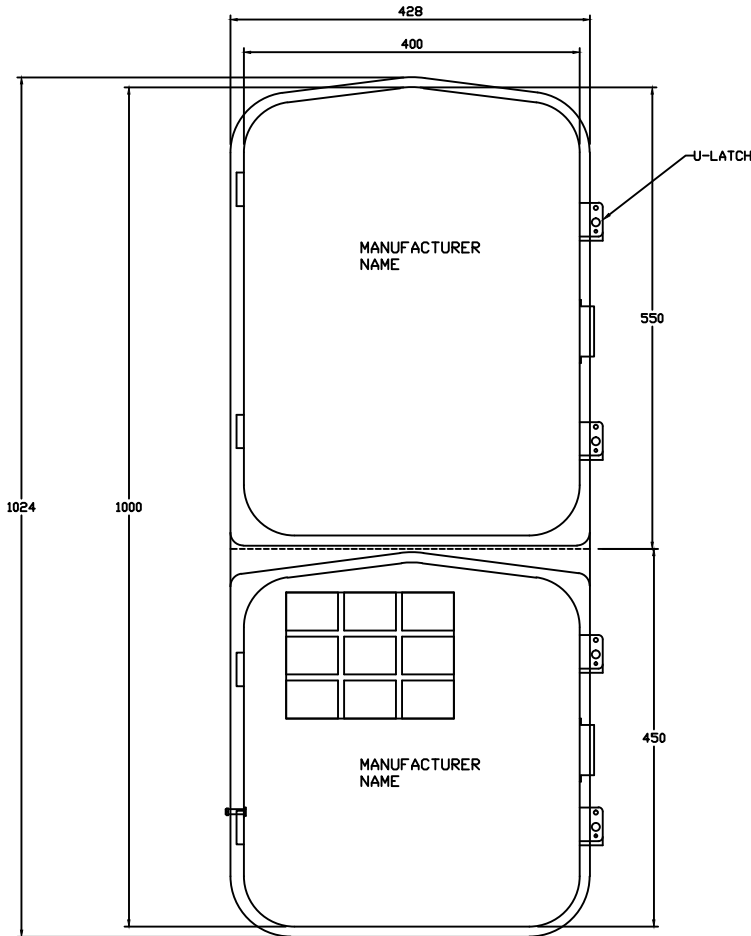
TITLE: **6-IN-1 MMB FOR SINGLE PHASE METER WITH MOC (MULTIPLE OUTGOING CONNECTOR BOX)**

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

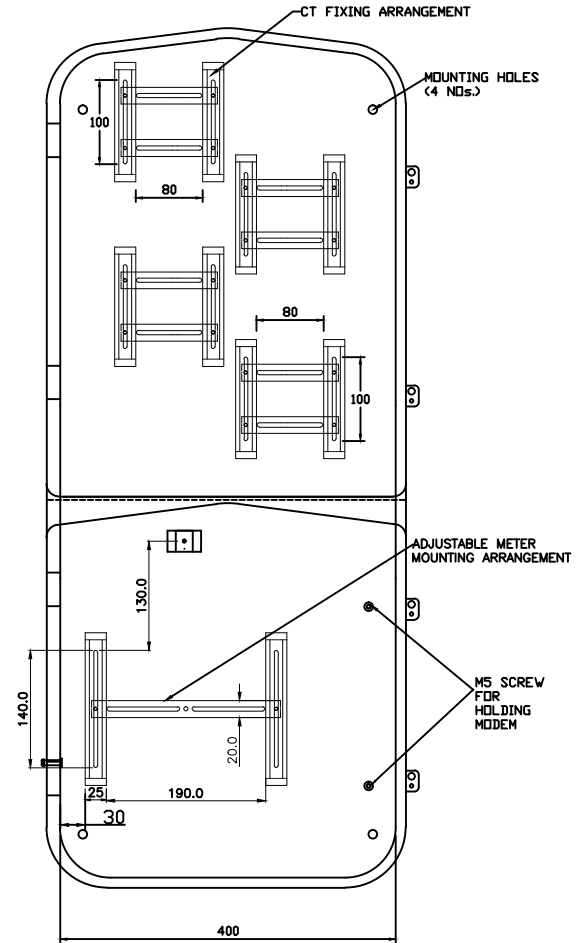
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR SS/15	1 OF 1	0



SIDE VIEW



FRONT VIEW WITH COVER



FRONT VIEW WITHOUT COVER

All dimensions are in mm.



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

TAMPER PROOF DEEP DRAWN METAL METER BOX FOR HOUSING THREE PHASE METER WITH CTs & MODEM

SIZE SCALE

DRG. NO.

A3 NTS

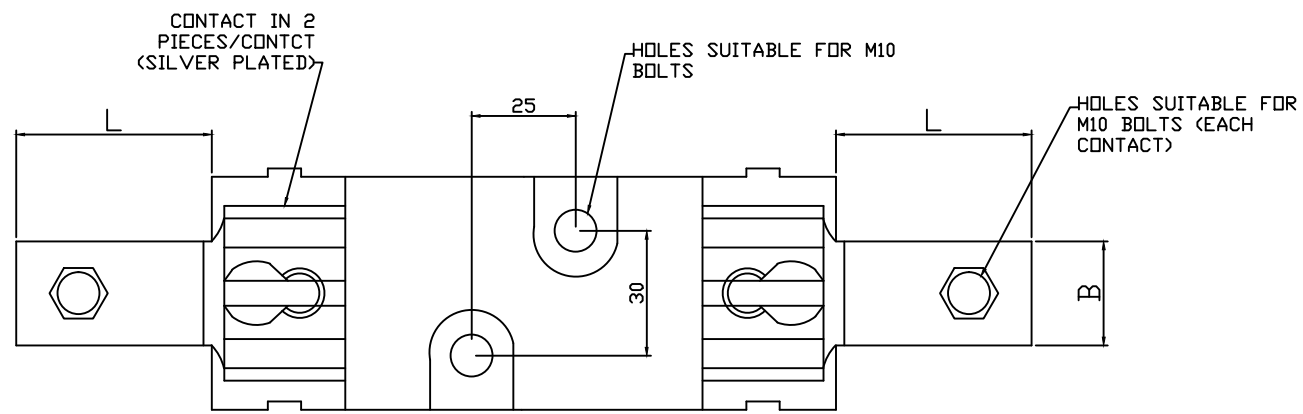
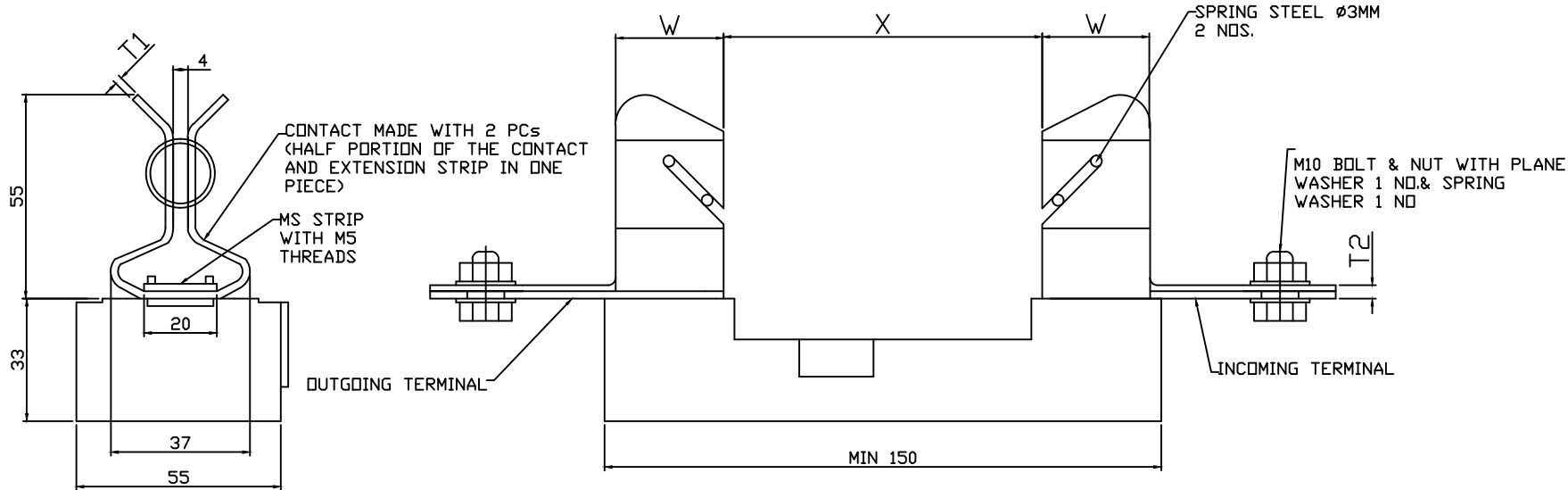
REC/DDUGJY/DTR SS/16

SHT. NO. REV. NO.

1 OF 1 0

FOR TENDER PURPOSE ONLY

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



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**



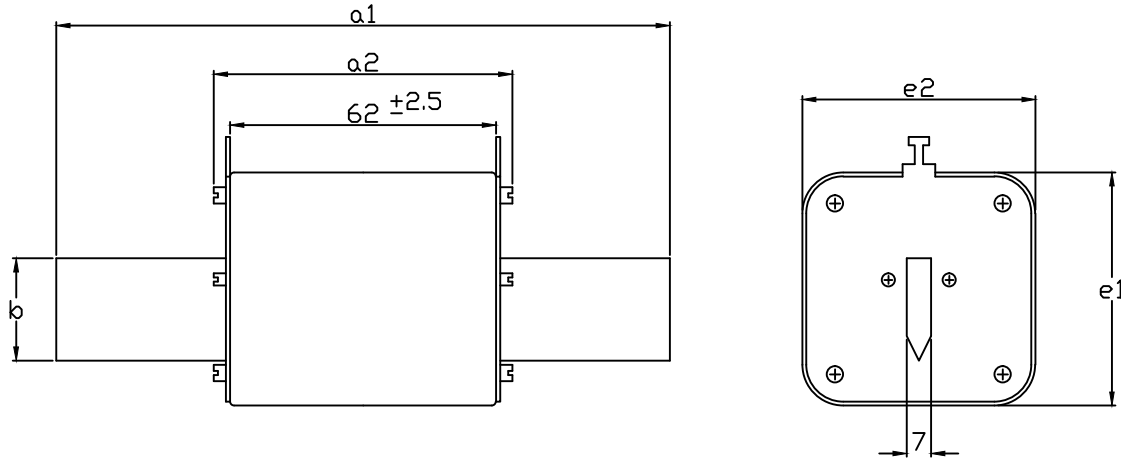
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

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

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



DESCRIPTION	$a_1$	$a_2$ (max.)	$b$ (min)	$e_1$ (max.)	$e_2$ (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:

Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE

HRC FUSE LINK

SIZE SCALE

DRG. NO.

A3 NTS

REC/DDUGJY/DTR SS/19

SHT. NO.

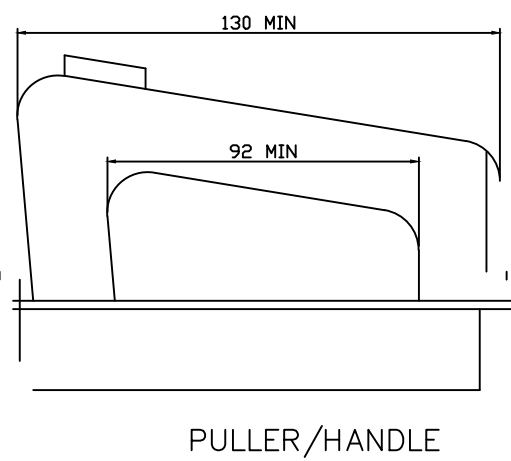
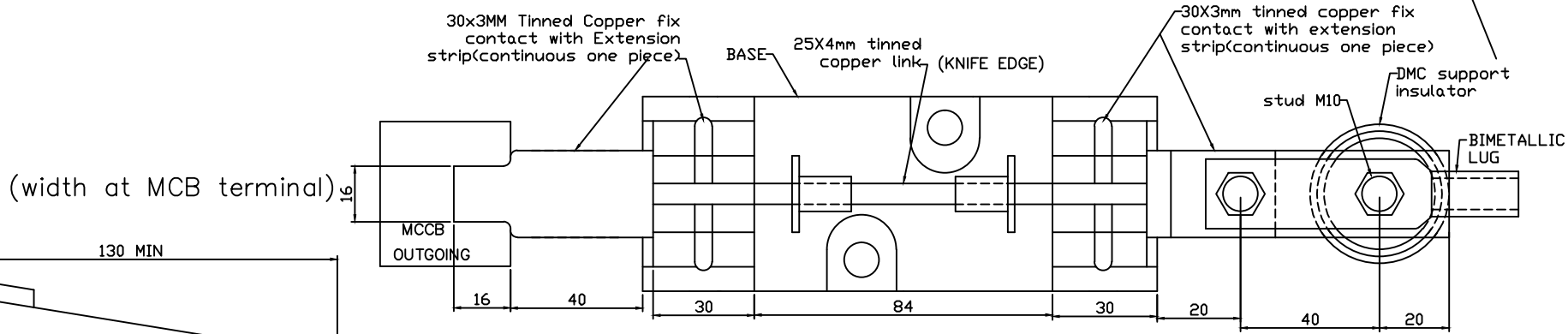
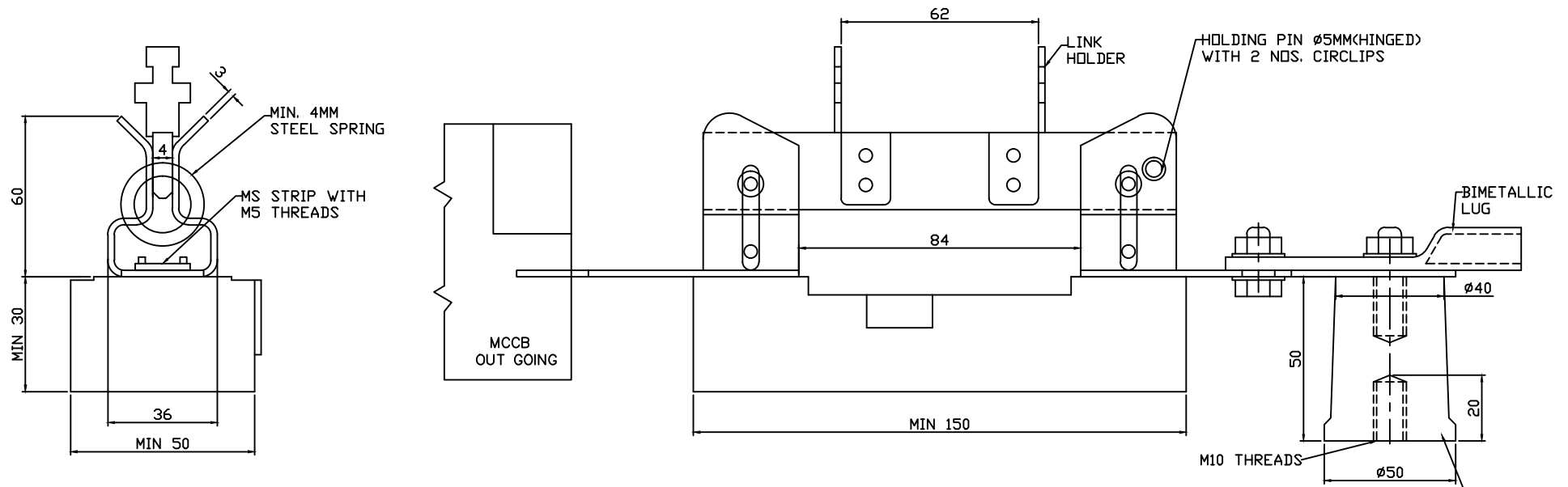
1 OF 1

REV. NO.

0

FOR TENDER PURPOSE ONLY


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



All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**

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



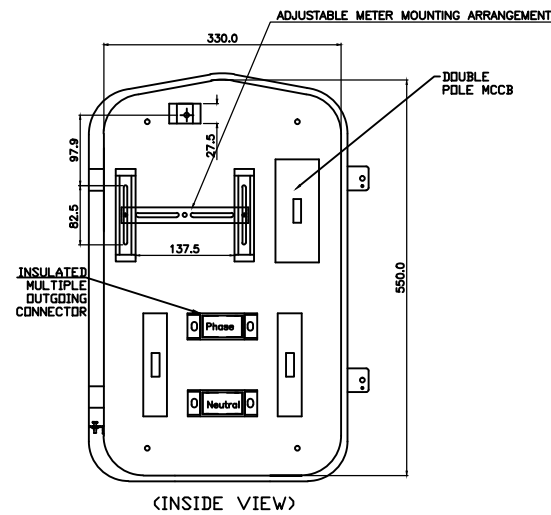
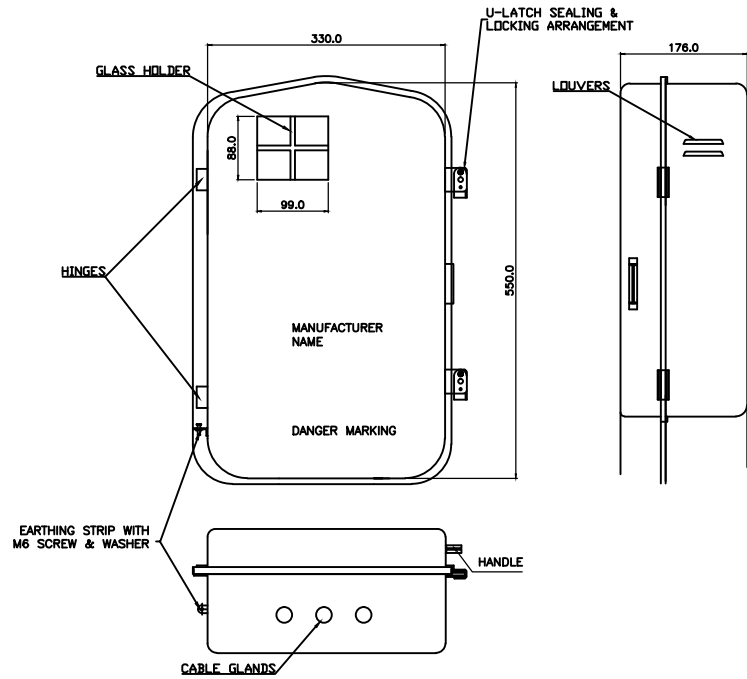
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)**

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

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

**A3 NTS REC/DDUGJY/DTR SS/19 1 OF 1 0**



All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**



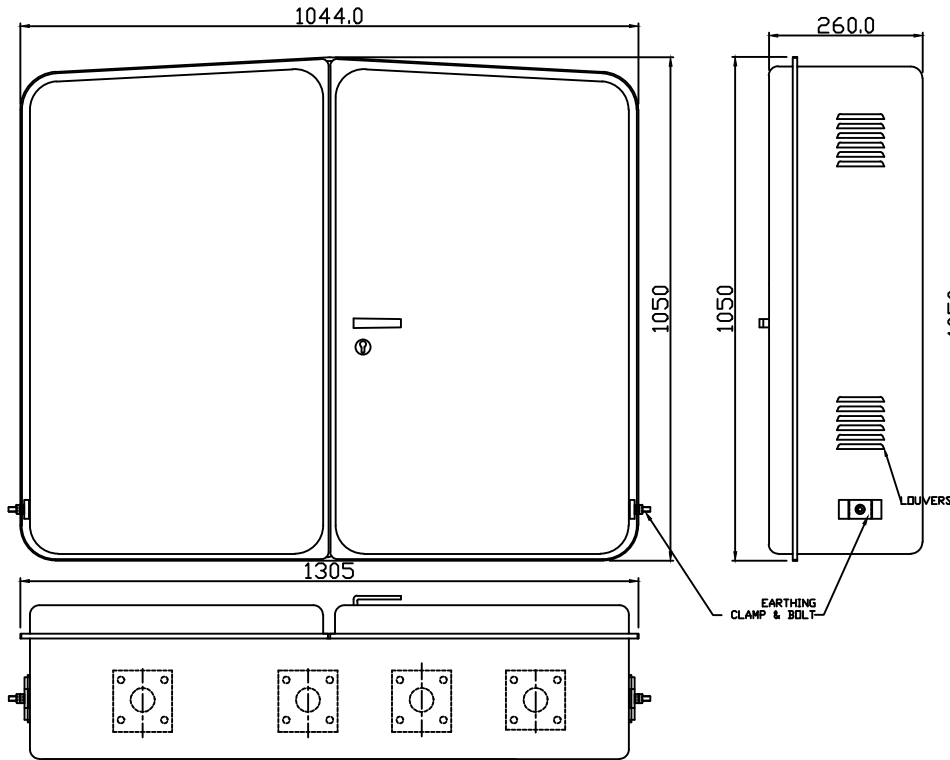
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)  
 TITLE: 10 KVA & 16 KVA L.T. DISTRIBUTION BOX WITH MCCBs (DEEP DRAWN TYPE)

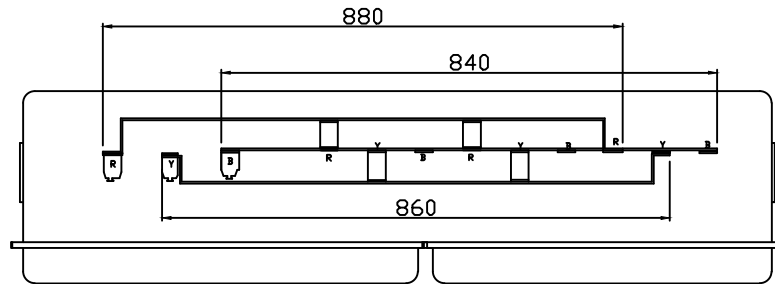
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT

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

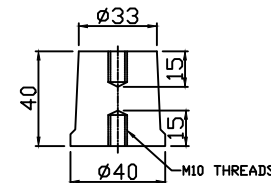
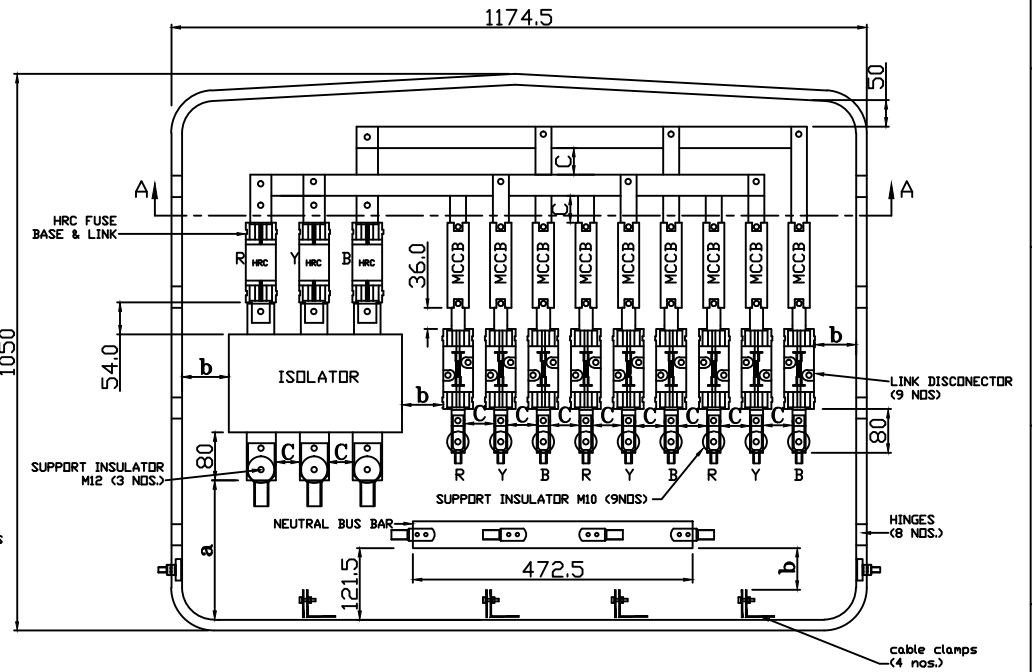




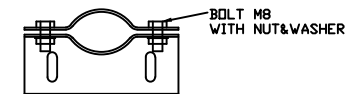
VIEW OF ENCLOSURE WITH CLOSED DOOR.



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



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



DETAILS OF CABLE CLAMPS

L.T. DISTRIBUTION BOX WITH ASSY. DETAILS

All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**

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



**Rural Electrification Corporation Ltd.**

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

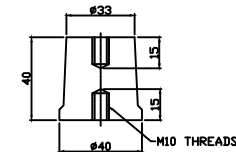
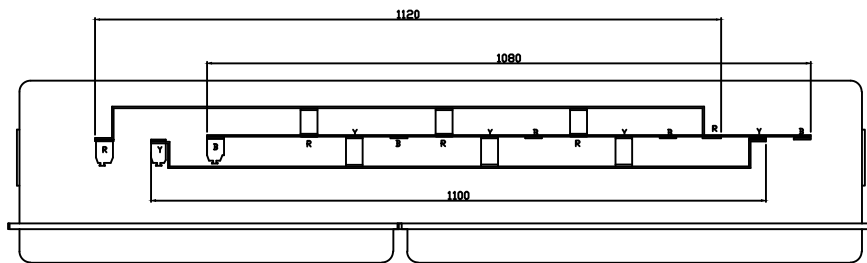
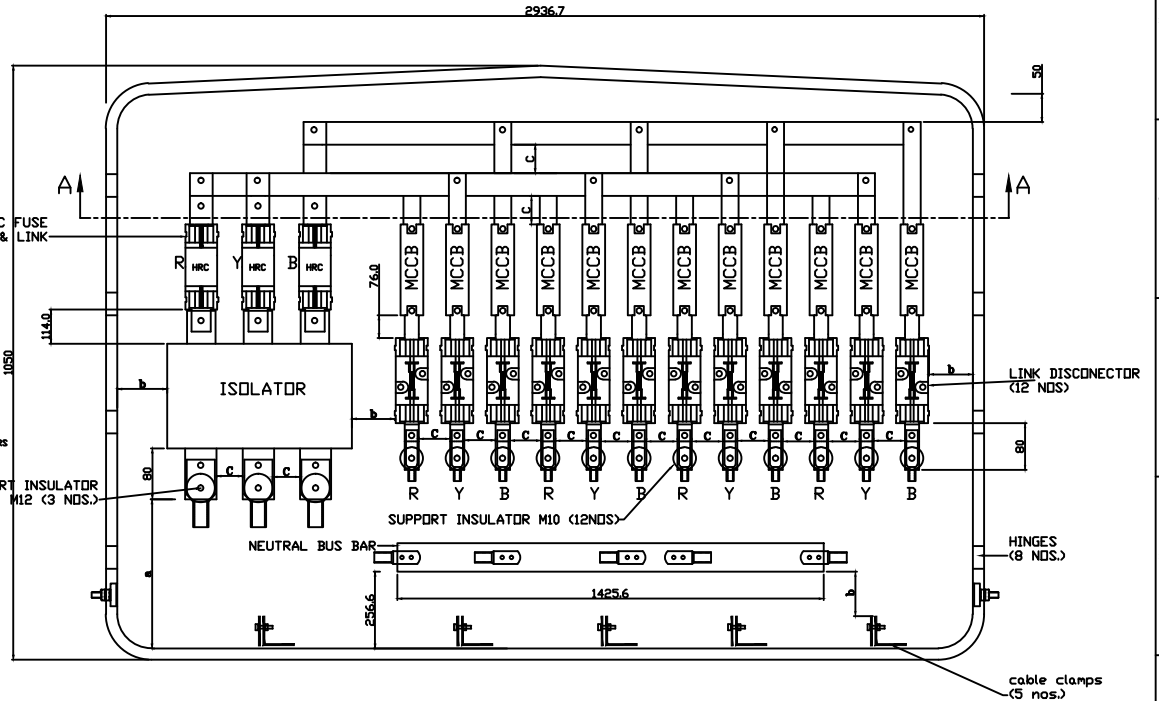
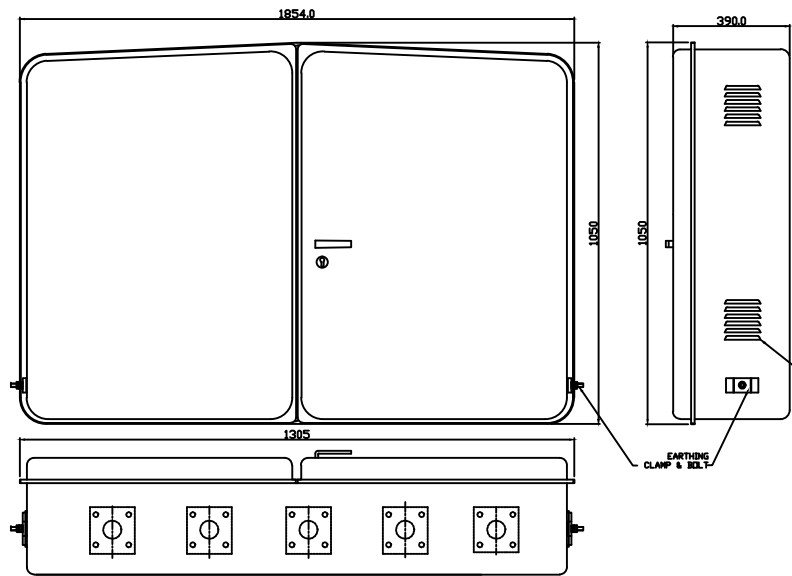
L.T. DISTRIBUTION BOX FOR 200 KVA

SIZE SCALE DRG. NO.

A3 NTS REC/DDUGJY/DTR SS/21

SHT. NO. REV. NO.

1 OF 1 0

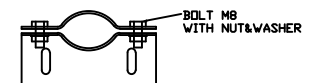


MINIMUM CLEARANCE

a = 250

b = 75

c = 50



ALL DIMENSIONS ARE IN MM  
TOLERANCE - ±3%  
SCALE : N.T.S.

All dimensions are in mm.



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

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

SIZE SCALE

DRG. NO.

A3 NTS

REC/DDUGJY/DTR SS/22

SHT. NO.

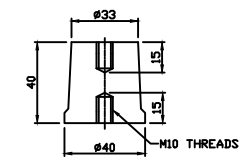
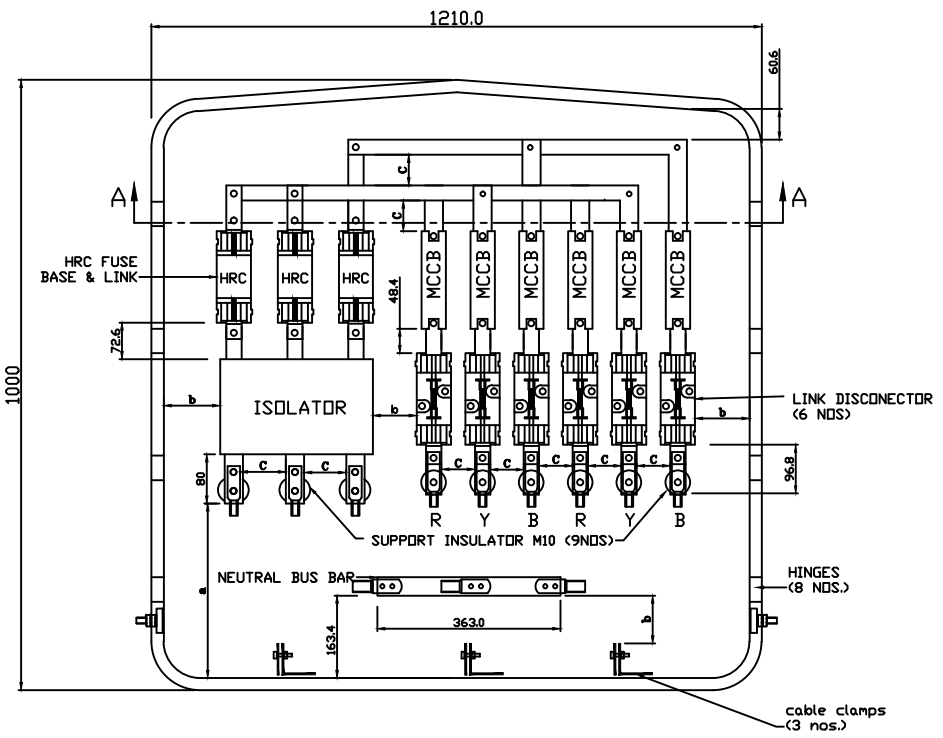
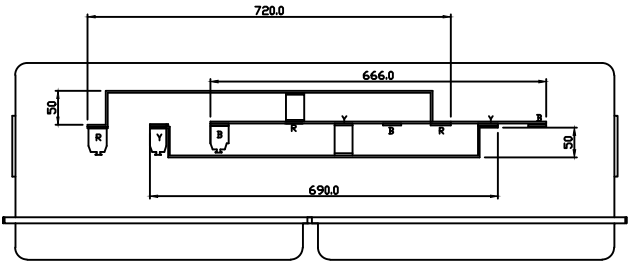
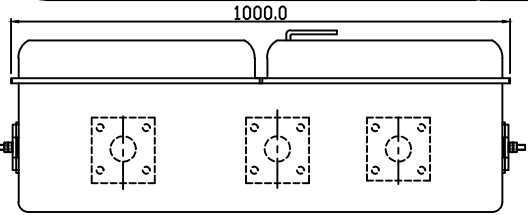
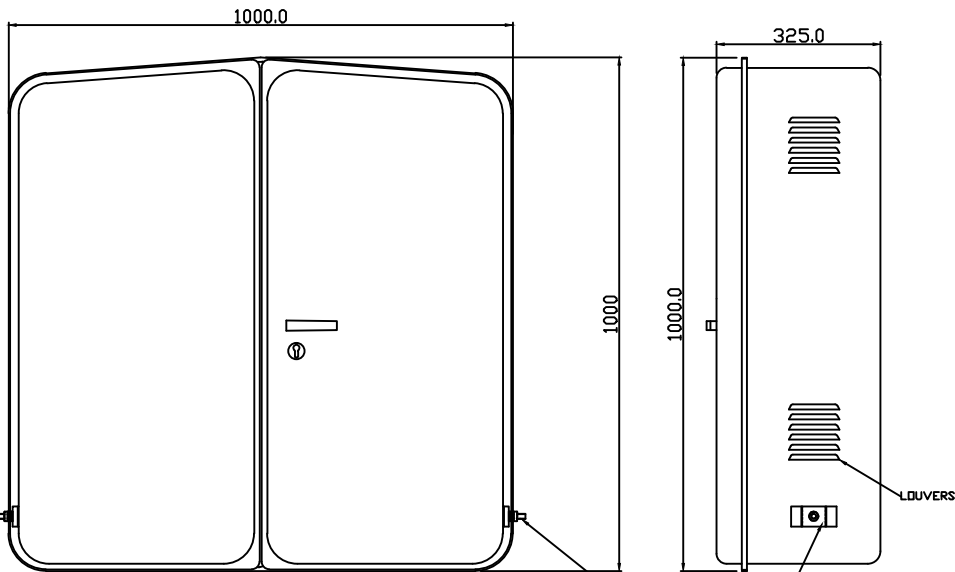
1 OF 1

REV. NO.

0

FOR TENDER PURPOSE ONLY

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



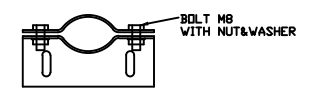
DETAILS OF SUPPORT INSULATOR FOR NEUTRAL BUS BAR (2 Nos.)

MINIMUM CLEARANCE

a = 250


b = 75

c = 50



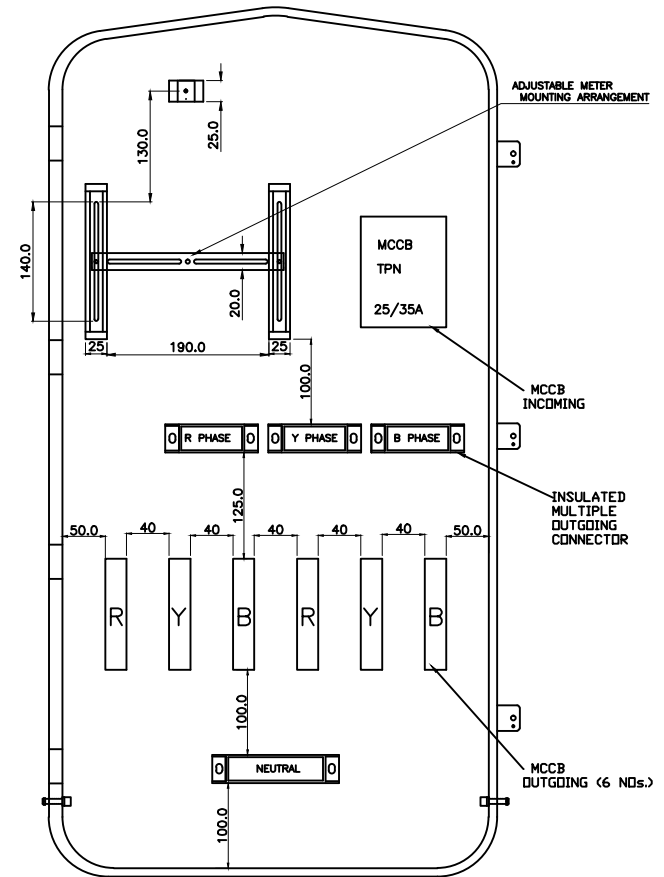
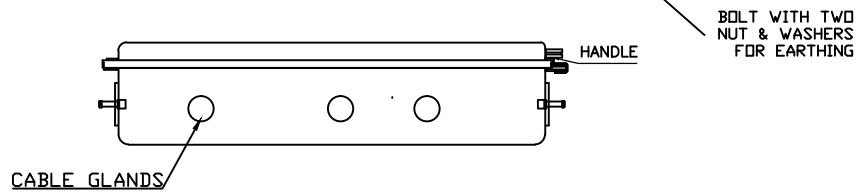
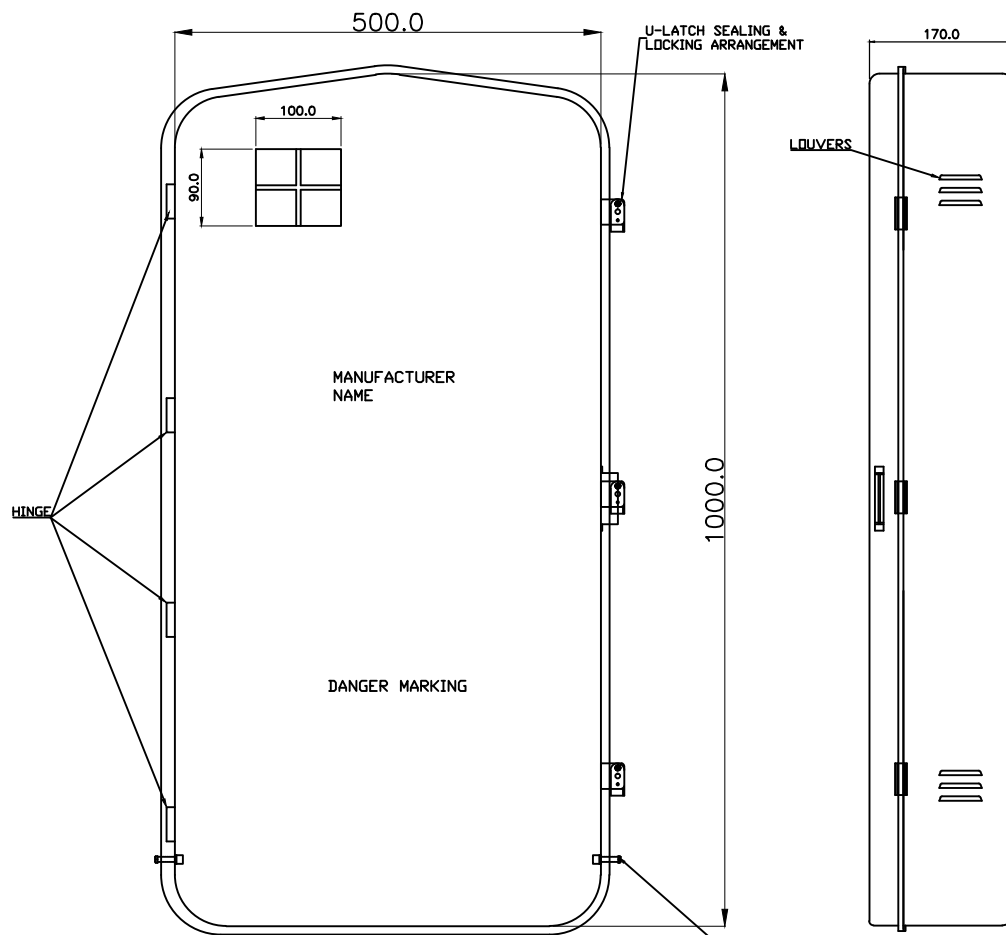
DETAILS OF CABLE CLAMPS

All dimensions are in mm.

 <b>आर ई सी</b> <b>REC</b> <small>समर्पित ऊर्जा, अनन्त संभावनाएं</small> <small>Endless energy, Infinite possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE</b> L.T. DISTRIBUTION BOX WITH ASSY. DETAILS FOR 63/100 KVA			
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/DTR SS/23	<b>SHT. NO.</b> 1 OF 1
<b>REV. NO.</b> R0		<b>PREPARED BY</b> [ ]	<b>REV. NO.</b> 0


**FOR TENDER PURPOSE ONLY**

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



(INSIDE VIEW)

All dimensions are in mm.


**REC** Rural Electrification Corporation Ltd.

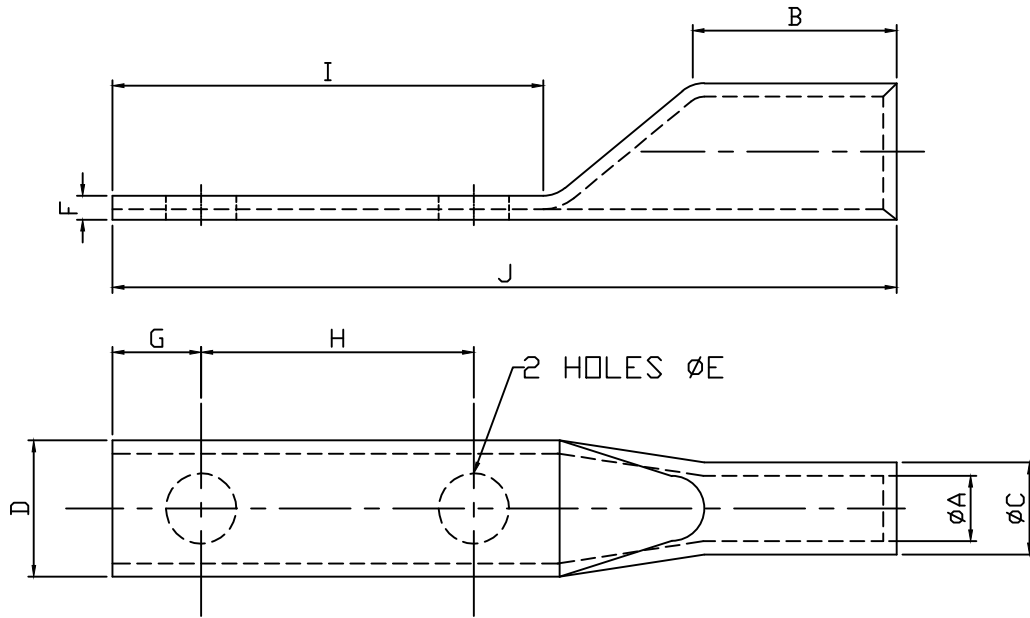
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR SS/24	1 OF 1	0

FOR TENDER PURPOSE ONLY

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



SIZE NO.	∅A	∅C	D	F	∅E	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:

Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE

BIMETALLIC LUGS

SIZE SCALE

DRG. NO.

A3 NTS

REC/DDUGJY/DTR SS/25

SHT. NO.

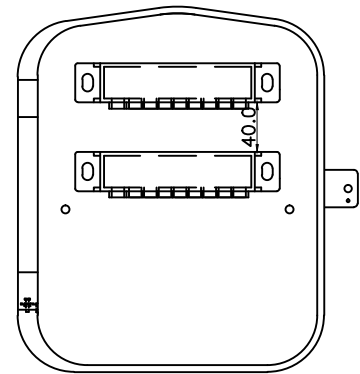
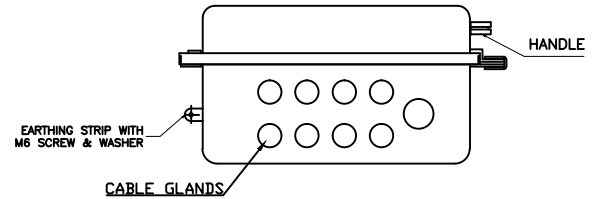
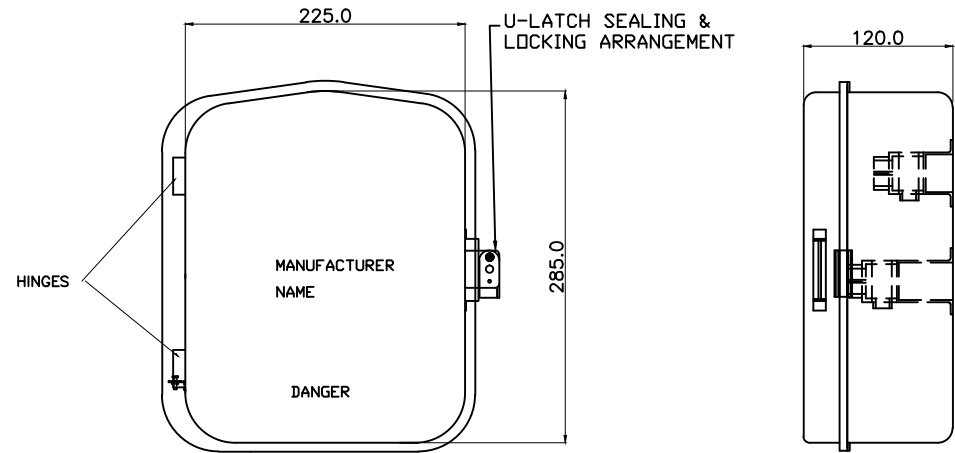
1 OF 1

REV. NO.

0

FOR TENDER PURPOSE ONLY

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



(INSIDE VIEW)

All dimensions are in mm.

FOR TENDER PURPOSE ONLY

 **REC** Rural Electrification Corporation Ltd.

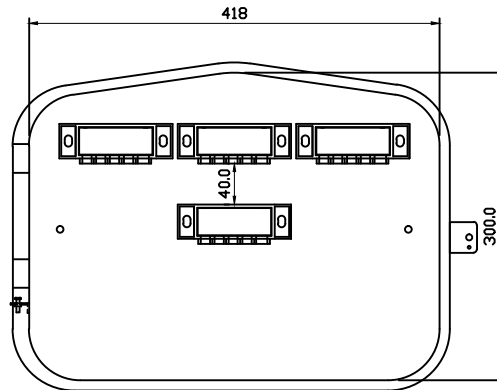
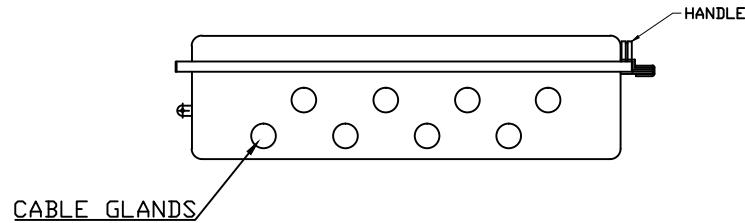
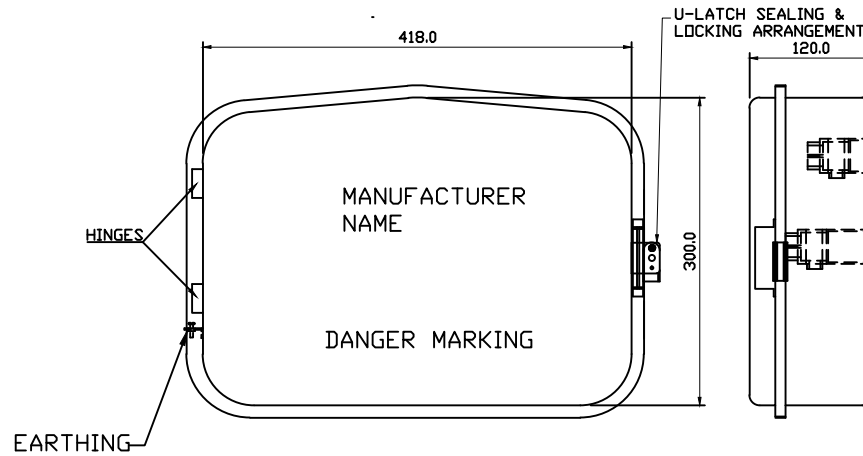
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE: LT DISTRIBUTION BOX FOR SINGLE PHASE ABC

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

SIZE	SCALE	DRG. NO.
A3	NTS	REC/DDUGJY/DTR SS/26

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



(INSIDE VIEW)

All dimensions are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

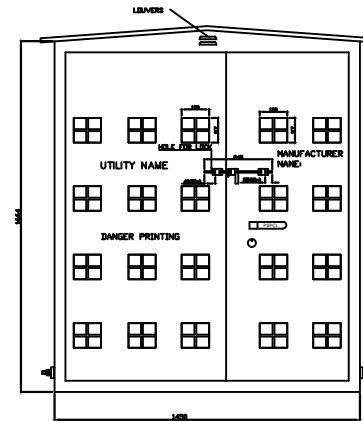
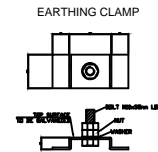
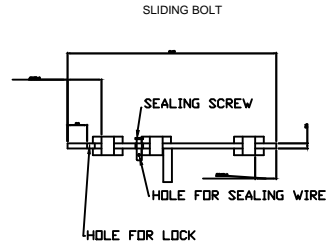
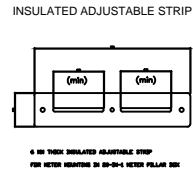
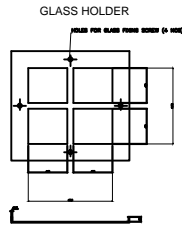
Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE

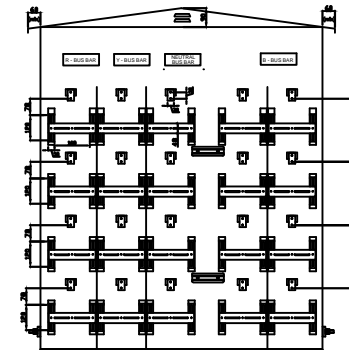
DEEP DRAWN TYPE 3 PHASE L.T. DISTRIBUTION BOX FOR AB CABLE

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR SS/27	1 OF 1	0

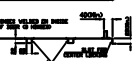
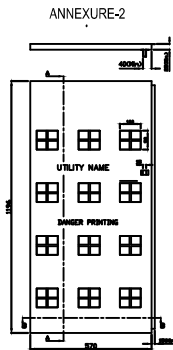


METER PILLAR BOX



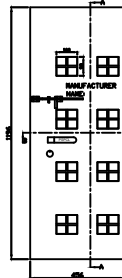
FRONT VIEW

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

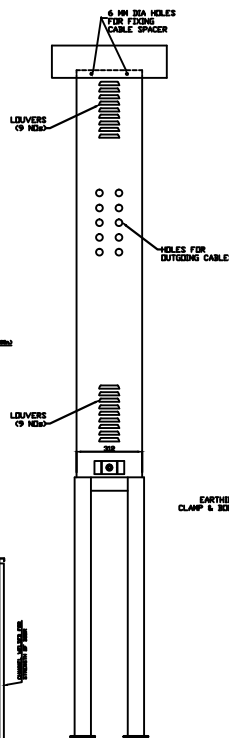


DOOR (LEFT)

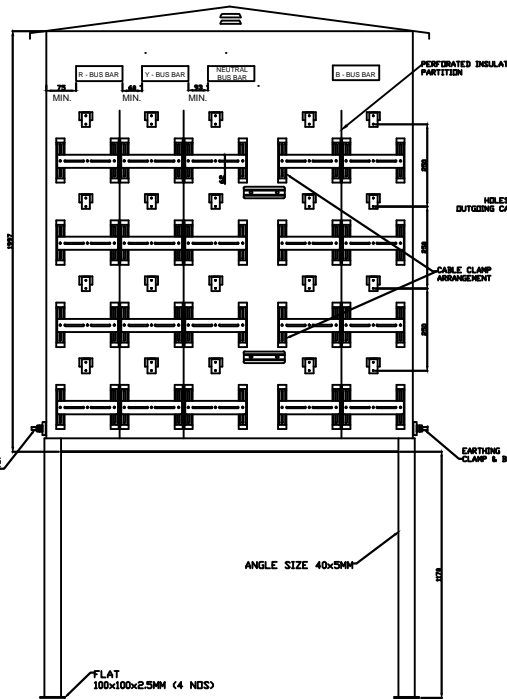
ANNEXURE-3



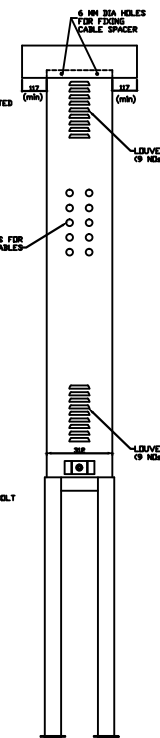
DOOR (RIGHT)



SIDE VIEW (L)



FRONT VIEW



SIDE VIEW (R)

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

All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**

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



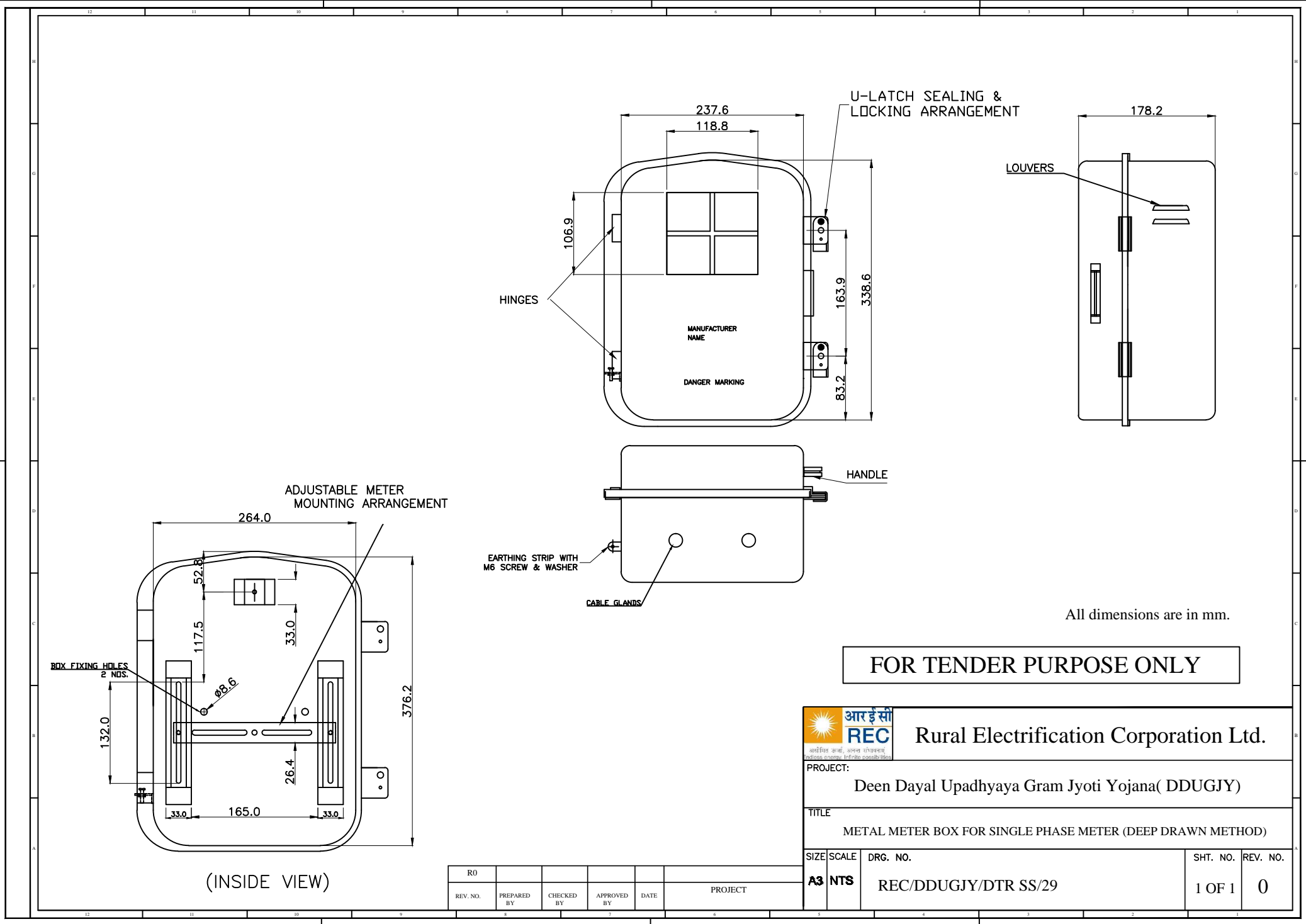
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

TITLE: PILLAR BOX WITH INSIDE DETAILS OF METER MOUNTING ARRANGEMENT


SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3 NTS	REC/DDUGJY/DTR SS/28	1 OF 1	0



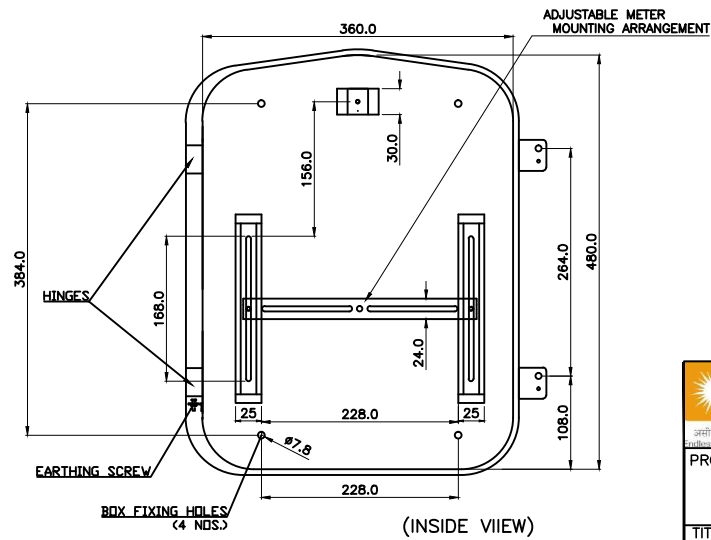
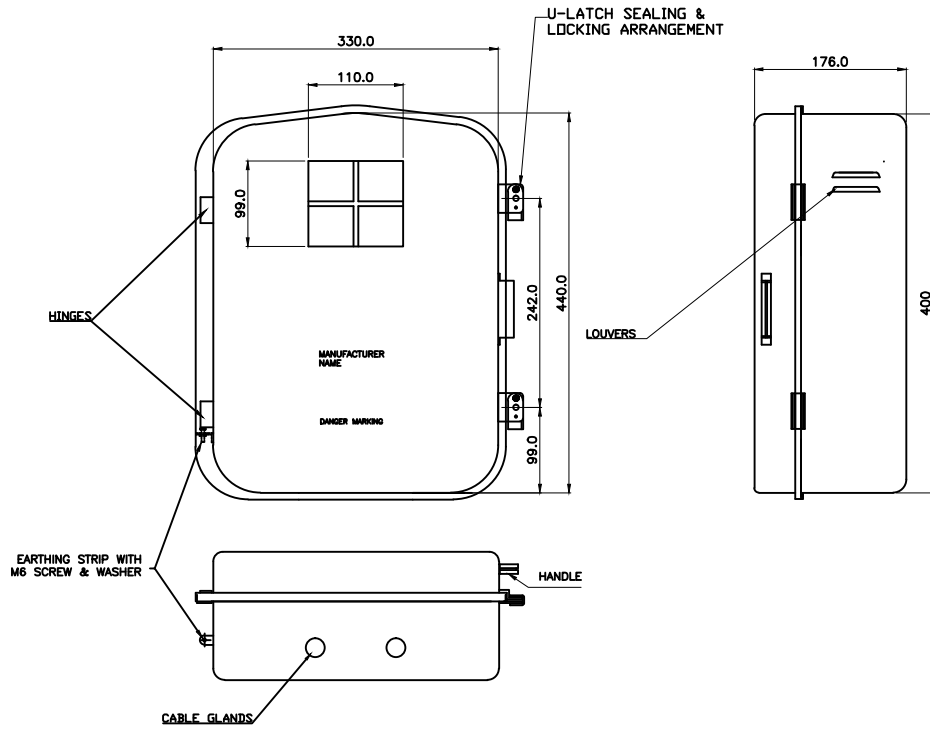


All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**

 <b>आर ई सी</b> <b>REC</b> <small>समर्पित ऊर्जा, अनन्त संभावनाएं</small> <small>Endless energy, Infinite possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)			
<b>TITLE</b> METAL METER BOX FOR SINGLE PHASE METER (DEEP DRAWN METHOD)			
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/DTR SS/29	<b>SHT. NO.</b> 1 OF 1
<b>REV. NO.</b> R0		<b>REV. NO.</b> 0	<b>REV. NO.</b> 0

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



All dimensions are in MM.

**FOR TENDER PURPOSE ONLY**



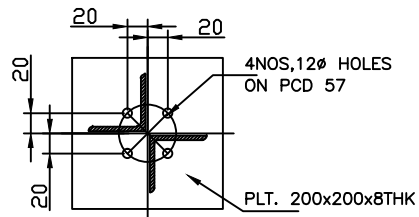
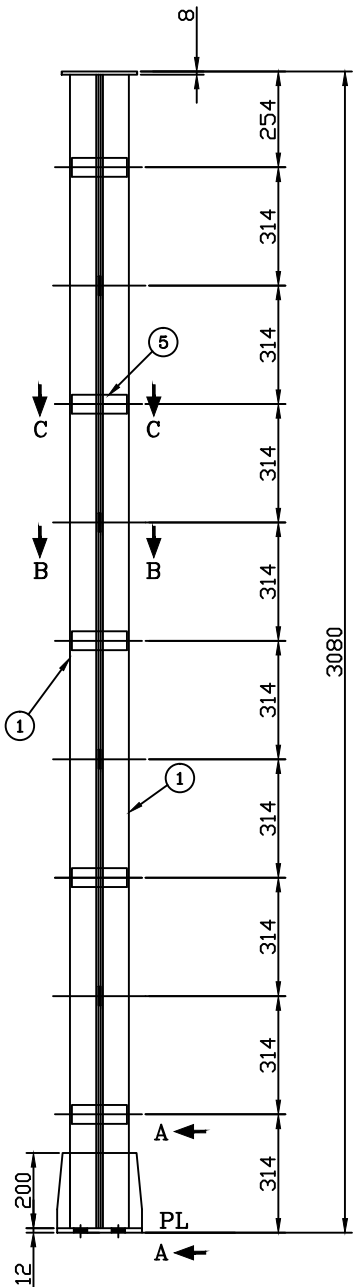
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

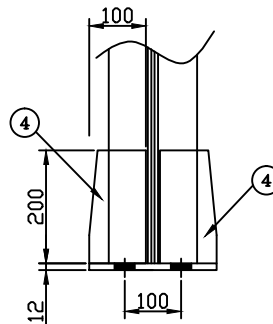
TITLE: **METAL METER BOX FOR THREE PHASE METER (DEEP DRAWN METHOD)**

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

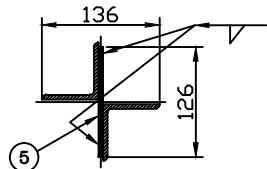
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/DTR SS/30	1 OF 1	0



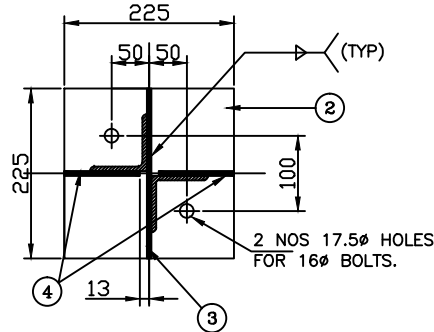
TOP PLAN



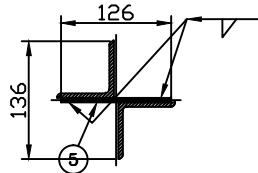
VIEW A-A



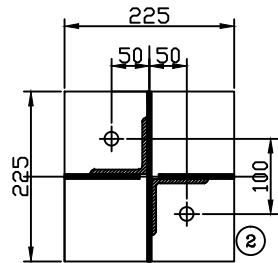
SECTION C-C



DETAIL OF BASE PLATE



SECTION B-B



BASE PLAN

BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 65x65x6	2	3054	-	5.80	35.426
2	PL. 12Thk	1	225	225	94.2	4.769
3	PL. 6Thk	1	200	225	47.10	2.120
4	PL. 6Thk	2	100	200	47.10	1.884
5	PL. 6Thk	8	50	146	47.10	2.751
6	PL. 8Thk	1	200	200	62.80	2.512
<b>TOTAL WEIGHT OF STRUCTURE</b>						<b>49.46</b>

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 $\phi$  FOR 16mm $\phi$  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/Sq.m FOR ALL STRUCTURAL STEEL MEMEBERS.
4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x50x6 WILL HAVE 28mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREFIXED WITH "3PI"
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: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE STRUCTURAL DETAILS OF 11kV PI

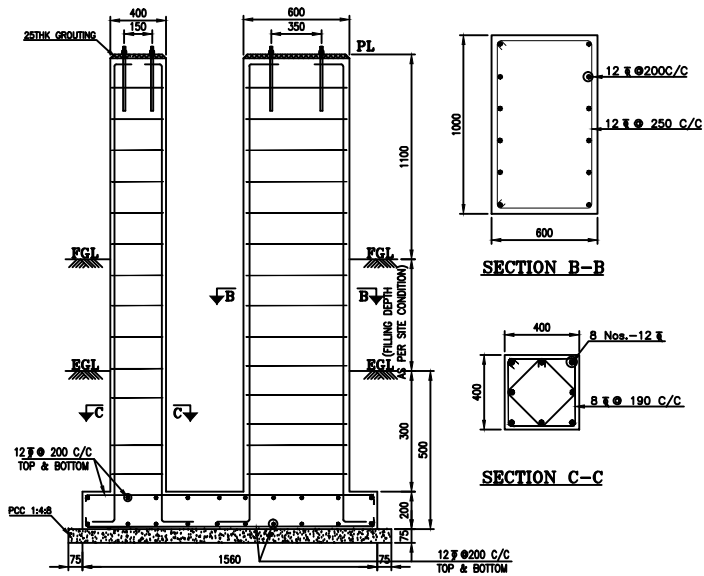
SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/33/11kV PSS/01	SHT. NO. 1 OF 1	REV. NO. 0
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R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

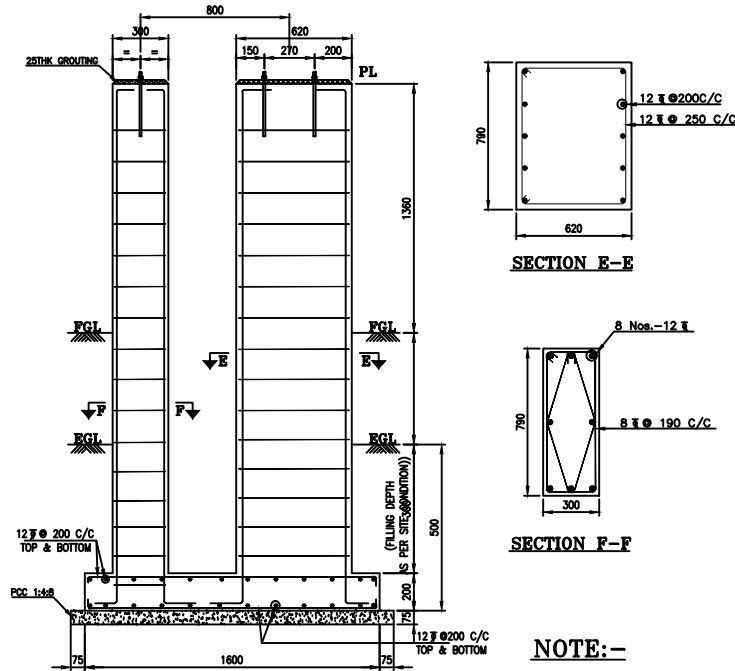




MAKE : OLG



MAKE : SIEMENS



NOTE:-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL CONCRETE GRADE M20
3. REINFORCEMENT STEEL SHALL BE HYSD BAR.
4. CLEAR COVERS TO REBARS SHALL BE AS FOLLOWS  
 FOUNDATION RAFTS - 50  
 PEDESTALS - 50
5. LAP LENGTH TO REBAR SHALL BE MIN. 50 DIA AND LAPS IN ALTERNATIVE BARS SHALL BE STAGGERED.
6. FOR DETAILS OF FOUNDATION BOLT REFER DRG NO: (3)G71570-X8205-F003, SIEMENS LTD. MAKE.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

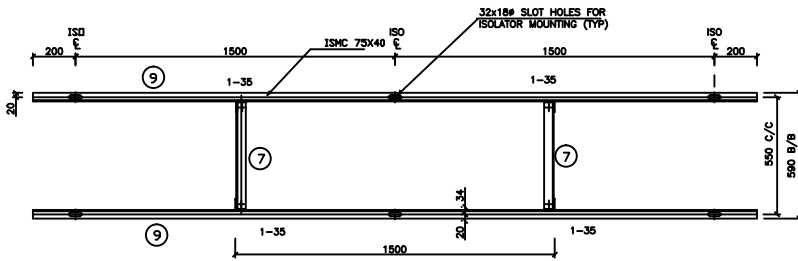
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE FOUNDATION DETAILS OF 11KV VCB&CT

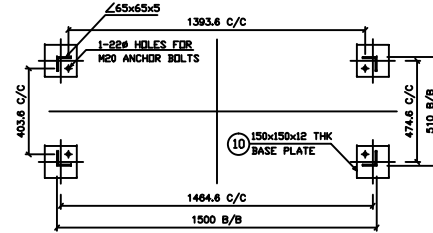
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REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/04	1 OF 1	0

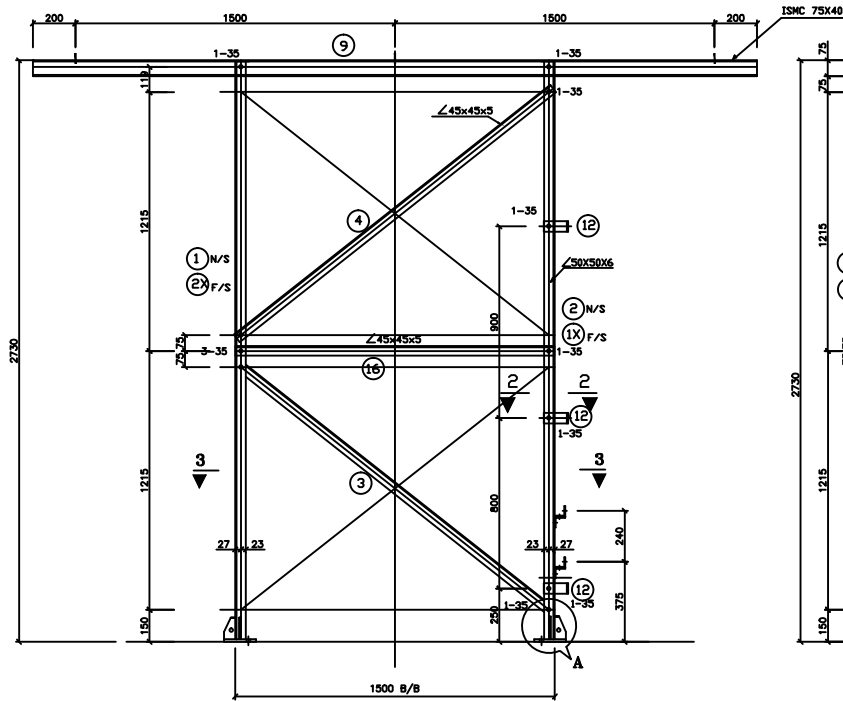




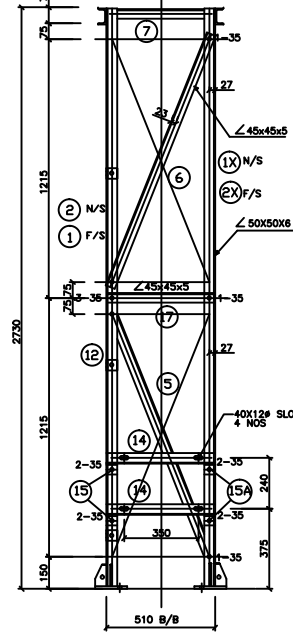
**TOP PLAN**  
**MOUNTING ARRANGEMENT PLAN FOR ISOLATOR**



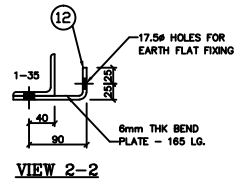
**VIEW 3-3**



**FRONT ELEVATION**



**SIDE ELEVATION**



**VIEW 2-2**

**WEIGHT OF STRUCTURAL STEEL : 231.86kg**  
**WEIGHT OF BOLTS/NUTS : 6.65 kg**  
**WEIGHT OF THE STRUCTURE : 238.51kg**

BILL OF MATERIAL					
ERECTION MARKS	DESCRIPTION	LENGTH IN mm	QUANTITY IN Nos.	UNIT WT. IN Kg.	TOTAL WT. IN Kg.
1	L 50 x 50 x 6	2718	1	4.5	48.92
2	L 45 x 45 x 5	1890	2	3.4	12.85
3	L 45 x 45 x 5	1890	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	829	2	3.4	5.63
8A	L 45 x 45 x 5	791	2	3.4	5.38
9	CHANNEL 75 x 40	3400	2	7.2	48.96
10	12mm THK. M.S BASE PLATE	150x150	4	94.2	8.48
11	8mm THK. M.S STIFFNER PLATE	100x57	8	62.8	2.86
12	6mm THK BEND 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	0.988
16	L 45 x 45 x 5	1496	2	3.4	10.17
17	L 45 x 45 x 5	506	2	3.4	3.44
TOTAL WEIGHT OF STRUCTURAL STEEL =					231.86

HEX BOLT M16x35 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**

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
- ALL HOLES ARE 17.5mmØ FOR 16mmØ BOLTS UNLESS SPECIFIED OTHERWISE
- ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANISED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/Sq.m FOR ALL STRUCTURAL STEEL MEMBERS.
- ALL L45x45x5 WILL HAVE 23mm BACK MARK.
- ALL L50x50x5 WILL HAVE 28mm BACK MARK.
- 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
- ALL ERECTION MARK SHALL BE PREFIXED WITH "3ISD"
- ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062.
- ALL WELDS SHALL BE 6 mm FILLET WELD UNLESS SPECIFIED OTHERWISE.
- ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.6 OF IS: 1367.
- 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:**

**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

**TITLE**

**STRUCTURAL DETAILS OF 33kV ISOLATOR**

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE

A3

SCALE  
NTS

DRG. NO.

REC/DDUGJY/33/11kV PSS/06

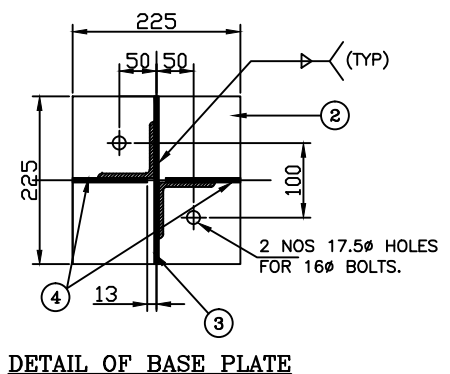
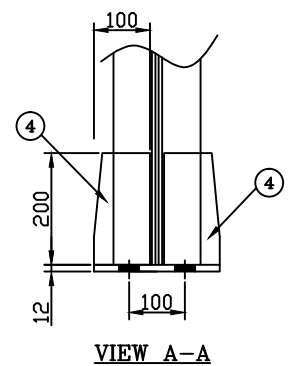
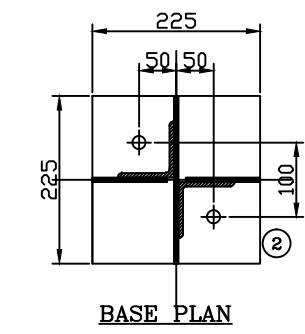
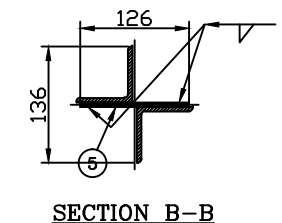
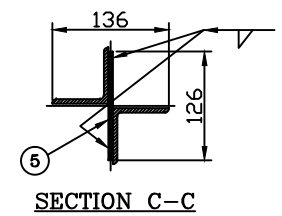
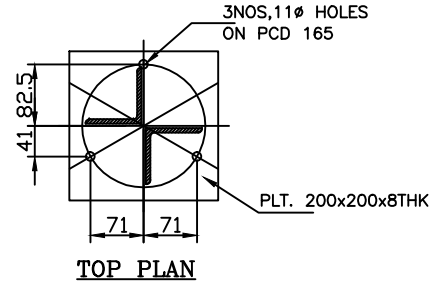
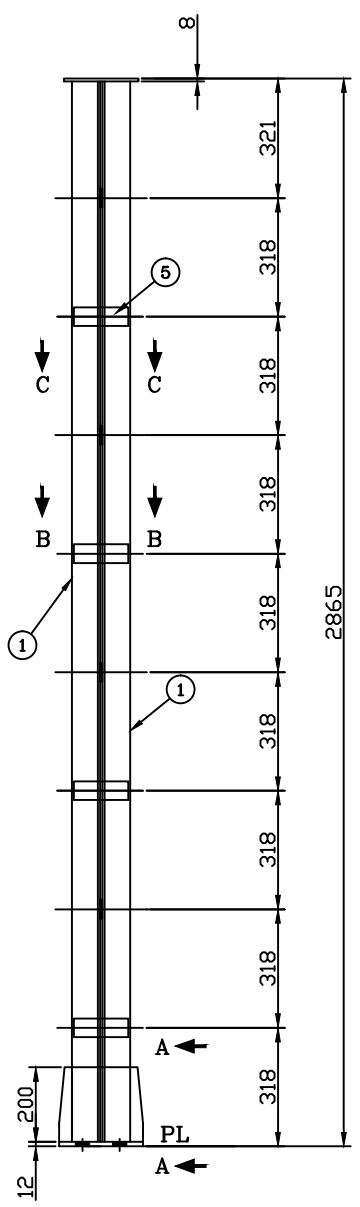
SHT. NO.

1 OF 1

REV. NO.

0





BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 65x65x6	2	2845	-	5.80	33.002
2	PL. 12Thk	1	225	225	94.2	4.769
3	PL. 6Thk	1	200	225	47.10	2.120
4	PL. 6Thk	2	100	200	47.10	1.884
5	PL. 6Thk	8	50	146	47.10	2.751
6	PL. 8Thk	1	200	200	62.80	2.512
<b>TOTAL WEIGHT OF STRUCTURE</b>						<b>47.04</b>

**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 17.5mmØ FOR 16mmØ BOLTS UNLESS SPECIFIED OTHERWISE
3. ALL STRUCTURAL STEEL MEMBERS & BOLTS SHALL BE GALVANISED AFTER FABRICATION AS PER IS: 4759 AND ZINC COATING SHALL NOT BE LESS THAN 610gm/Sq.m FOR ALL STRUCTURAL STEEL MEMEBERS.
4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x50x6 WILL HAVE 28mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE PREFIXED WITH "3LA"
8. ALL STRUCTURAL STEEL SHALL CONFORM TO IS: 2062.
9. ALL WELDS SHALL BE 6 mm FILLET WELD UNLESS SPECIFIED OTHERWISE.
10. ALL BOLTS & NUTS SHALL BE OF PROPERTY CLASS 5.6 OF IS: 1363 & 1367.
11. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.

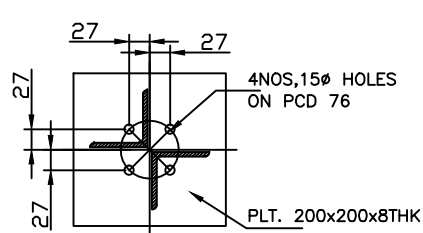
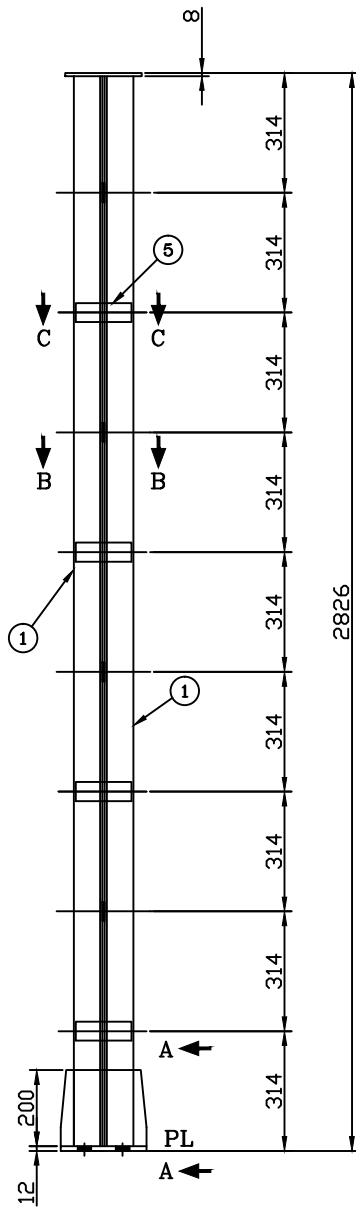
**FOR TENDER PURPOSE ONLY**


**Rural Electrification Corporation Ltd.**

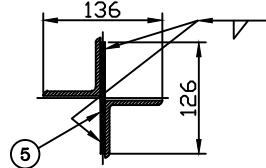
**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

**TITLE STRUCTURAL DETAILS OF 33kV LA**

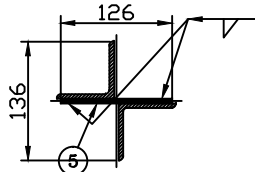
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/DDUGJY/33/11kV PSS/07	1 OF 1	0



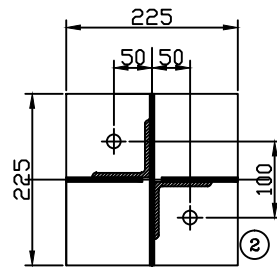
TOP PLAN



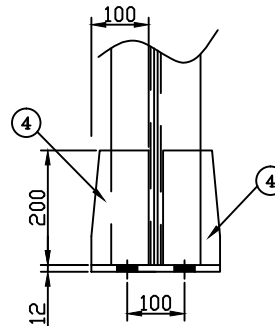
SECTION C-C



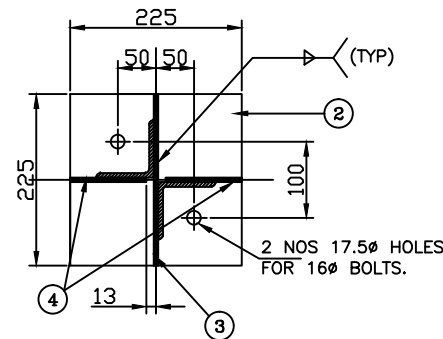
SECTION B-B



BASE PLAN



VIEW A-A



DETAIL OF BASE PLATE

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

WEIGHT OF THE STRUCTURE : 46.58 kg


PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

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

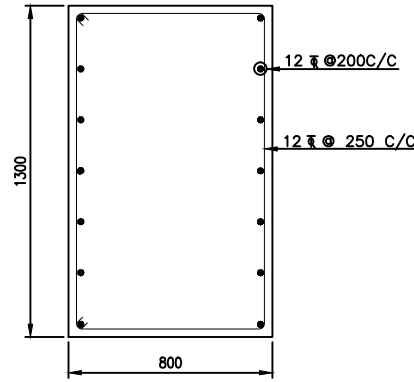
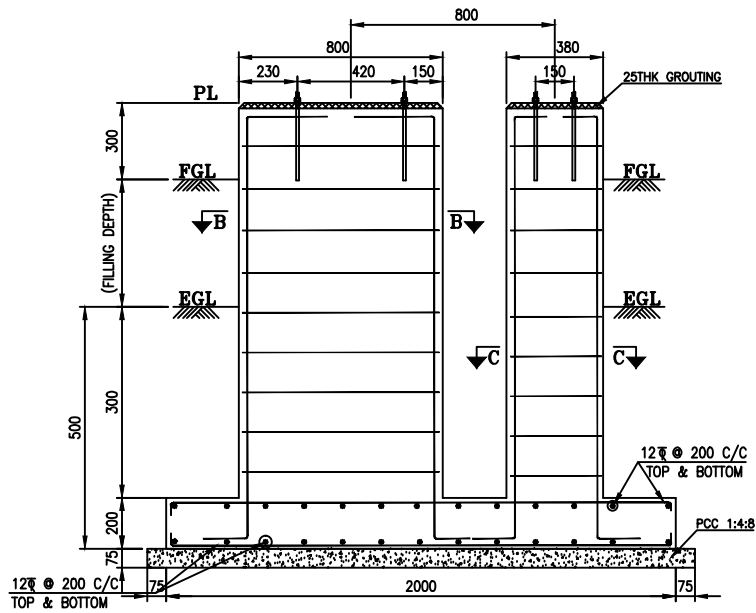
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED
2. ALL HOLES ARE 17.5mm $\phi$  FOR 16mm $\phi$  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/Sq.m FOR ALL STRUCTURAL STEEL MEMEBERS.
4. ALL L45x45x5 WILL HAVE 23mm BACK MARK.
5. ALL L50x50x6 WILL HAVE 28mm BACK MARK.
6. 3.5mm SPRING WASHERS TO BE USED UNDER EACH NUT.
7. ALL ERECTION MARK SHALL BE 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.

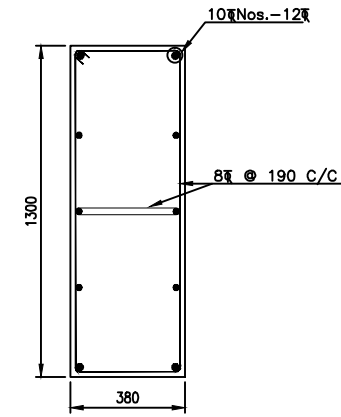
FOR TENDER PURPOSE ONLY

		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE</b> STRUCTURAL DETAILS OF 33kV PI				
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/08	1 OF 1	0

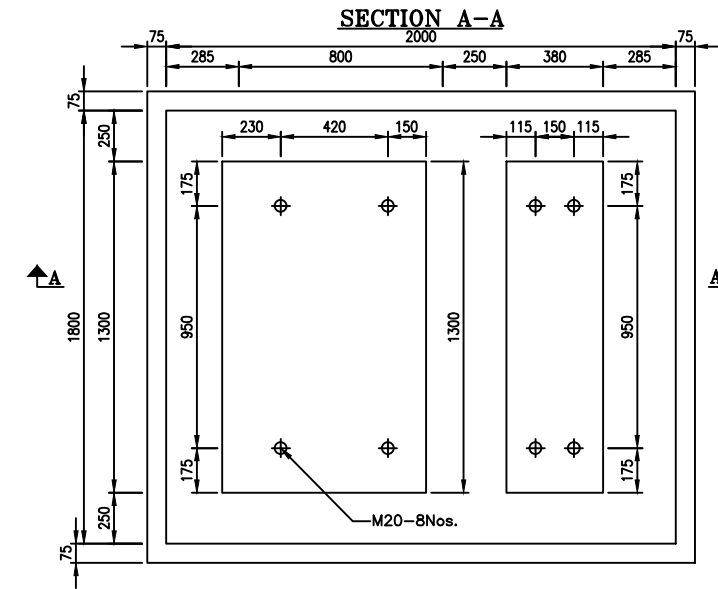
R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



SECTION B-B



SECTION C-C



FOUNDATION PLAN

**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 RAFTS - 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-XB205-F003, SIEMENS LTD. MAKE.

FOR TENDER PURPOSE ONLY



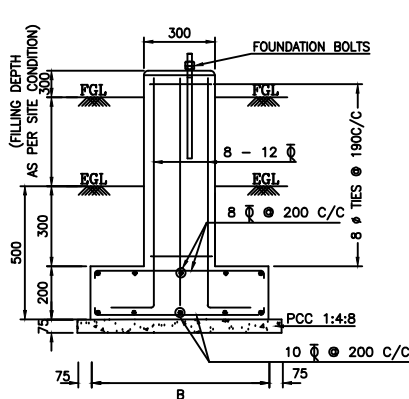
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

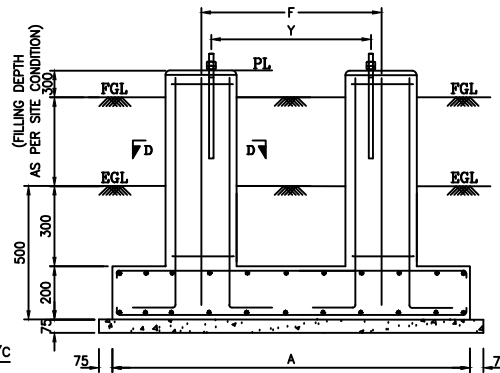
TITLE FOUNDATION DETAILS OF 33KV VCB&CT

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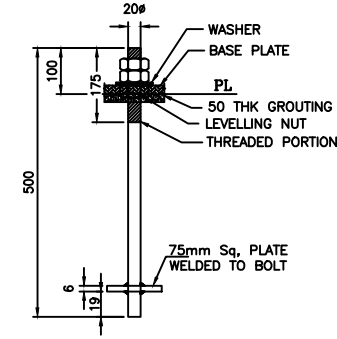
SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/33/11kV PSS/09	SHT. NO. 1 OF 1	REV. NO. 0
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SECTION A-A

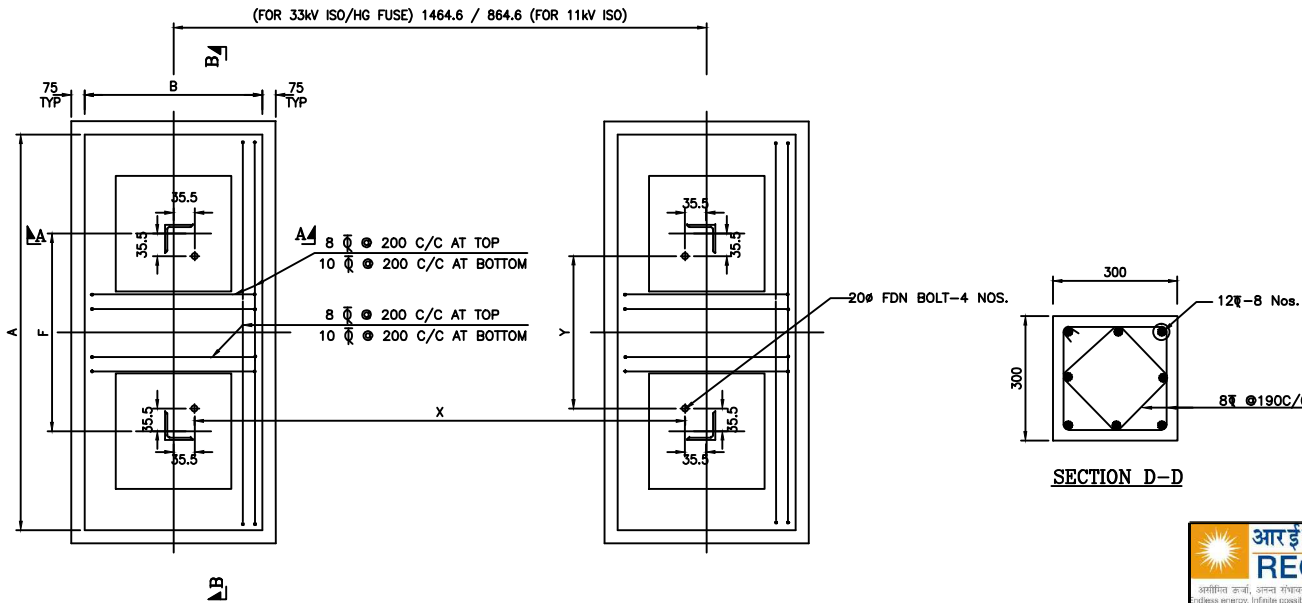


SECTION B-B



FOUNDATION BOLT DETAIL

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



FOUNDATION PLAN

NOTES:-

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

FOR TENDER PURPOSE ONLY

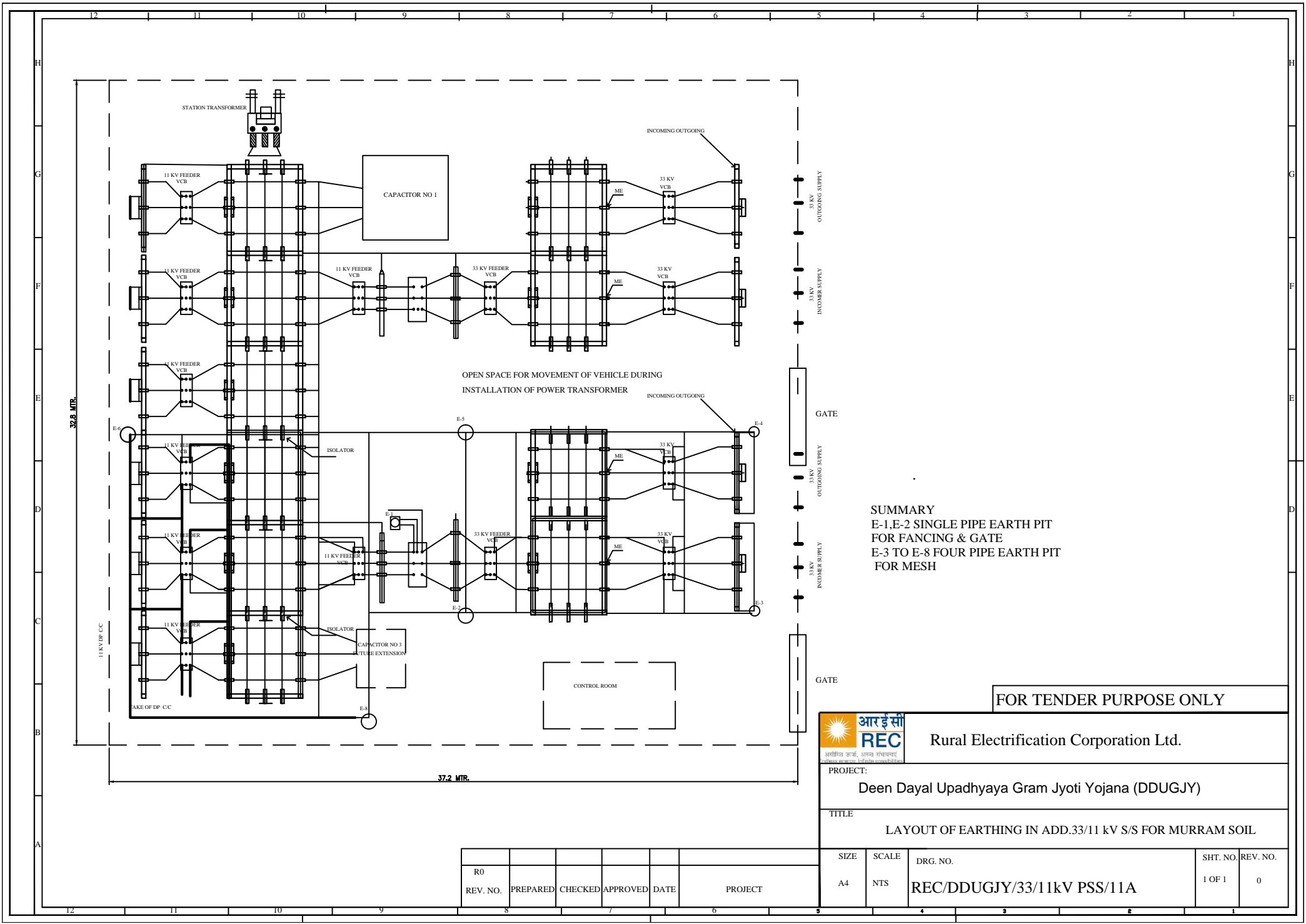


Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

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



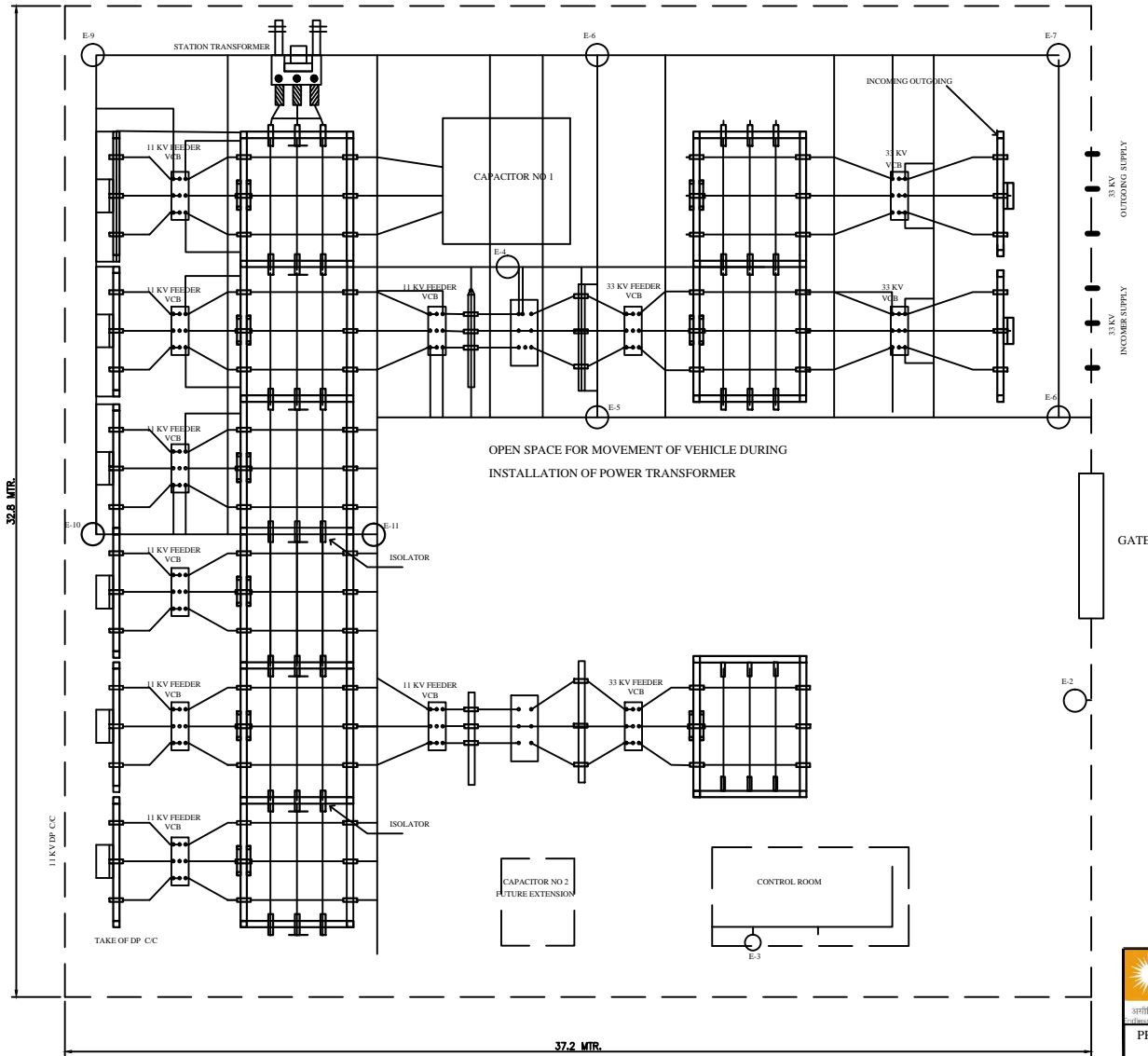
Rural Electrification Corporation Ltd.

PROJECT:  
 Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE  
 LAYOUT OF EARTHING IN ADD.33/11 kV S/S FOR MURRAM SOIL

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/DDUGJY/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



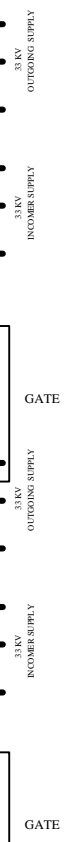
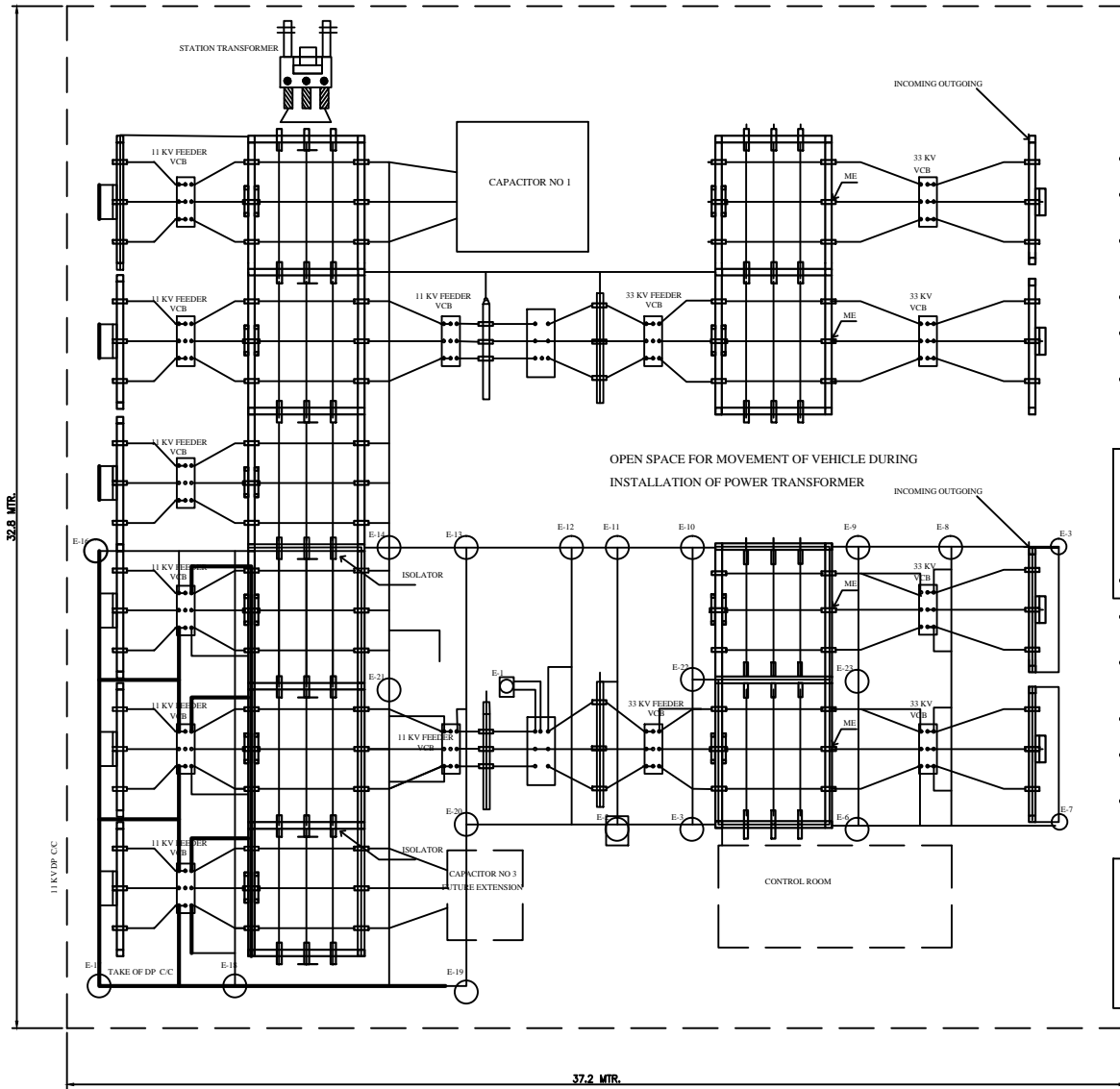
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



**SUMMARY**  
 E-1 TO E-3,3 NOS. BORE EARTHING 60 MTR DEPTH & 150 MM GI PIPE OF B CLASS ( 1 FOR PTR NEUTRAL , 1 FOR MESH & 1 FOR LA)  
 E-4 TO E-23 20 NOS. CHEM ROD EARTHING FOR MESH.

FOR TENDER PURPOSE ONLY

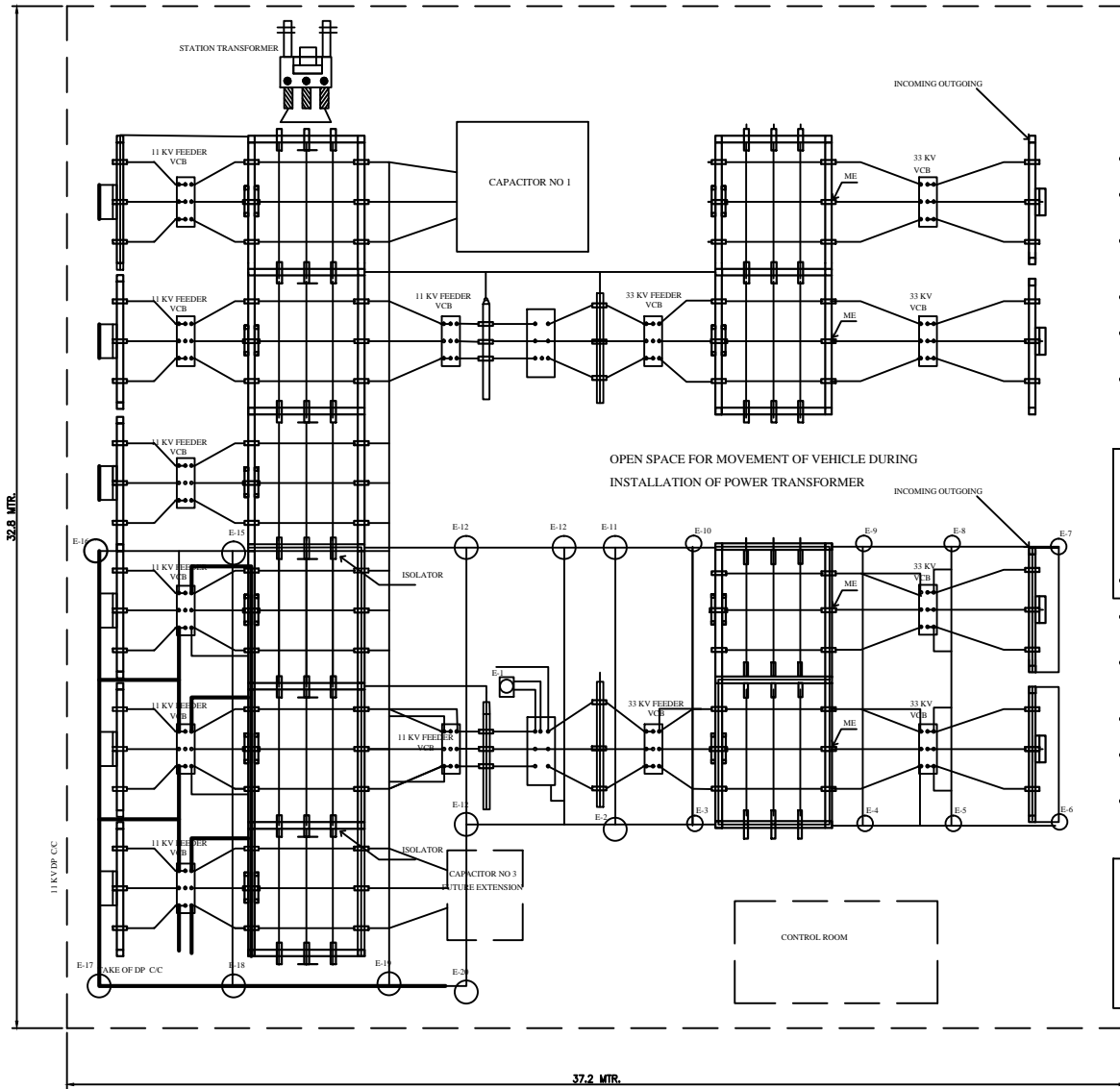
 **आर ई सी**  
**REC**  
 Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/DDUGJY/33/11kV PSS /12A	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.

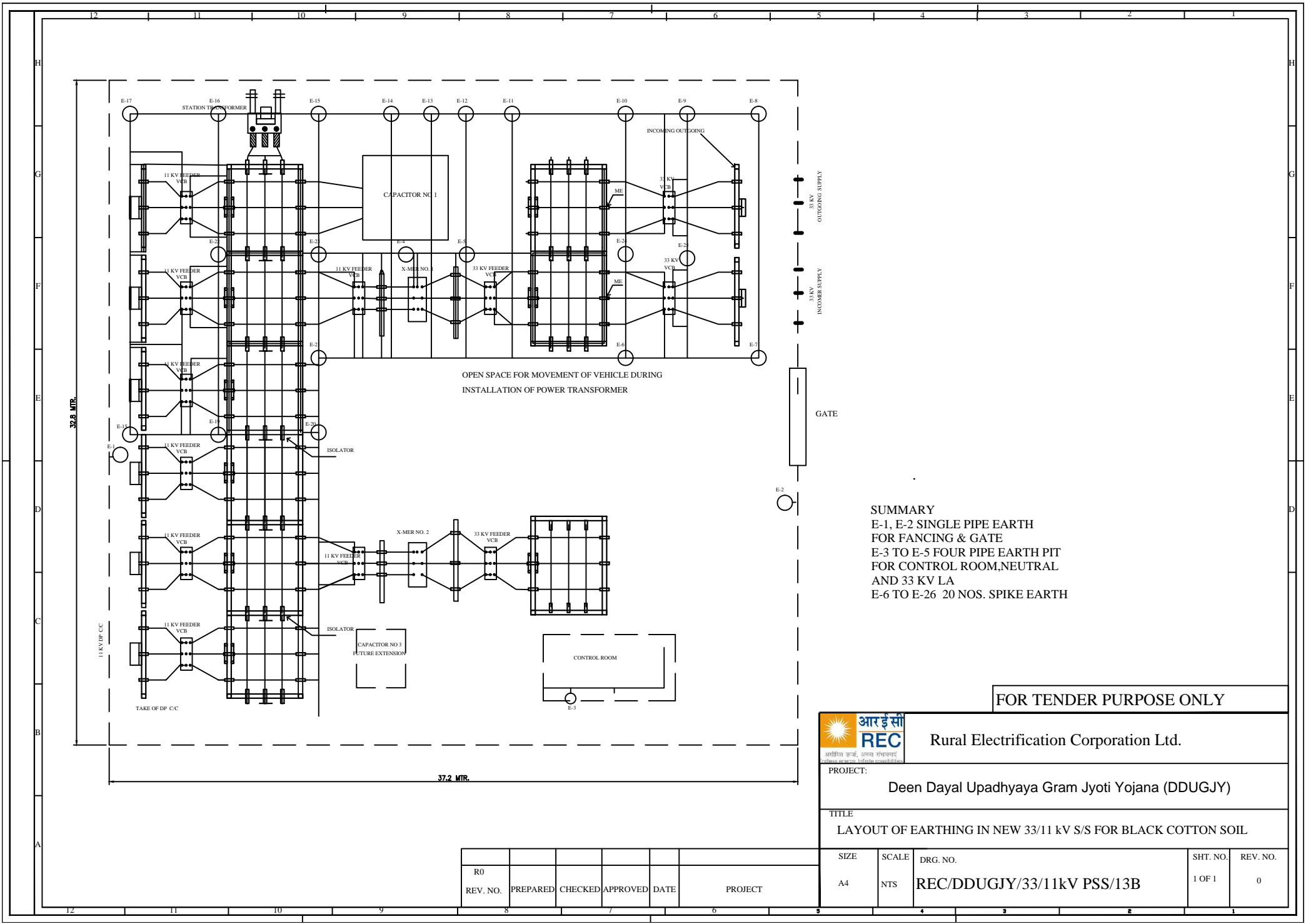
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





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

FOR TENDER PURPOSE ONLY


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

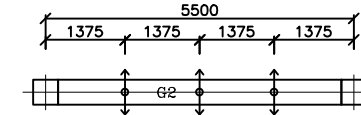
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

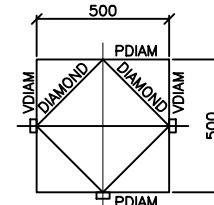
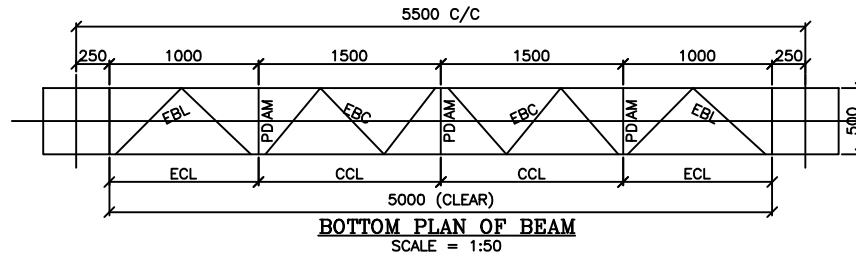
R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

BEAM MKD	ANGLE SIZE & NOS OF BOLTS	ECL	CCL	EBL	EBC	VDIAM	PBL	PBC	R1 PDIAM	DIAMOND
G2 (33kV)	ANGLE SIZE	L60X60X6	L60X60X6	L45X45X5	L45X45X5	2L45X45X5 B/B	L45X45X5	L45X45X5	L60X60X6	L45X45X5
	NOS OF BOLTS	2DS-6 TH. PLT	2DS-6 TH. PLT	02	02	02	02	02	02	02



KEY PLAN



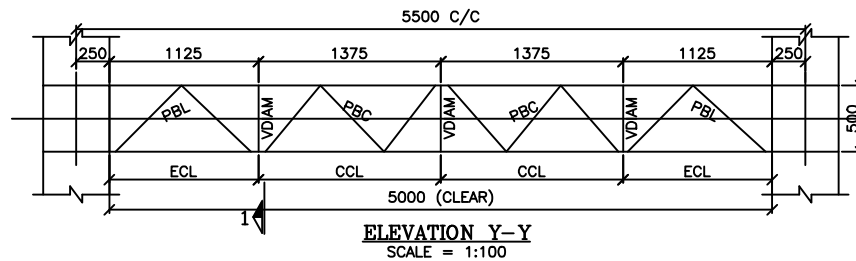
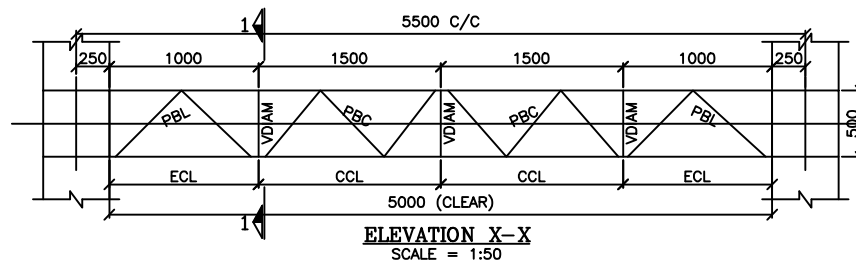
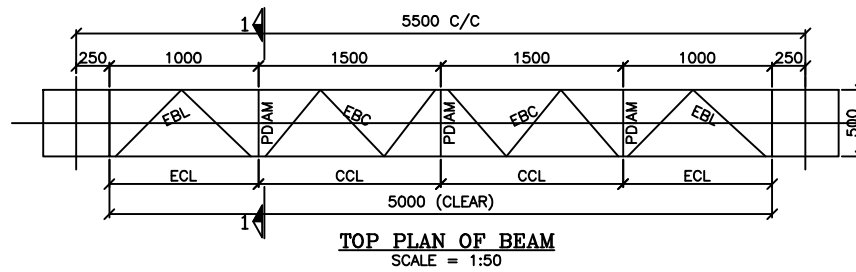
SECTION 1-1  
SCALE = 1:25

**NOTES:**

- HIGHLIGHT:-  
SPAN OF GIRDER=5.5M (C/C)  
SPAN OF GIRDER=5.0M (CLEAR)  
CROSS SECTION OF GIRDER=0.5MX0.5M

**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 0.610kg/m<sup>2</sup> FOR BOLTS & FOR STRUCTURAL MEMBERS.



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

33kV BEAM STRUCTURE

SIZE

A3

SCALE

NTS

DRG. NO.

REC/DDUGJY/33/11kV PSS/14A

SHT. NO.

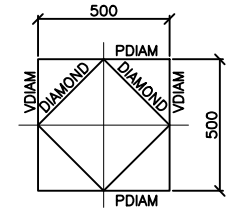
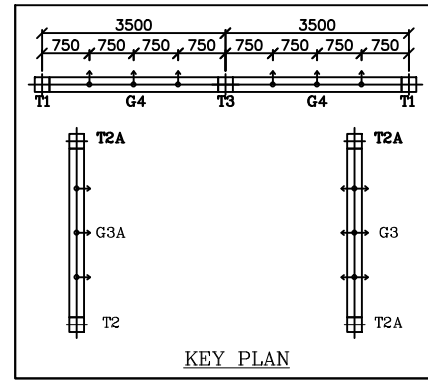
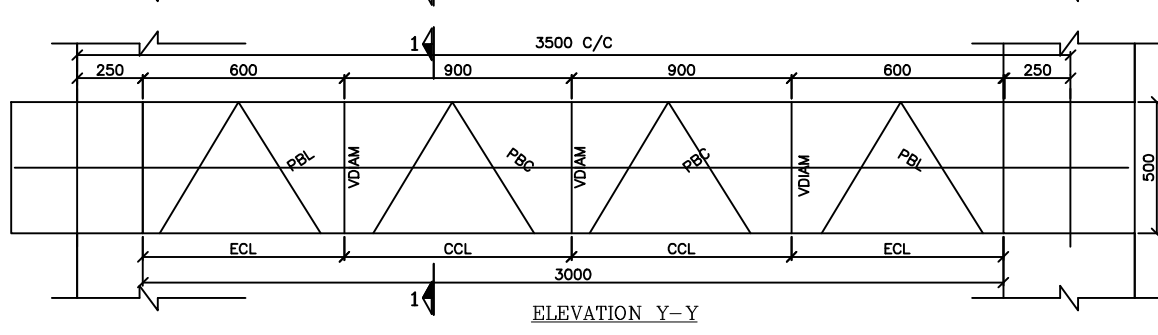
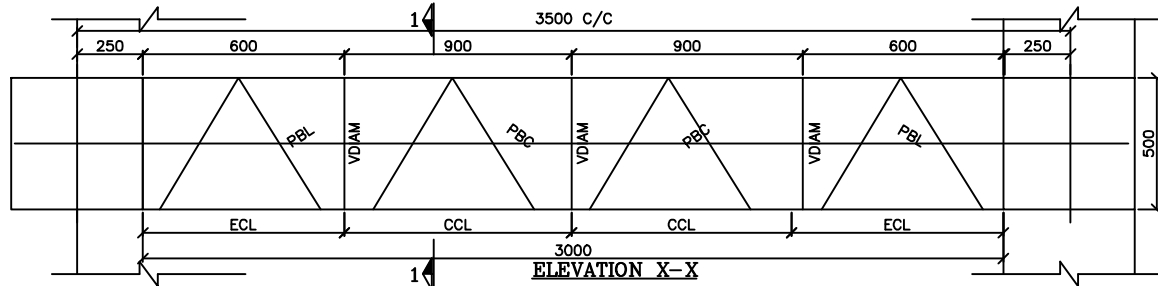
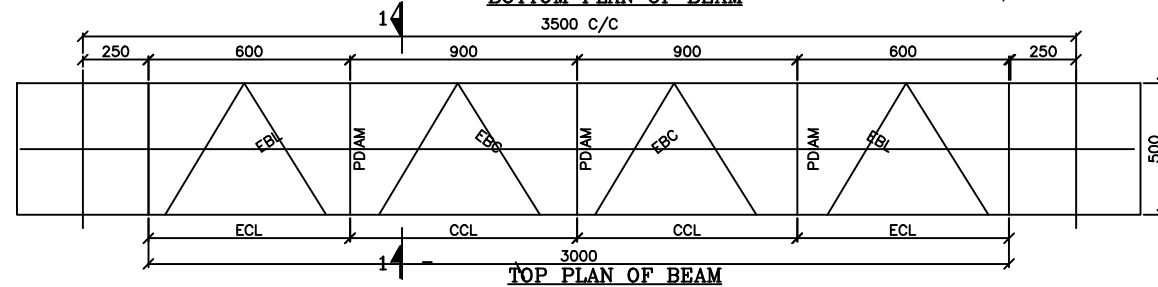
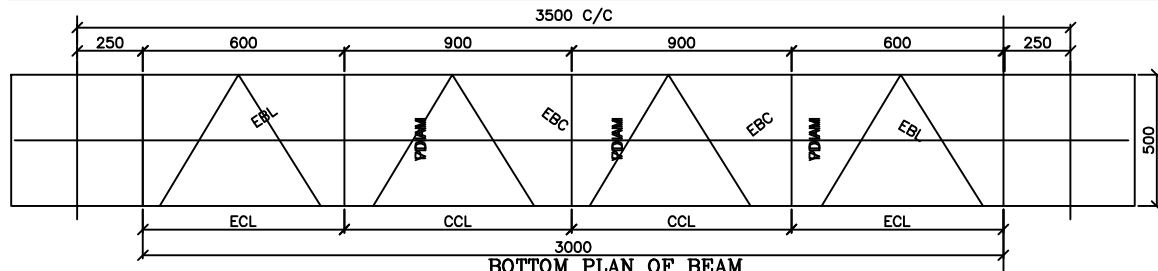
1 OF 1

REV. NO.

0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

BEAM MKD	ANGLE SIZE & NOS OF BOLTS	ECL	CCL	EBL	EBC	VDIAM	PBL	PBC	PDIAM	DIAMOND
G2 (33kV)	ANGLE SIZE	L50X50X6	L50X50X6	L45X45X5	L45X45X5	2L45X45X5 B/B	L45X45X5	L45X45X5	L50X50X6	L45X45X5
	NOS OF BOLTS	2DS-6 TH. PLT	2DS-6 TH. PLT	02	02	02	02	02	02	02




SCALE = 1:25

**NOTES:**  
HIGHLIGHT:-  
SPAN OF GIRDER=5.5M (C/C)  
SPAN OF GIRDER=5.0M (CLEAR)  
CROSS SECTION OF GIRDER=0.5MX0.5M

- 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 0.610kg/m<sup>2</sup> FOR BOLTS & FOR STRUCTURAL MEMBERS.

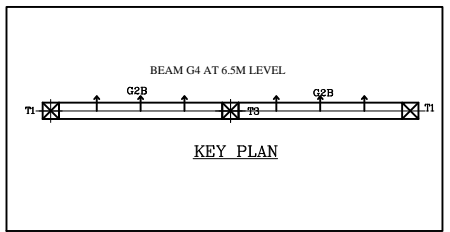
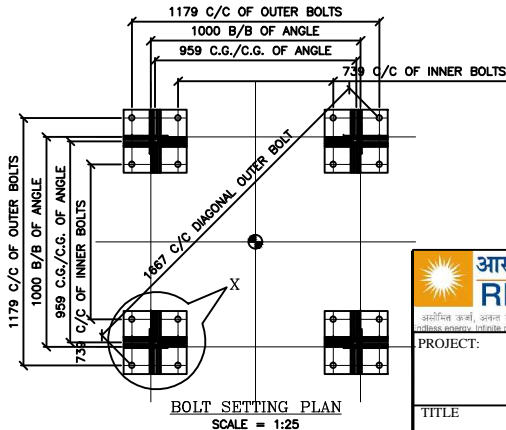
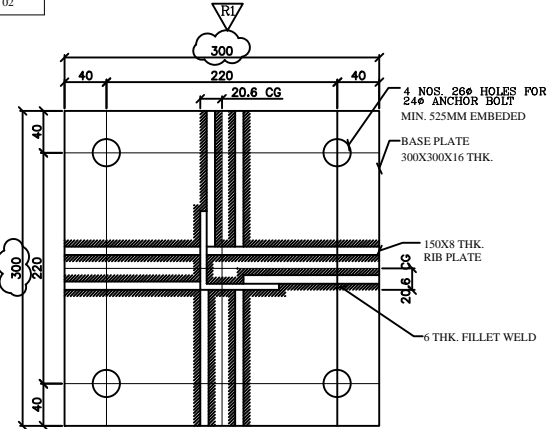
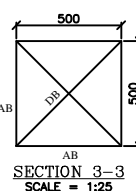
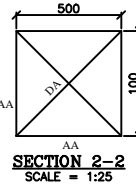
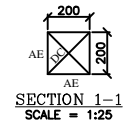
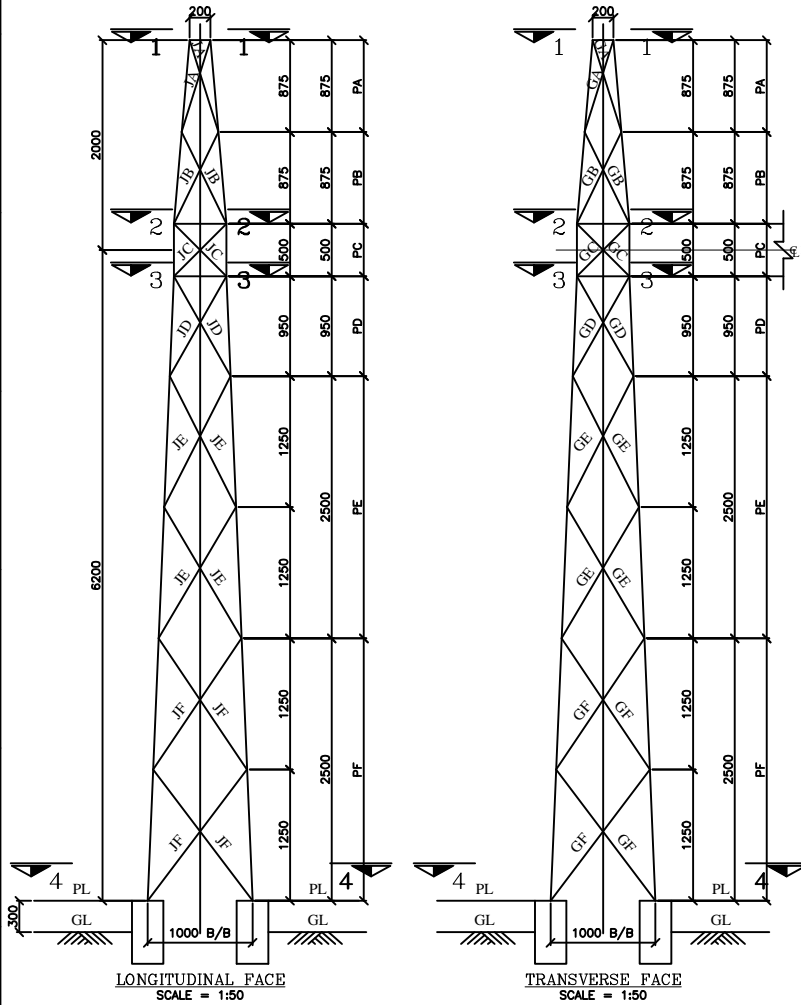
**FOR TENDER PURPOSE ONLY**

		Rural Electrification Corporation Ltd.		
		PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
		TITLE: 11kV BEAM STRUCTURE		
SIZE: A3	SCALE: NTS	DRG. NO: REC/DDUGJY/33/11kV PSS/14B	SHT. NO: 1 OF 1	REV. NO: 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

TOWER MKD	ANGLE SIZE & NOS OF BOLTS	PA	PB	PC	PD	PE	PF	GA	GB	GC	GD	GE	GF
T1	ANGLE SIZE	L50X50X6	L50X50X6	L65X65X6	L65X65X6	L65X65X6	L75X75X6	L45X45X5	L45X45X5	L45X45X5	L45X45X5	L45X45X5	L45X45X5
	NOS OF BOLTS	02	02	3DS-6 TH. PLT	3DS-6 TH. PLT	3DS-6 TH. PLT	3DS-6 TH. PLT	02	02	02	02	02	02

TOWER MKD	ANGLE SIZE & NOS OF BOLTS	JA	JB	JC	JD	JE	JF	AA	AB	AE	DA	DB	DC
T1	ANGLE SIZE	L45X45X5	L45X45X5	L45X45X5	L45X45X5	L45X45X5	L45X45X5	L65X65X6	L65X65X6	L45X45X5	L45X45X5	L45X45X5	L45X45X5
	NOS OF BOLTS	02	02	02	02	02	02	02	02	02	02	02	02



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

**HIGHLIGHT:**  
SPAN OF BEAM=3.5M (C/C)  
HEIGHT OF BEAMS=6.5M  
HEIGHT OF COLUMN=6.5M & 2.0M (PEAK)

- 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 0.610kg/m<sup>2</sup> FOR BOLTS & FOR STRUCTURAL MEMBERS.
  8. COMPATIBLE FOR MOUNTING SPIKE ON PEAK OF TOWER.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

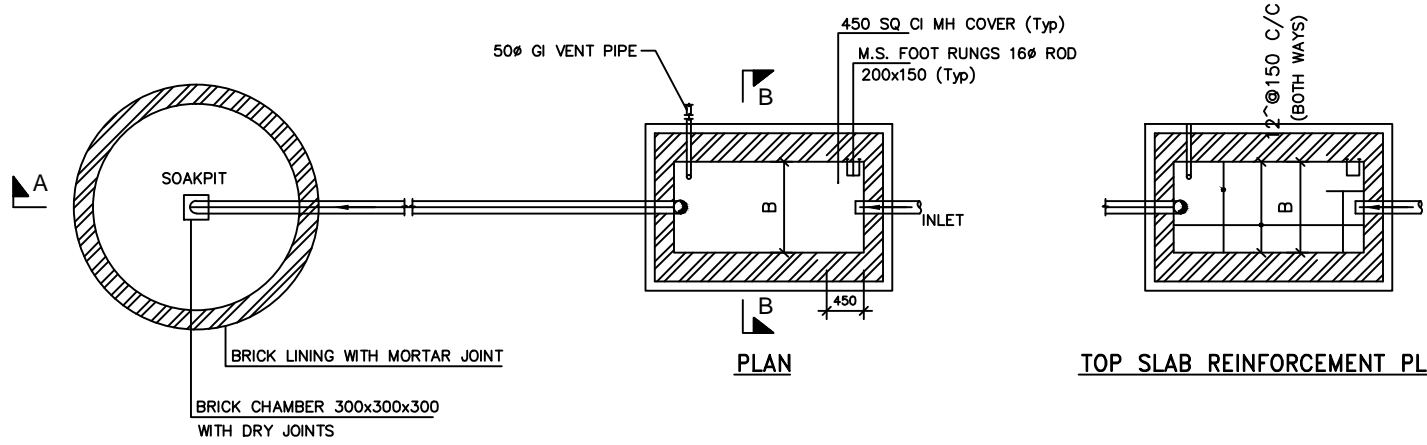
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

33kV TOWER STRUCTURE MARKED "T1"

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/15	1 OF 1	0

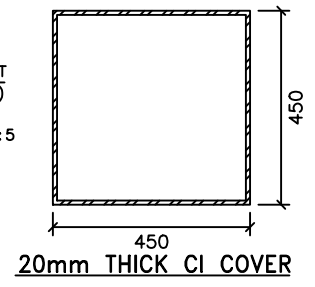
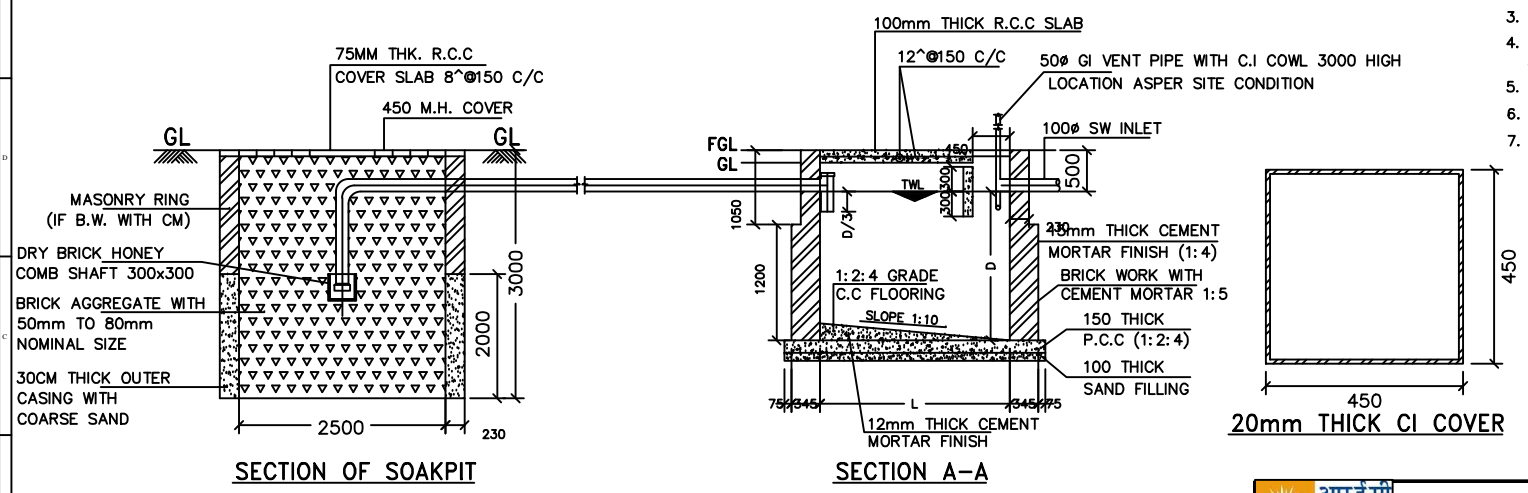


**SCHEDULE OF SEPTIC TANK**


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

**NOTES:**

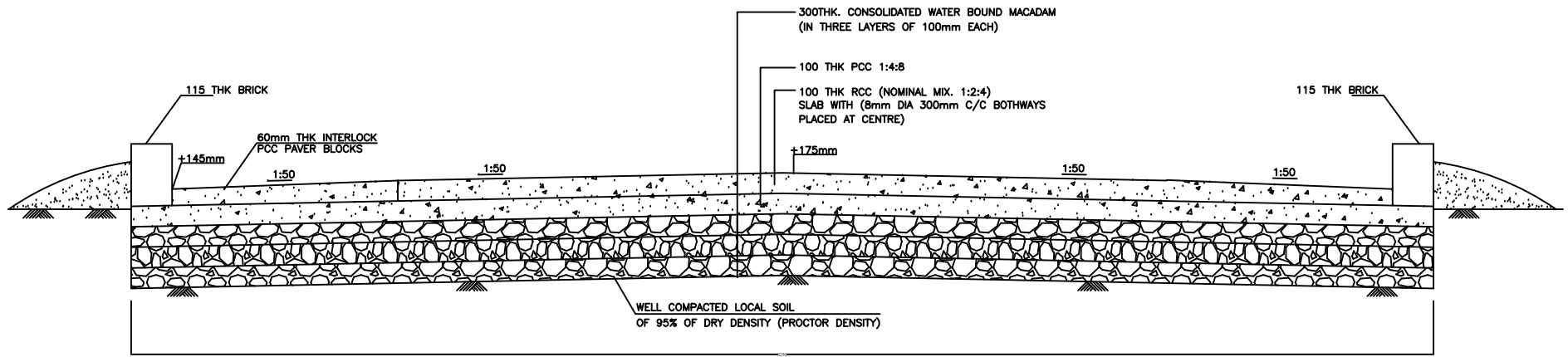
1. ALL DIMENSIONS ARE IN MM. & ELEVATIONS ARE IN METRIC UNLESS OTHERWISE.
2. ALL STRUCTURAL CONC. SHALL BE OF GRADE M-20 CONFORM TO IS 456-2000 U.N.O.
3. ALL REINFORCEMENT FOR STEEL BARS (DENOTED AS ^)
4. UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 50 TIMES THE DIA OF BARS.
5. CLEAR COVER TO MAIN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



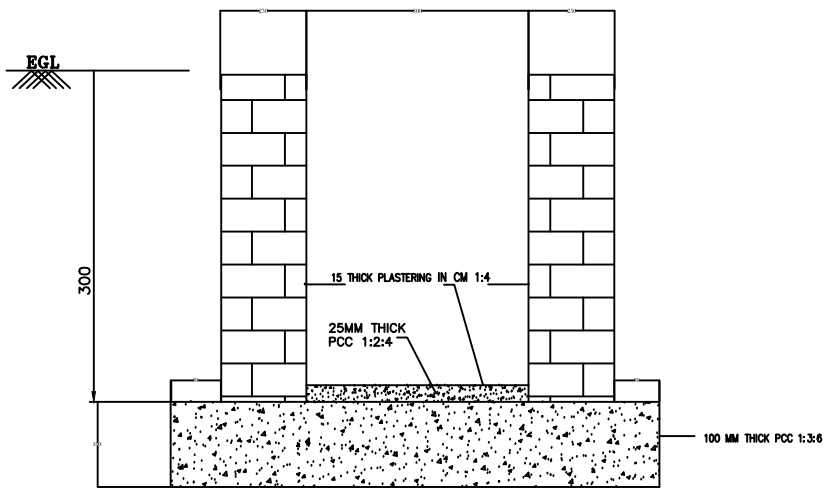
FOR TENDER PURPOSE ONLY

		Rural Electrification Corporation Ltd.		
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
TITLE: SEPTIC TANK & SOAK PIT DETAILS				
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/16	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



**TYPICAL CROSS SECTION OF 3.0M WIDE ROAD**



**CROSS SECTIONAL DETAIL OF OPEN DRAIN**

**NOTES:-**

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

**FOR TENDER PURPOSE ONLY**



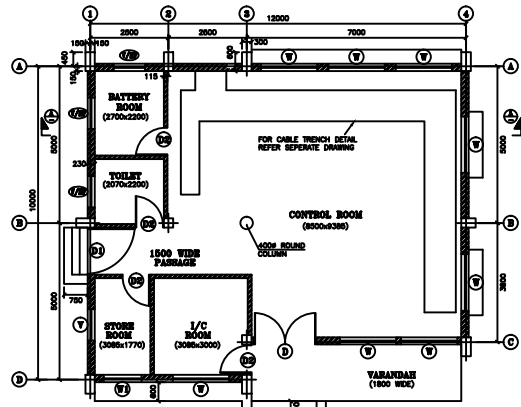
**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

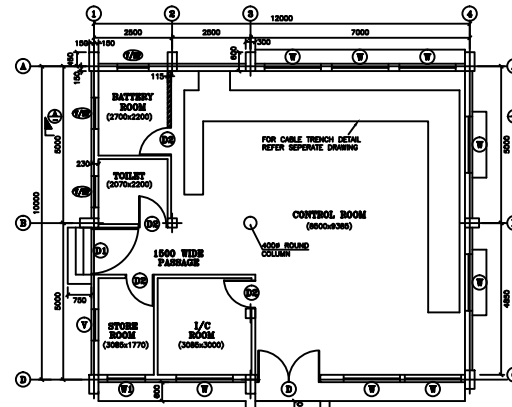
TITLE: **DETAILS OF RCC ROAD AND DRAIN**

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

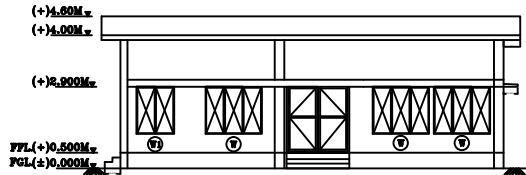
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A3	NTS	REC/DDUGJY/33/11kV PSS/17	1 OF 1	0



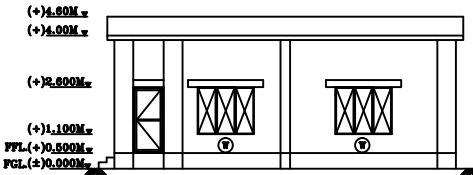
FOR OUTDOOR 11kV VCB PANELS



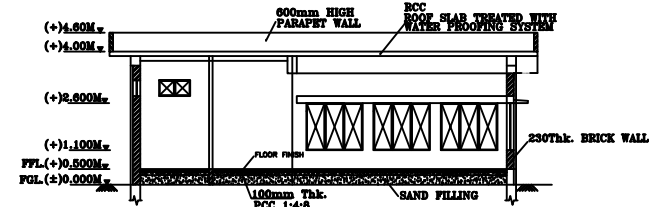
FOR INDOOR 11kV VCB PANELS



FRONT ELEVATION



RIGHT SIDE ELEVATION



SECTION A-A

FINISHING SCHEDULE

BUILDING NAME	SL.NO	AREA DESCRIPTION	DESCRIPTION							
			FLOORING	SKIRTING (150MM HIGH)	DADO	WALLS (INTERNAL)	CEILING	WALLS (EXTERNAL)		
CONTROL ROOM BUILDING	1	CONTROL ROOM	PRECAST TERRAZZO TILES (DSR/02-ITEM No.11.29 A.2 & 11.31.2)			CEMENT PLASTER 15mm thk. CM 1:8				CEMENT PLASTER 18mm THK. WITH TWO COATS. UNDER LAYER 23mm THK. CEMENT PLASTER 1:3 (DSR 13.19) WITH W.P.
	2	BATTERY ROOM	CERAMIC GLAZED TILES (DSR/02-11.74)			OIL BOUND WASHABLE DISTEMPER ON PLASTER OF PARIS PUTTY. (DSR/02-13.40 A & 13.77.2)				
	3	INCHARGE ROOM	ACID & ALKALI RESISTANT TILES (DSR/02-11.36 C.1 & 11.36 C. 1-1)			OIL BOUND DISTEMPER (DSR/02-13.40 A & 13.77)				
	4	STORE ROOM	TERRAZZO TILES (DSR/02-11.29 A.2 & 11.31.20)			WHITE WASH (DSR/02-13.70.1)				
	5	TOILET	REMARKS			ACID RESISTANT PAINT (DSR/02-11.36C.2&11.36C.2&13.96.1)				

SCHEDULE OF DOORS

SL. NO.	NO. REQD.	REF. AS	MASONRY OPENING (WIDTH x HEIGHT)	SWING	MATERIAL
1.	1	①	2000 x 2400	SEE PLAN	FLUSH DOOR SHUTTER DSR/02-8.25.2
2.	1	②	1800 x 2100	SEE PLAN	FLUSH DOOR SHUTTER DSR/02-8.25.2
3.	4	③	800 x 2100	SEE PLAN	FLUSH DOOR SHUTTER DSR/02-8.25.2

SCHEDULE OF WINDOWS

SL. NO.	NO. REQD.	REF. AS	MASONRY OPENING (WIDTH x HEIGHT)	MATERIAL
1.	8	④	1800 x 1900	STANDARD STEEL ROLLED SECTION FRAMES WITH 2mm THK. GLASS
2.	1	⑤	1900 x 1900	STANDARD STEEL ROLLED SECTION FRAMES WITH 2mm THK. GLASS
3.	4	⑥	1000 x 800	STANDARD STEEL ROLLED SECTION

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

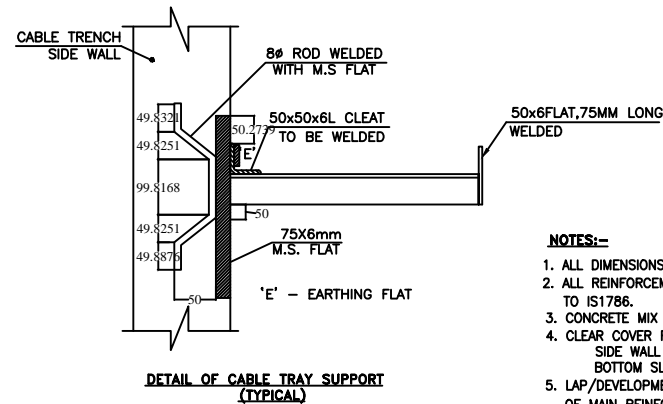
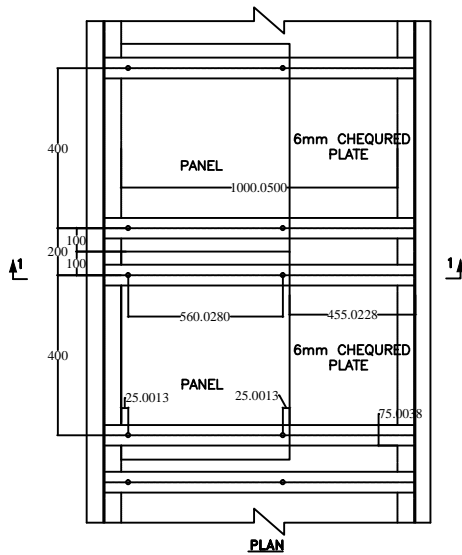
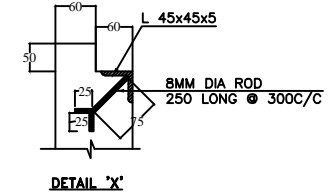
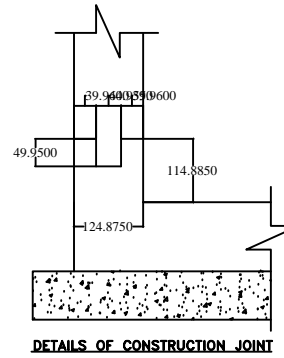
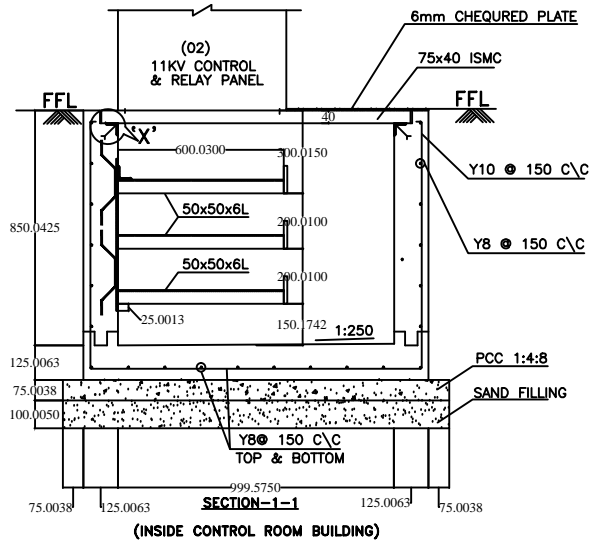
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

G.A. OF CONTROL BUILDING

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
  2. ALL REINFORCEMENT SHALL BE OF GRADE Fe415 CONFORMING TO IS1786.
  3. CONCRETE MIX SHALL BE M20
  4. CLEAR COVER FOR REINFORCEMENT  
SIDE WALL = 25mm  
BOTTOM SLAB ON EARTH FACE = 40mm & ON OTHER FACE = 30mm
  5. LAP/DEVELOPMENT LENGTH SHALL BE 40 TIMES THE DIA. OF MAIN REINFORCEMENT.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

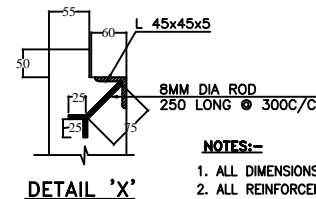
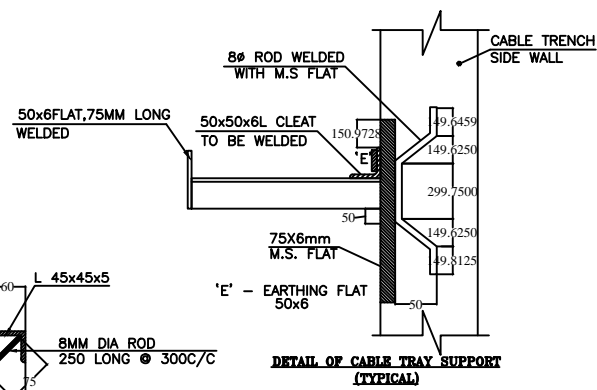
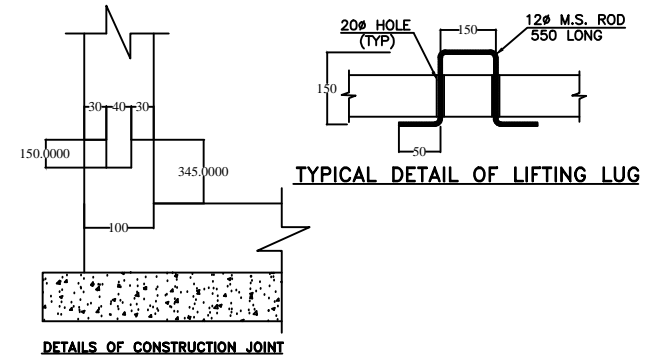
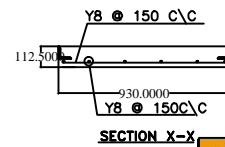
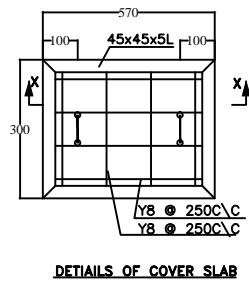
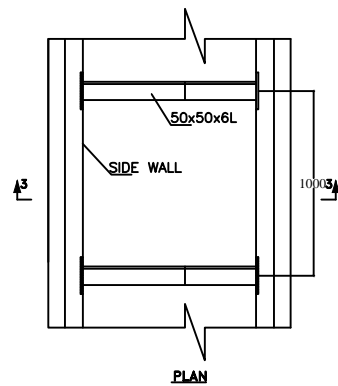
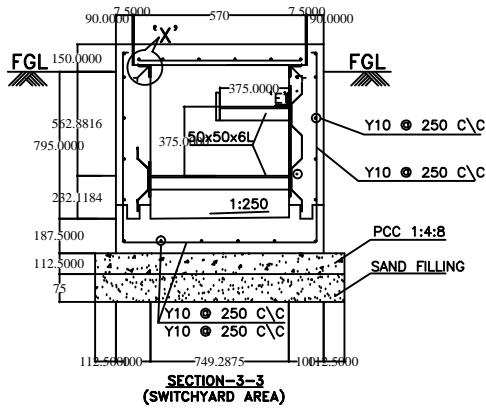
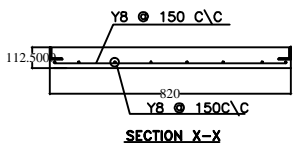
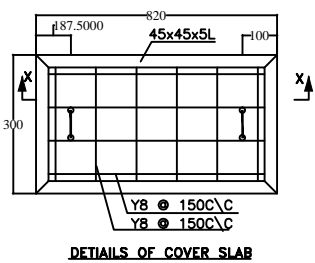
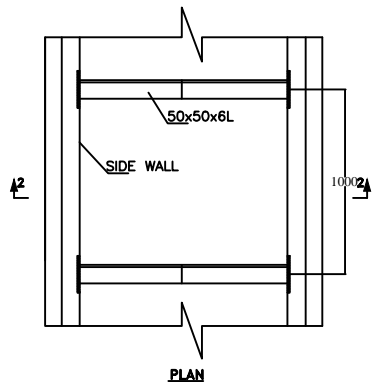
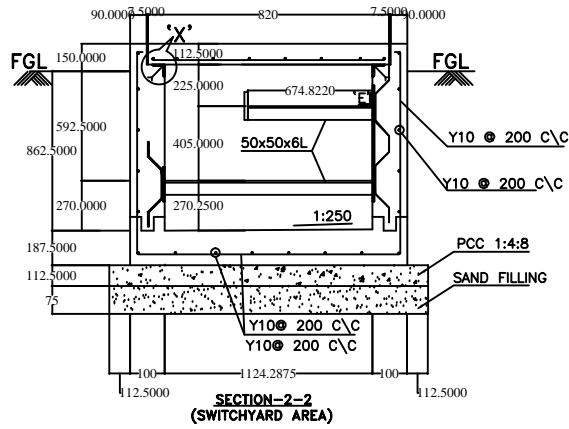
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

DETAILS OF CABLE TRENCHES  
(INSIDE CONTROL ROOM)

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





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

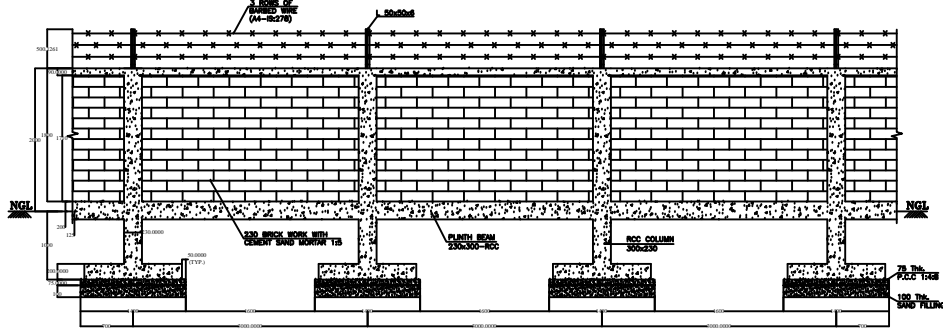
FOR TENDER PURPOSE ONLY



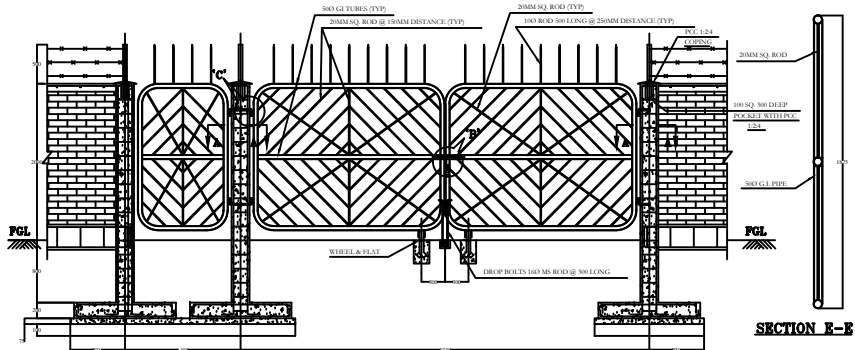
Rural Electrification Corporation Ltd.

PROJECT:		Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
TITLE		DETAILS OF CABLE TRENCHES (SWITCHYARD AREA)		
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/19B	1 OF 1	0

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

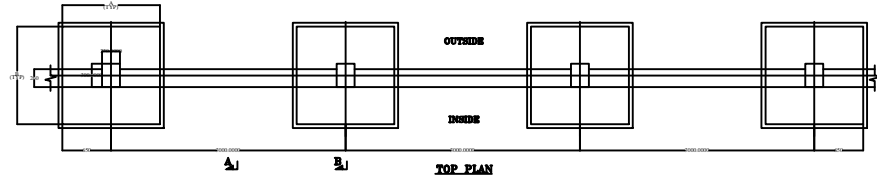


ELEVATION

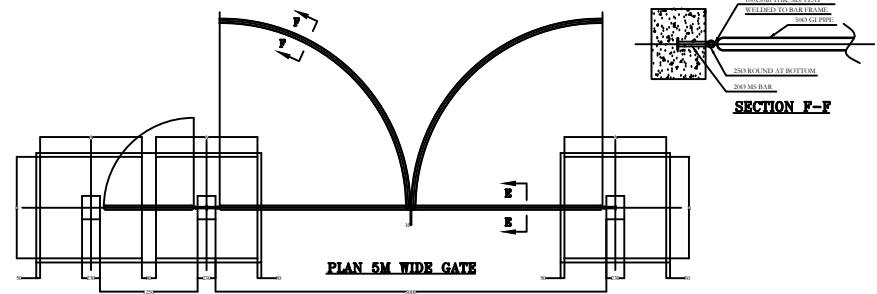


ELEVATION

SECTION E-E

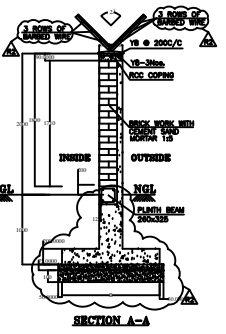


TOP PLAN

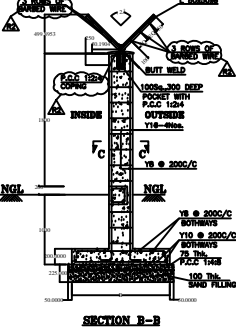


PLAN 5M WIDE GATE

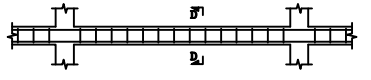
SECTION F-F



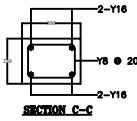
SECTION A-A



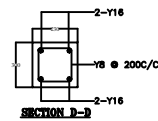
SECTION B-B



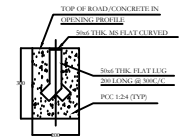
REINFORCEMENT DETAIL OF PLINTH BEAM



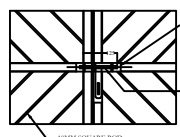
SECTION C-C



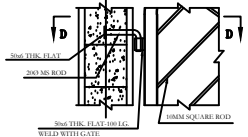
SECTION D-D



SECTION F-F



DETAIL AT - B



DETAIL AT - C

**NOTES:-**

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. RCC SHALL BE M20 GRADE.
3. REINFORCEMENT STEEL SHALL BE HYSD BAR AS PER IS.
4. CLEAR COVER
  - i) FOR COLUMN - 40mm
  - ii) FOR PLINTH BEAM - 25mm
  - iii) FOR FOUNDATION - 50mm
5. CEMENT MORTAR SHALL BE USED 1:5 FOR MASONARY WORK.
6. PLASTERING SHALL BE 12mm Thk. INSIDE & 18mm Thk. OUTSIDE WITH CEMENT MORTAR 1:6
7. EXPANSION JOINT SHALL BE PROVIDED AT EVERY 15M.
8. WALL SHALL BE PAINTED WITH MINIMUM TWO COATS OF COLOUR WASH OVER A BASE COAT OF WHITE WASH WITH LINE.
9. THE STEEL WORK SHALL BE GIVEN TWO COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE OVER ONE COAT OF PRIMER.
10. THE GATE FRAME SHALL BE MADE OF MEDIUM DUTY M.S. PIPE CONFIRMING TO IS: 1161 WITH WELDED JOINTS.
11. THE GATE FRAMES SHALL BE PAINTED WITH ONE COAT OF STEEL PRIMER AND TWO COAT OF SYNTHETIC ENAMEL PAINT.
12. ALL WELDED JOINTS SHALL BE CONFIRMING TO IS:813.

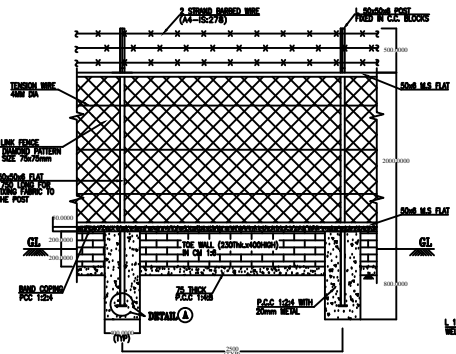
FOR TENDER PURPOSE ONLY


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

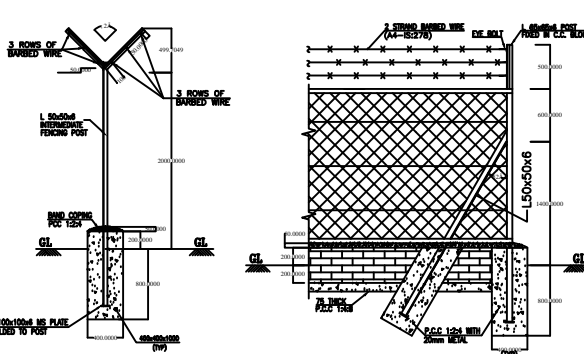
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: DETAIL OF BOUNDARY WALL FOR SWITCHYARD WITH ENTRRANCE GATE

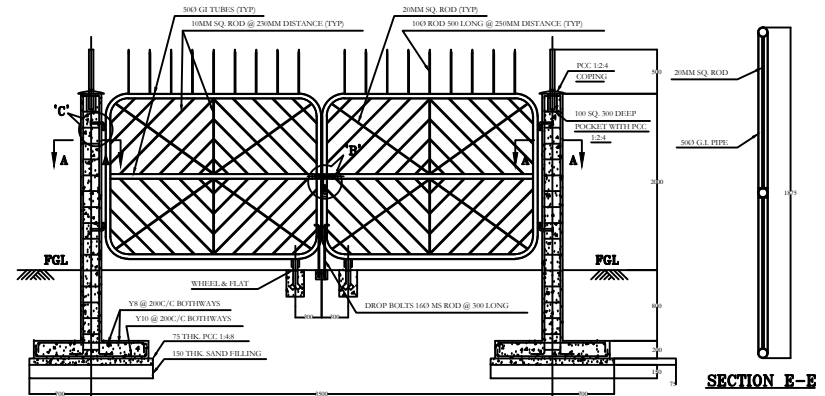
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/33/11kV PSS/20A	SHT. NO. 1 OF 1	REV. NO. 0
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**PART ELEVATION**  
**DETAIL OF INTERMEDIATE POST**

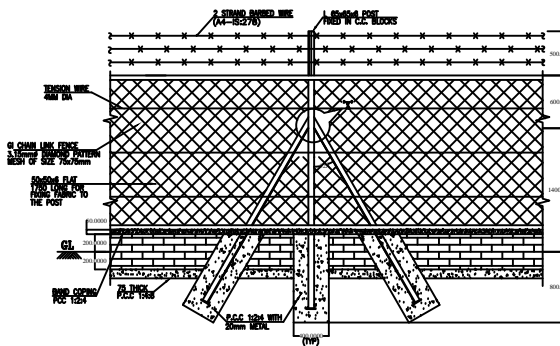


**END/CORNER POST**

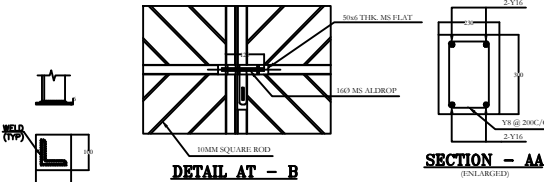


**ELEVATION**

**SECTION E-E**

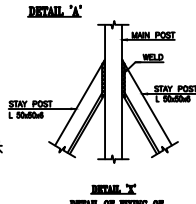


**DETAIL OF STRAIN POST**  
**(AT EVERY 25M INTERVAL)**

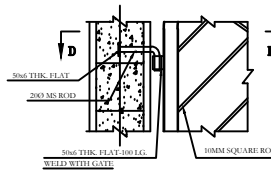


**DETAIL AT - B**

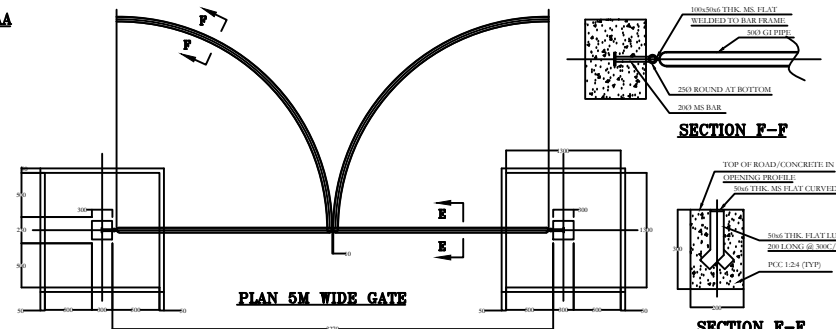
**SECTION - AA**  
**(FINISH OF FLOOR)**



**DETAIL 'A'**



**DETAIL AT - C**



**PLAN 5M WIDE GATE**

**SECTION F-F**

**SECTION F-F**

**NOTES:-**

1. ALL STRUCTURAL STEEL SHALL BE CONFORM TO IS:2062 AND SHALL BE PAINTED WITH A COAT OF STEEL PRIMER AND TWO COATS OF SYNTHETIC ENAMEL PAINT.
2. CHAIN LINK MESH SHALL BE AS PER IS:2721. 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 IS:278 AND SHALL BE GALVANIZED.
4. FABRIC SHALL BE SECURED TO TENSION WIRES (THREE Nos. SPACED AT 500MM) WITH TIE WIRES AT 400MM INTERVAL. THE TENSION WIRE SHALL BE SINGLE STRAND, HIGH TENSILE, GALVANIZED STEEL WIRE AND 4mm DIAMETER. THE TIE WIRE WIRES SHALL BE GIVEN NOT LESS THAN TWO TWISTS.
5. L 50x50x6 SHALL BE USED FOR INTERMEDIATE AND STAY POSTS. L 65x65x6 SHALL BE USED FOR STRAINING POST.
6. INTERMEDIATE POSTS SHALL BE SPACED 2.5m APART MEASURED PARALLEL TO GROUND SURFACE. STRAINING POSTS SHALL BE INSTALLED AT EQUAL INTERVALS NOT EXCEEDING 25m.
7. BOTTOM AND TOP OF THE FENCE FABRIC SHALL BE FIXED WITH 50x6 M.S FLAT. FENCE FABRIC SHALL BE LAID OUT WITH BARBED EDGE ON TOP, STRETCHED TIGHTLY AND SHALL BE FASTENED TO INTERMEDIATE POST, GATE AND STRAINING POST WITH 50x6 M.S FLAT ALL THROUGH ITS LENGTH.
8. ALL EXPOSED SURFACE OF BRICK TOE WALL SHALL BE PROVIDED WITH 12 Th. 1:6 CM PLASTER AND COATED WITH TWO COATS OF COLOUR 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 CONFIRMING 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 CONFIRMING TO IS:813.

**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

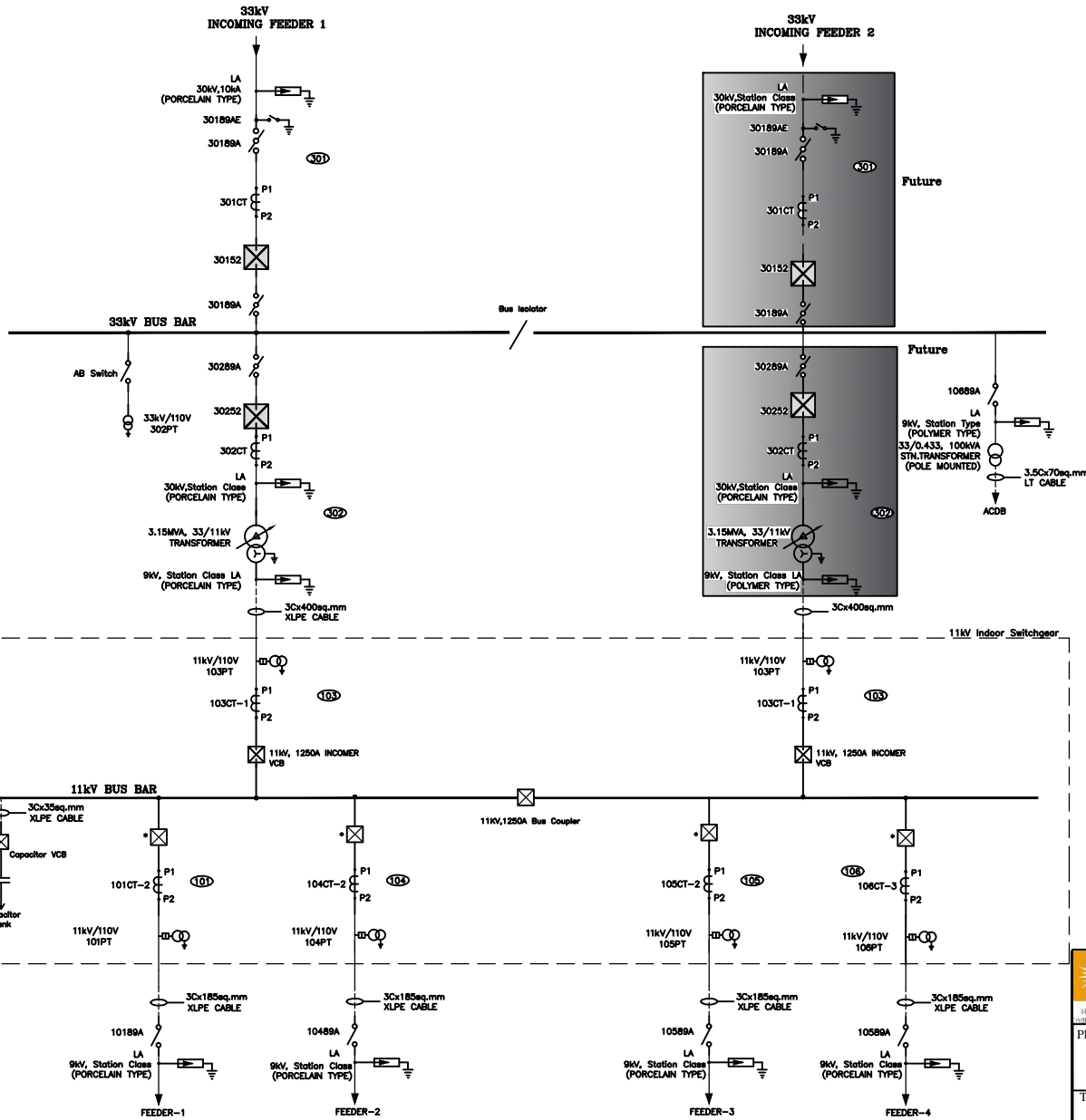
TITLE

DETAIL OF FENCING FOR SWITCHYARD WITH GATE ARRANGEMENT

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					





**BILL OF QUANTITY - 33kV**

SIL. NO.	ITEM DESCRIPTION	SYMBOL	QTY
1.	3.15MVA, 33/11kV TRANSFORMER		1 NO.
2.	36kV, 1250A, O/D VACUUM CIRCUIT BREAKER		2 SETS.
3(a).	36kV, DBCR ISO WITH EARTH SWITCH		1 SET
3(b).	36kV, DBCR ISO WITHOUT EARTH SWITCH		3 SETS.
4.	CT RATIO 200-100/1A		6 NOS.
5.	33kV/110V, POTENTIAL TRANSFORMER		3 NOS.
6.	30kV, Station Class SURGE ARRESTER (PORCELAIN TYPE)		3 SETS.
7.	33kV/D.433kV, 100kVA, STATION TRANSFORMER		1 NO.

**BILL OF QUANTITY - 11kV**

SIL. NO.	ITEM DESCRIPTION	SYMBOL	QTY
1(a).	11kV, 1250A INCOMER VCB & Bus Coupler		3 SETS.
1(b).	11kV, 1250A OUTGOING VCB		4 SETS.
2.	9kV, Station Class SURGE ARRESTER (Porcelain Type)		4 SETS.
3.	12kV, 200A, TILTED TYPE GANG OPERATED ISO		4 SETS.
4.	11kV/110V, POTENTIAL TRANSFORMER		18 NOS.
5.	CAPACITOR BANK VCB		1 SETS.

- LEGEND:-**
- 11kV, 1250A OUTGOING VCB.
  - CT-1 300-150/5-5A
  - CT-2 200-100/5-5A
  - CT-3 100-50/5-5A

This SLD is indicative. PIA/Utilities may suitable adopt a ckt. as per site requirement

FOR TENDER PURPOSE ONLY



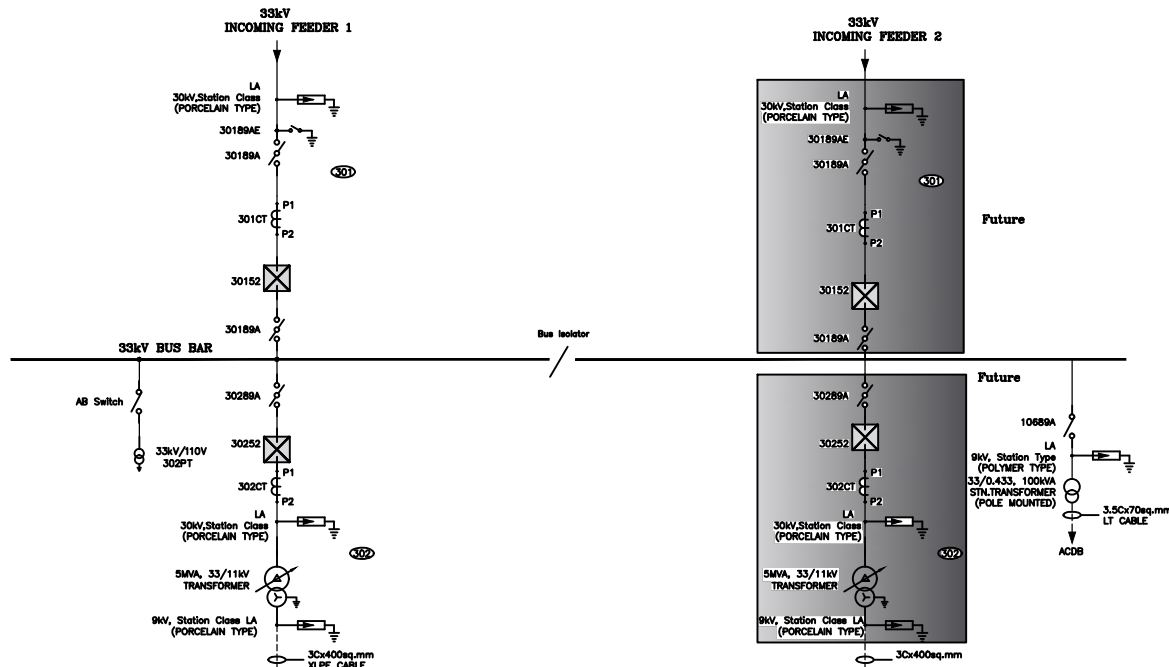
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: Single Line Diagram of 1x3.15MVA (Type-A) 33/11kV Substation with Indoor 11kV Switchgear

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

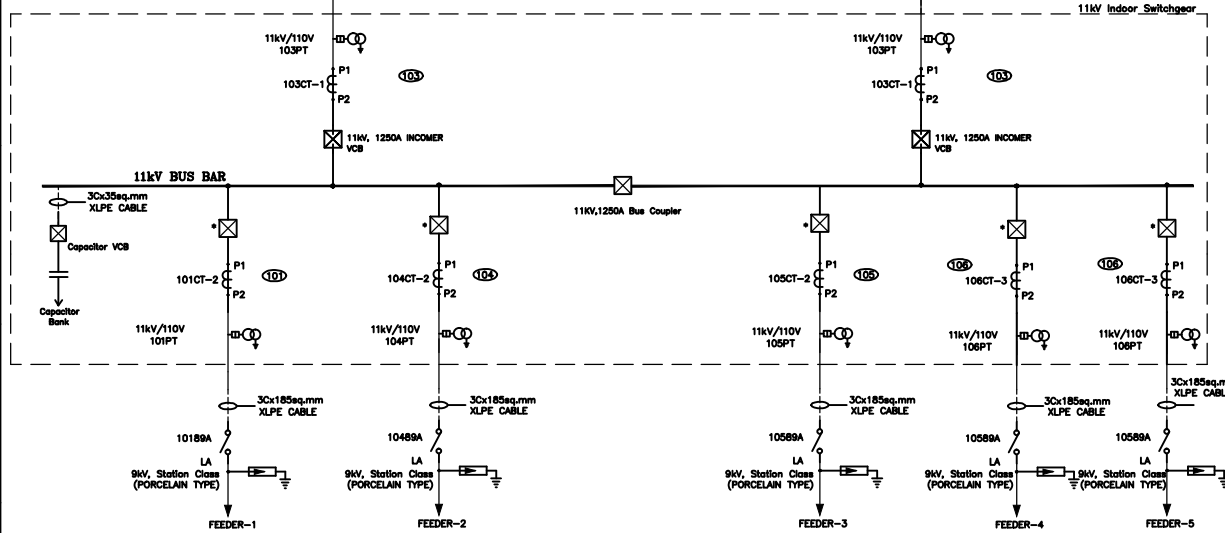


**BILL OF QUANTITY - 33kV**

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1.	5MVA, 33/11kV TRANSFORMER		1 NO.
2.	36kV, 1250A, O/D VACUUM CIRCUIT BREAKER		2 SETS.
3(a).	36kV, DBOR ISO WITH EARTH SWITCH		1 SET
3(b).	36kV, DBOR ISO WITHOUT EARTH SWITCH		3 SETS.
4.	CT RATIO 200-100/1A		6 NOS.
5.	33kV/110V, POTENTIAL TRANSFORMER		3 NOS.
6.	30kV, Station Class SURGE ARRESTER (Porcelain Type)		3 SETS.
7.	33kV/0.433kV, 100kVA, STATION TRANSFORMER		1 NO.

**BILL OF QUANTITY - 11kV**

Sl. No.	ITEM DESCRIPTION	SYMBOL	QTY
1(a).	11kV, 1250A INCOMER VCB & Bus Coupler		3 SETS.
1(b).	11kV, 1250A OUTGOING VCB		5 SETS.
2.	9kV, Station Class SURGE ARRESTER (Porcelain Type)		5 SETS.
3.	12kV, 200A, TILTED TYPE GANG OPERATED ISO		5 SETS.
4.	11kV/110V, POTENTIAL TRANSFORMER		21 NOS.
5.	CAPACITOR BANK VCB		1 SETS.



**LEGEND:-**

- 11kV, 1250A OUTGOING VCB.
- CT-1 300-150/5-5A
- CT-2 200-100/5-5A
- CT-3 100-50/5-5A

This SLD is indicative. PIA/Utilities may suitable adopt a ckt. as per site requirement

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

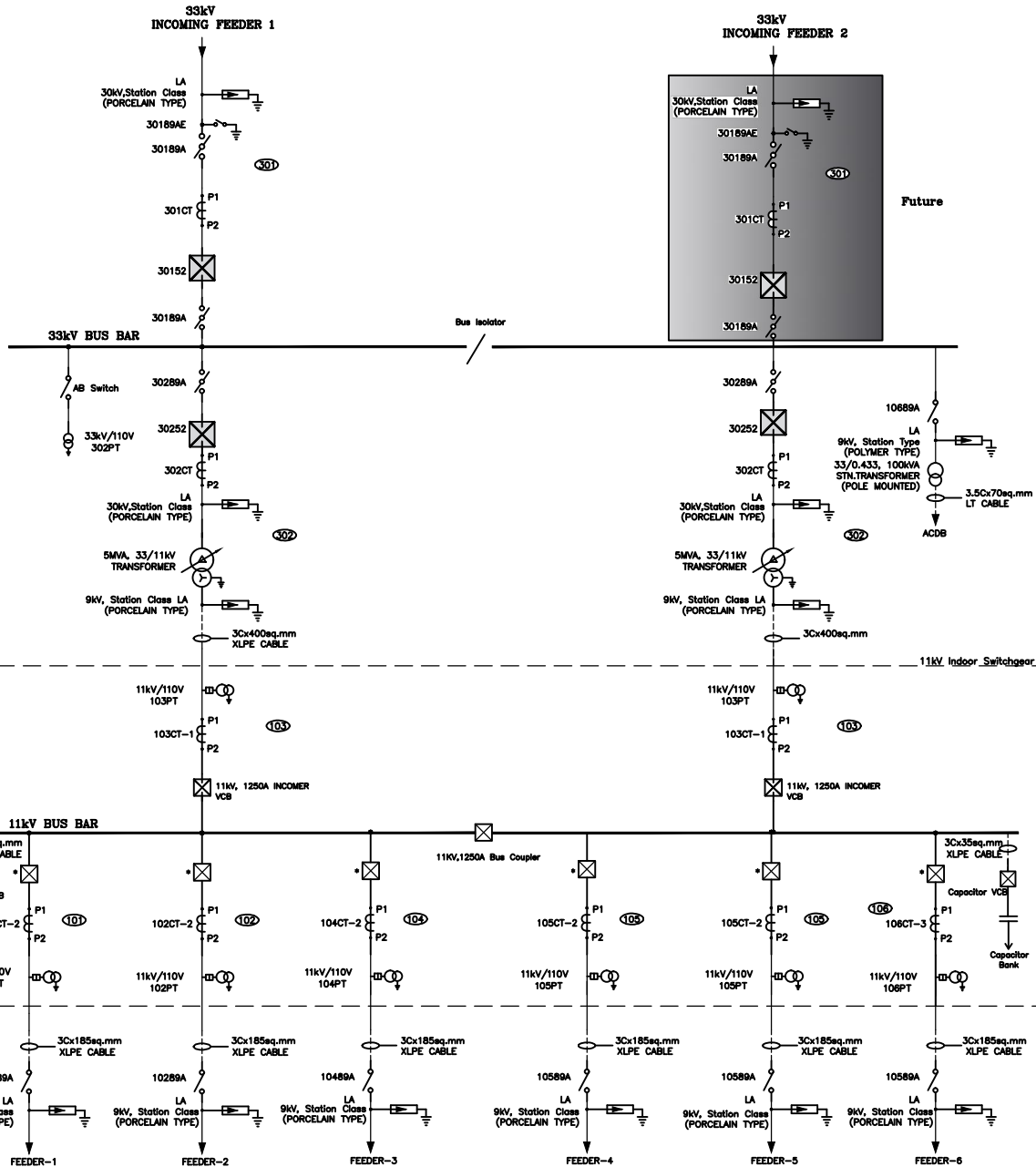
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





BILL OF QUANTITY - 33kV			
SIL. NO.	ITEM DESCRIPTION	SYMBOL	QTY
1.	5MVA, 33/11kV TRANSFORMER		2 NO.
2.	36kV, 1250A, O/D VACUUM CIRCUIT BREAKER		3 SETS.
3(a).	36kV, DBCR ISO WITH EARTH SWITCH		1 SET
3(b).	36kV, DBCR ISO WITHOUT EARTH SWITCH		4 SETS.
4.	CT RATIO 200-100/1A		9 NOS.
5.	33kV/110V, POTENTIAL TRANSFORMER		3 NOS.
6.	30kV, Station Class SURGE ARRESTER (Porcelain Type)		4 SETS.
7.	33kV/0.433kV, 100kVA, STATION TRANSFORMER		1 NO.

BILL OF QUANTITY - 11kV			
SIL. NO.	ITEM DESCRIPTION	SYMBOL	QTY
1(a).	11kV, 1250A INCOMER VCB & Bus Coupler		3 SETS.
1(b).	11kV, 1250A OUTGOING VCB		6 SETS.
2.	9kV, Station Class SURGE ARRESTER (Porcelain Type)		8 SETS.
3.	12kV, 200A, TILTED TYPE GANG OPERATED ISO		6 SETS.
4.	11kV/110V, POTENTIAL TRANSFORMER		24 NOS.
5.	CAPACITOR BANK VCB		2 SETS.

**LEGEND:-**

- \* 11kV, 1250A OUTGOING VCB.
- CT-1 300-150/5-5A
- CT-2 200-100/5-5A
- CT-3 100-50/5-5A

This SLD is Indicative. PIA/Utilities may suitable adopt a ckt. as per site requirement

FOR TENDER PURPOSE ONLY

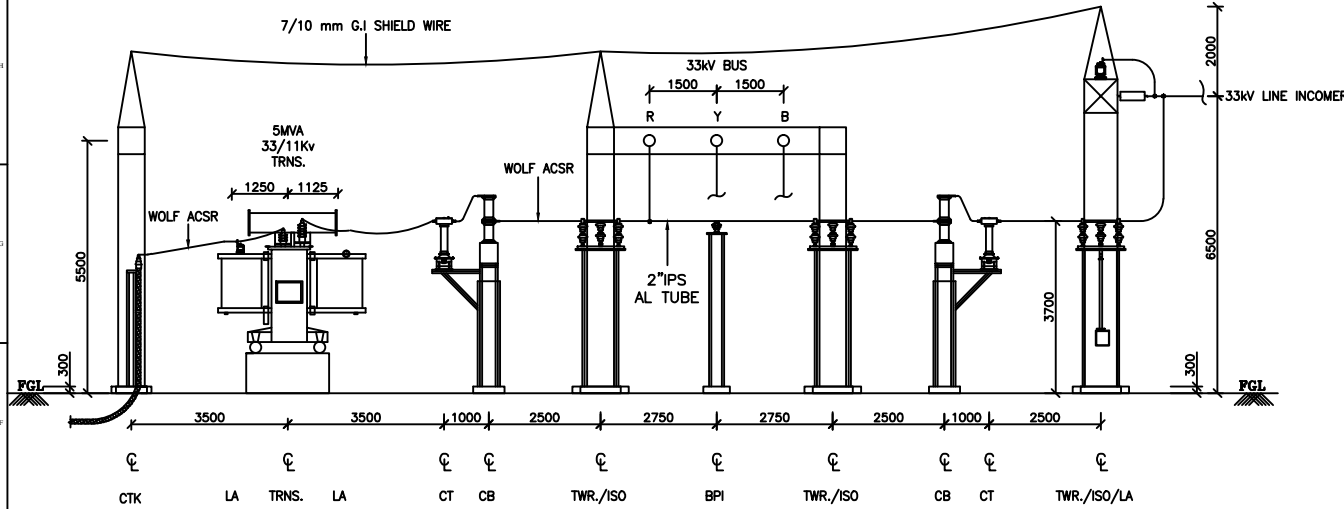
**REC**  
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

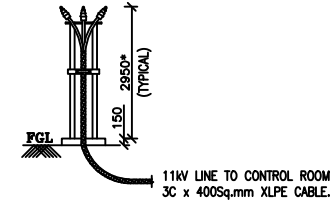
TITLE: Single Line Diagram of 2x5MVA (Type-C) 33/11kV Substation with Indoor 11kV Switchgear

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

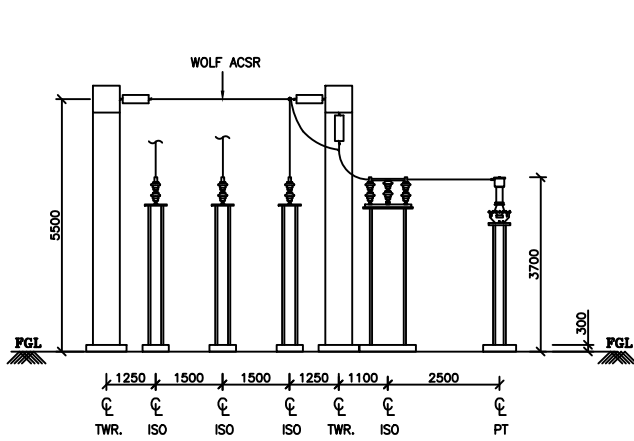
R0	SIZE
REV. NO.	A3
PREPARED	PROJECT
CHECKED	
APPROVED	
DATE	



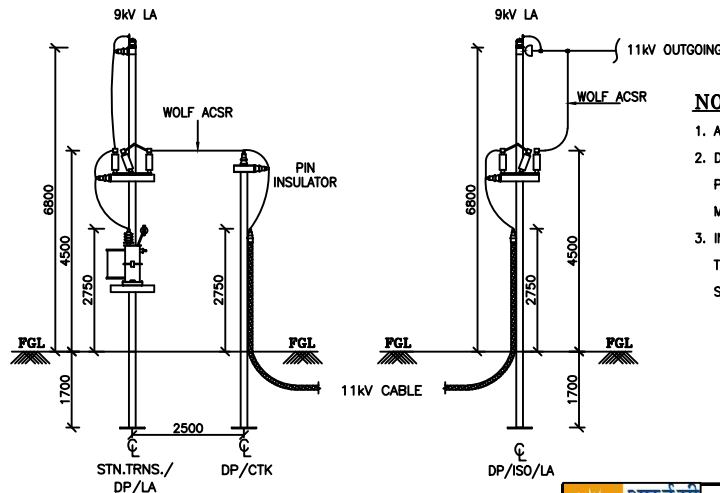
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**SECTION E-E**

**NOTES:-**

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS MARKED \* THUS AS 2950mm(CABLE SEALING) IS PROVISIONAL. ACTUAL DIMENSIONS SHALL BE DECIDED AT SITE TO MAINTAIN THE ABOVE DIMENSIONS AS MINIMUM.
3. IN 5MVA TRANSFORMER BAY, 30kV LA AND 9kV LA ARE INDICATED ON TRANSFORMER TANK. THE TRANSFORMER SUPPLIER SHALL PROVIDE SUITABLE BRACKETS FIXED TO TRANSFORMER TANK.

**REFERENCE:-**

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

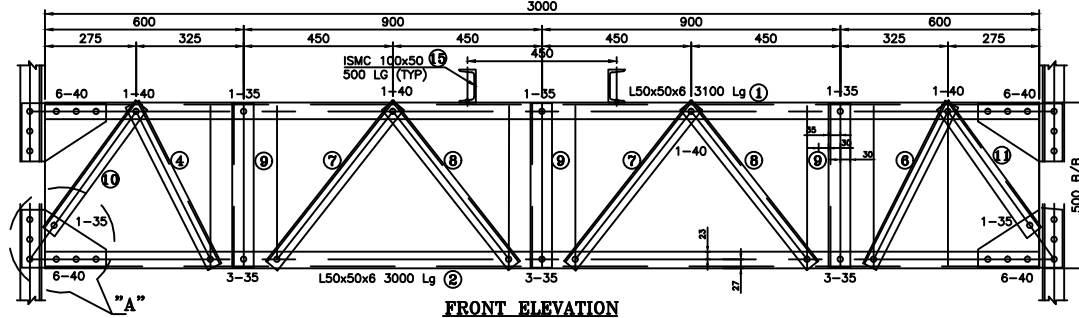
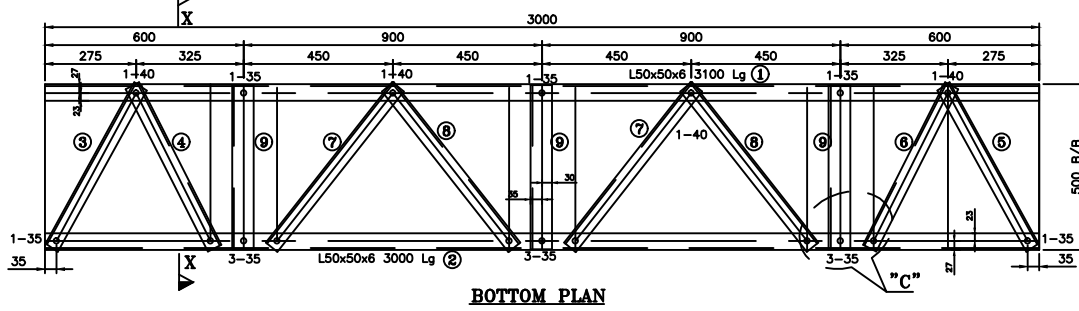
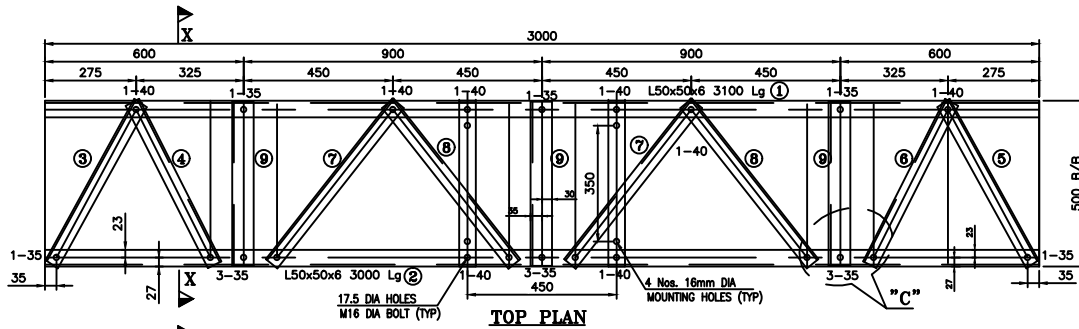
TITLE

Layout Section of 33/11 KV Substation

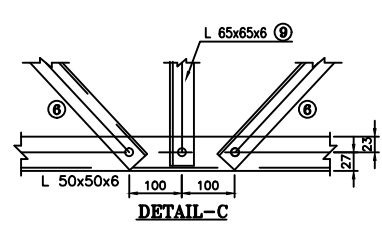
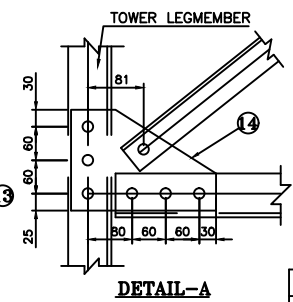
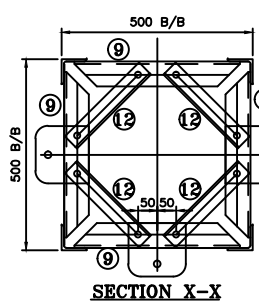
R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





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




BILL OF MATERIAL								
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg		
1	L 50x50x6Thk	2	3000	-	4.50	27.00		
2	L 50x50x6Thk	2	3000	-	4.50	27.00		
3	L 45x45x5Thk	2	556	-	3.40	3.78		
4	L 45x45x5Thk	4	549	-	3.40	7.47		
5	L 45x45x5Thk	2	556	-	3.40	3.78		
6	L 45x45x5Thk	4	549	-	3.40	7.47		
7	L 45x45x5Thk	8	617	-	3.40	16.78		
8	L 45x45x5Thk	8	617	-	3.40	16.78		
9	L 65x65x6Thk	12	496	-	5.80	34.52		
10	L 45x45x5Thk	2	473	-	3.40	3.22		
11	L 45x45x5Thk	2	473	-	3.40	3.22		
12	L 45x45x5Thk	12	204	-	3.40	8.32		
13	STRAIN PLT. 8 THK	9	140	150	62.80	11.87		
14	GPLT. 8 THK	8	255	175	62.80	22.42		
15	ISMC 100x50	2	500	-	9.56	9.56		
<b>TOTAL WEIGHT</b>						<b>203.19</b>		
<b>BOLTS &amp; NUTS</b>								
M16x35LG. BOLTS & NUTS						60	0.124	7.440
M16x40LG. BOLTS & NUTS						72	0.132	9.504
16#x3.5THK.SPRING WASHERS						135	0.009	1.215
<b>TOTAL WEIGHT OF BOLTS &amp; NUTS</b>						<b>18.159</b>		

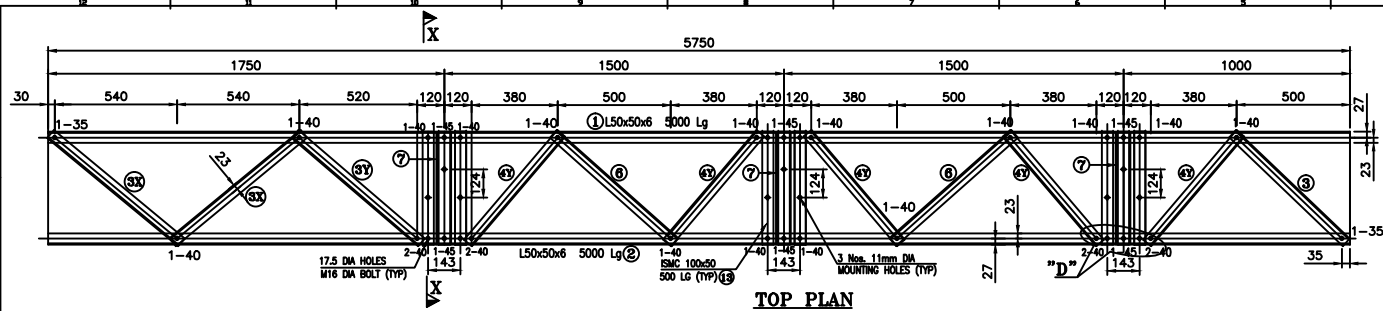
<b>WEIGHT OF STRUCTURAL STEEL</b>	<b>: 205.75</b>
<b>WEIGHT OF BOLT/NUTS</b>	<b>: 18.159</b>
<b>TOTAL WEIGHT OF STRUCTURAL STEEL</b>	<b>: 223.909</b>

MARK NO:15 REQUIRED ONLY FOR = 2 Nos.

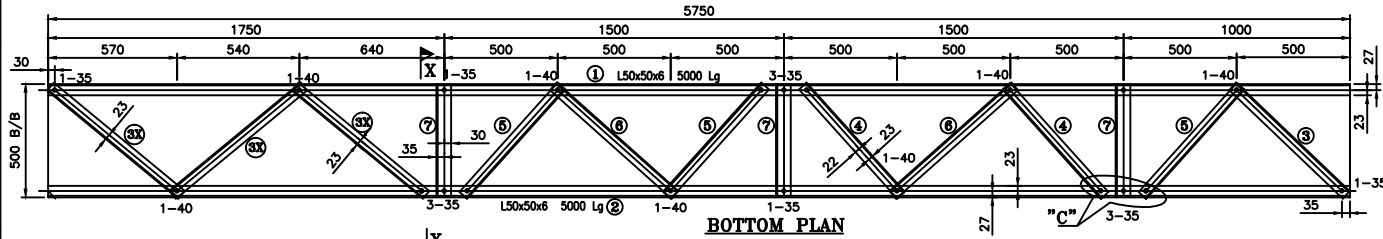
- NOTES:-**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
  - BOLT SYMBOLS 16# O = 17.5# HOLES
  - ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "G3".
  - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
  - ALL CONNECTION BOLTS SHALL BE OF 16mm  $\phi$  CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1367 (PART-6).
  - MILD STEEL SHALL CONFORM TO GRADE A(FE410) OF IS:2062
  - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
  - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
  - UNNOTED GUSSETS ARE 6mm THICK
  - PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.
  - ALL NUTS SHALL CONFORM TO IS: 12427
  - GALVANISING SHALL CONFORM TO IS: 2629-1985 & IS:4759-1996.
  - BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY.
  - FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

FOR TENDER PURPOSE ONLY

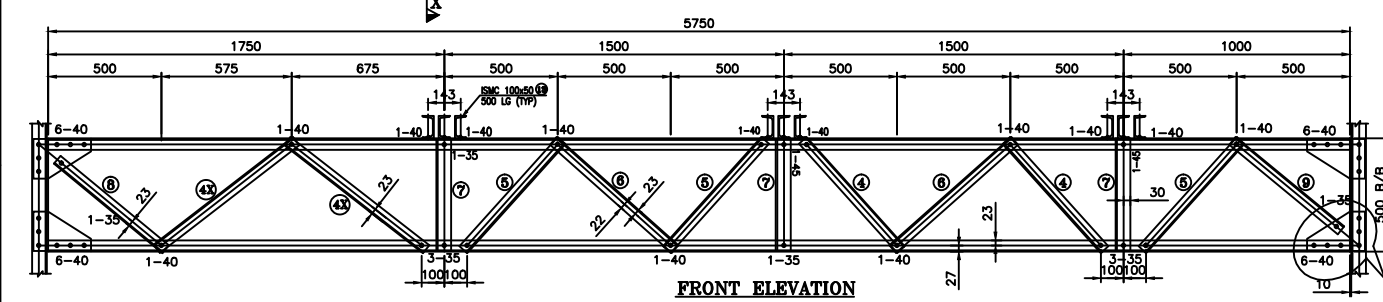
		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE</b> DETAILS OF GIRDER TYPE "G3"			
SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/33/11kV PSS/24	SHT. NO. 1 OF 1
REV. NO. R0	PREPARED _____	CHECKED _____	APPROVED _____
DATE _____	PROJECT _____	REV. NO. 0	_____



TOP PLAN



BOTTOM PLAN



FRONT ELEVATION

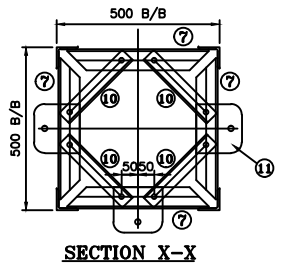
BILL OF MATERIAL						
MARK NO	SECTION	QTY.	LENGTH mm	WIDTH mm	UNIT WT. Kg/m	TOTAL WT IN Kg
1	L 50x50x6Thk	2	5750	-	4.50	51.75
2	L 50x50x6Thk	2	5750	-	4.50	51.75
3	L 45x45x5Thk	2	694	-	3.40	4.72
3X	L 45x45x5Thk	5	751	-	3.40	12.77
3Y	L 45x45x5Thk	1	735	-	3.40	2.50
4	L 45x45x5Thk	6	649	-	3.40	13.24
4X	L 45x45x5Thk	4	778	-	3.40	10.58
4Y	L 45x45x5Thk	5	636	-	3.40	10.81
5	L 45x45x5Thk	9	649	-	3.40	19.86
6	L 45x45x5Thk	8	720	-	3.40	19.58
7	L 65x65x6Thk	12	496	-	5.80	34.52
8	L 45x45x5Thk	2	621	-	3.40	4.22
9	L 45x45x5Thk	2	621	-	3.40	4.22
10	L 45x45x5Thk	12	275	-	3.40	11.22
11	STRAIN PLT. 8 THK	9	140	150	62.80	11.87
12	GPLT. 8 THK	8	255	175	62.80	22.42
13	ISMC 100x50	9	500	-	9.56	43.02
<b>TOTAL WEIGHT</b>						<b>329.06</b>
BOLTS & NUTS						
M16x3ELG. BOLTS & NUTS	55				0.124	6.82
M16x4ELG. BOLTS & NUTS	97				0.132	12.80
M16x4ELG. BOLTS & NUTS	8				0.139	1.11
16x3.5THK SPRING WASHERS	160				0.009	1.44
<b>TOTAL WEIGHT OF BOLTS &amp; NUTS</b>						<b>22.18</b>

NOTES

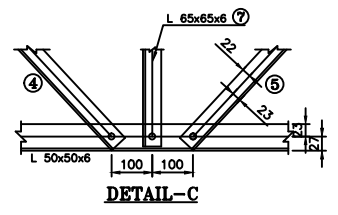
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2. BOLT SYMBOLS 16 $\phi$   $\circ$  = 17.5 $\phi$  HOLES
3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "G1".
4. 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
5. ALL CONNECTION BOLTS SHALL BE OF 16mm  $\phi$  CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1367 (PART-6).
6. MILD STEEL SHALL CONFORM TO GRADE A OF IS:2062
7. MINIMUM EDGE SECURITY FOR 16 $\phi$  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: 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.

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

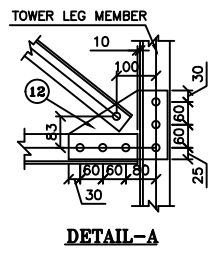
WEIGHT OF STRUCTURAL STEEL	: 329.06
WEIGHT OF BOLTS/NUTS	: 22.18
TOTAL WEIGHT OF STRUCTURAL STEEL	: 351.51
TOTAL QUANTITY REQUIRED = 1 Nos.	



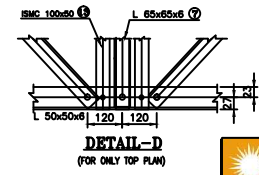
SECTION X-X



DETAIL-C



DETAIL-A



DETAIL-D (FOR ONLY TOP PLAN)

FOR TENDER PURPOSE ONLY

**Rural Electrification Corporation Ltd.**

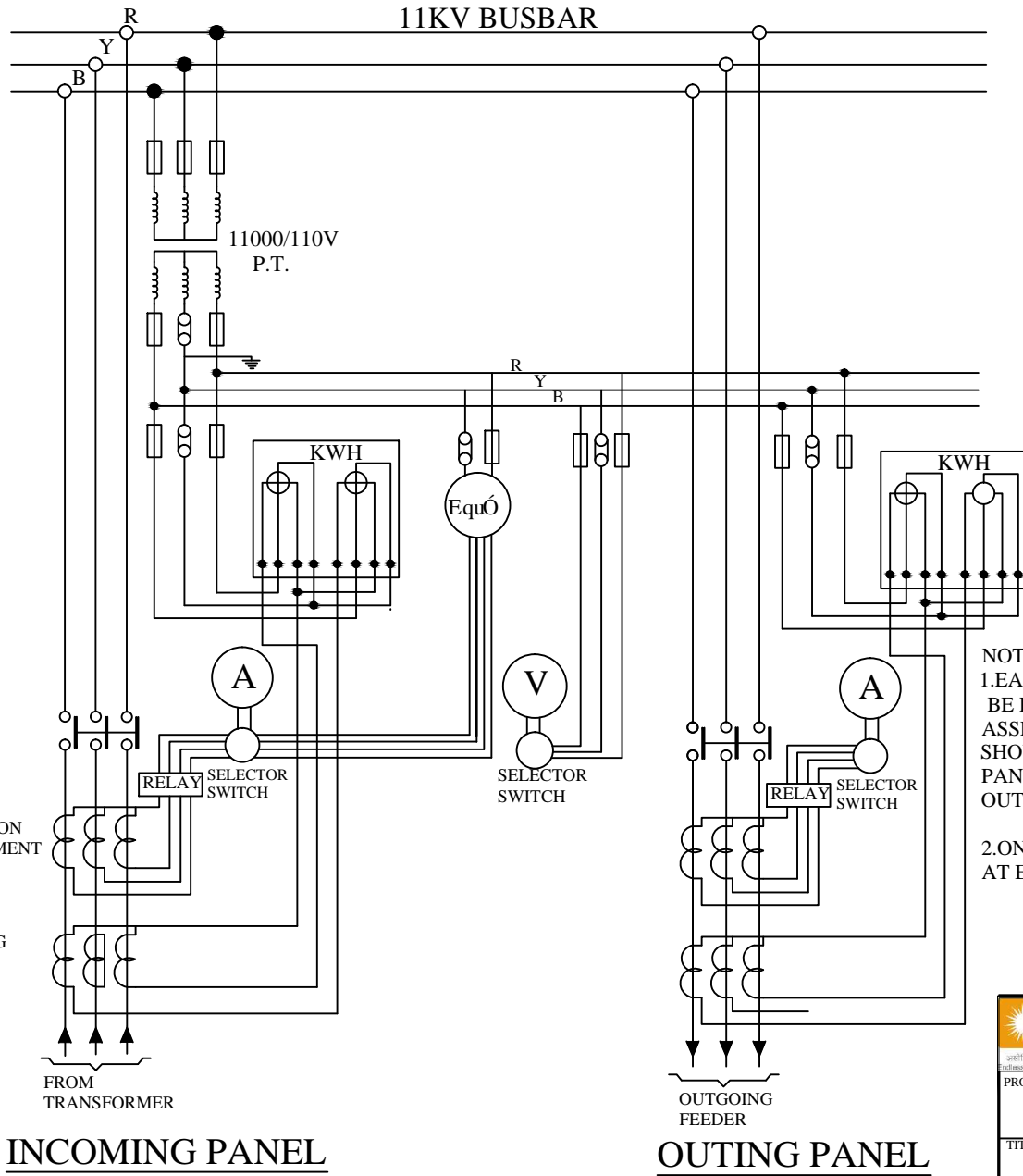
**PROJECT:**  
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

**TITLE**  
DETAILS OF GIRDER TYPE "G1"

SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/33/11kV PSS/25	SHT. NO. 1 OF 1	REV. NO. 0
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R0	REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
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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

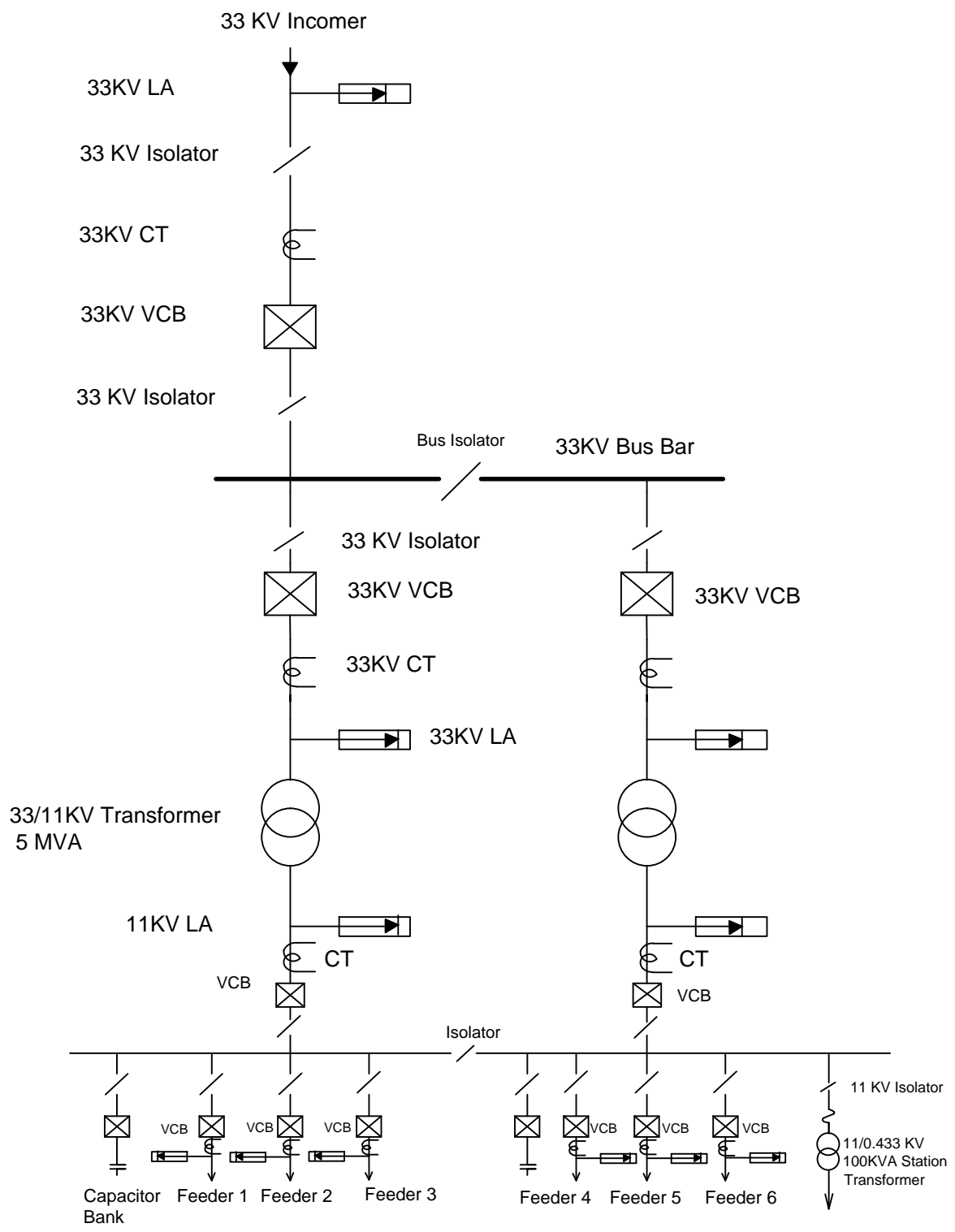

**आर ई सी**  
**REC**  
 Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)


TITLE: 33-11kV Sub-Stn. Metering Arrangement.

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

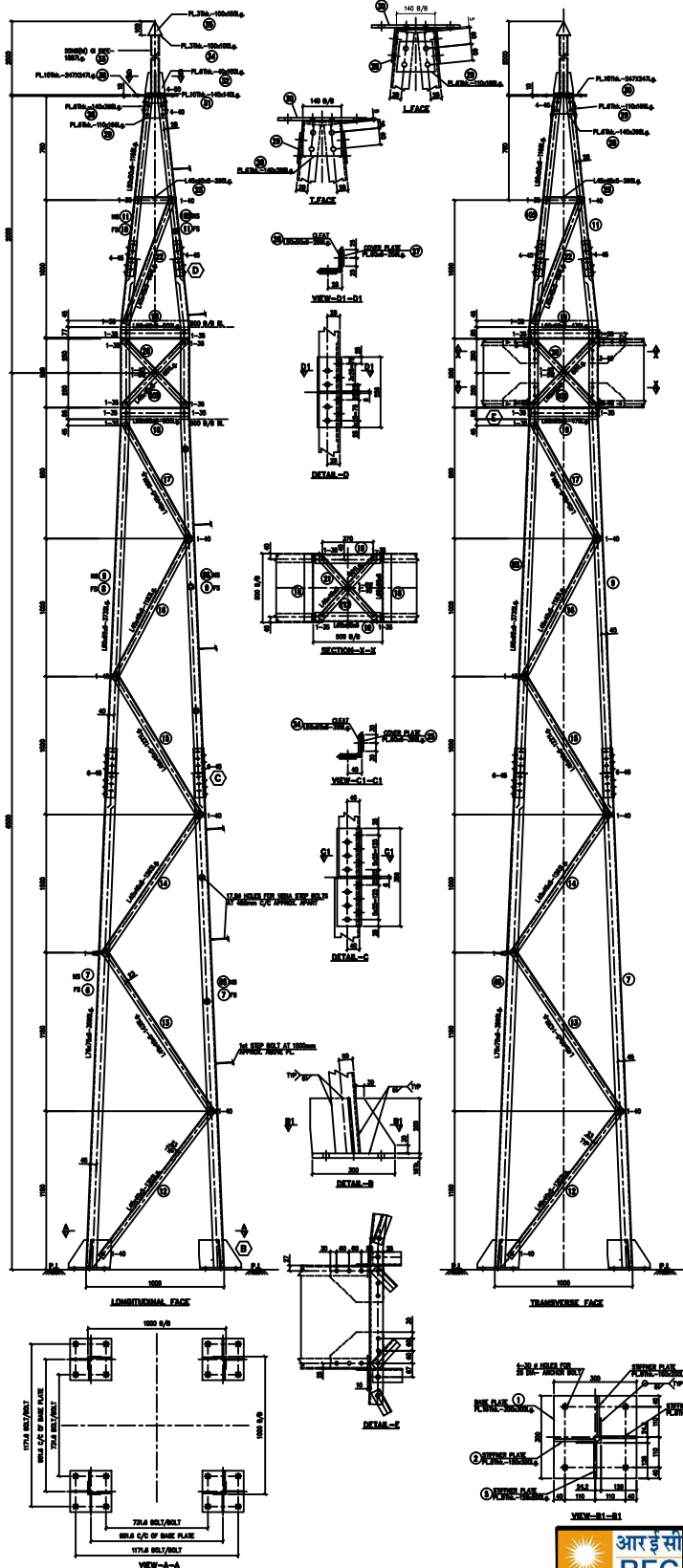
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/27	1 OF 1	0



**FOR TENDER PURPOSE ONLY**

 <p>आर ई सी Rural Electrification Corporation Ltd.</p>	<p><b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)</p>			
	<p><b>TITLE:</b> Typical SLD of 33/11KV PSS with 2 Transformer and One Incoming Line</p>			
<p>SIZE <b>A3</b></p>	<p>SCALE <b>NTS</b></p>	<p>DRG. NO. <b>REC/DDUGJY/33/11kv PSS/28</b></p>	<p>SHT. NO. <b>1 OF 1</b></p>	<p>REV. NO. <b>0</b></p>

RO					
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	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
10s	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
27	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	-
M16x175mm Lg. STEP BOLTS	13	0.41	5.33
M16x5Thk. PACK WASHER	6	0.028	0.168
M16x6Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	202	0.009	1.818
TOTAL			28.85

- NOTES**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
  2. BOLT SYMBOLS 100 Φ = 17.56 HOLES
  3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T1".
  4. 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
  5. ALL CONNECTION BOLTS SHALL BE OF 16mm Ø CONFORMING TO IS 12427 OF PROPERTY CLASS 5.8 CONFORMING TO IS 1347 (PART-1).
  6. MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS2002
  7. MINIMUM EDGE SECURITY FOR 16Ø BOLT SHALL BE 25mm FROM CUT EDGE
  8. ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BW
  9. UNNOTED GUSSETS ARE 6mm THICK
  10. PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3002.
  11. ALL NUTS SHALL CONFORM TO IS 12427
  12. GALVANIZING SHALL CONFORM TO IS: 2009-1985 & IS:4759-1995.
  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

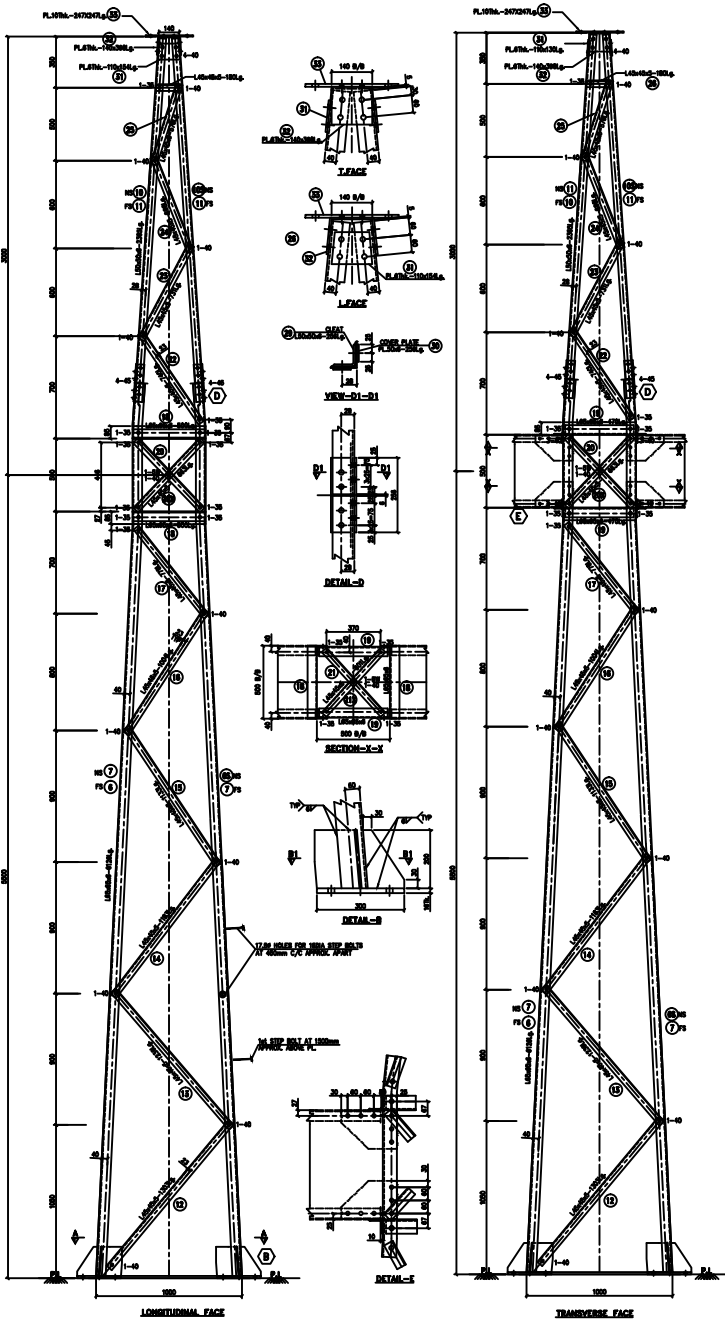
**आर ई सी REC** Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: STRUCTURAL DETAILS OF TOWER TYPE - "T1"

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
RO						A3	NTS	REC/DDUGJY/33/11kV PSS/29	1 OF 1	0

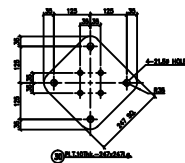
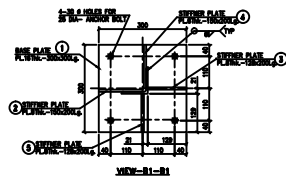
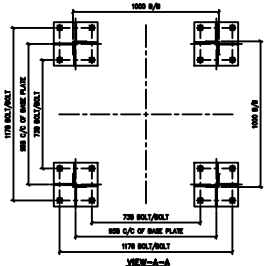




BILL OF MATERIAL						
Erection Mark	Section	Length Size(In. MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total Weight Kg
1	16MM PLATE	300x300	4	125.6	11.30	45.22
2	8MM PLATE	150x200	4	62.8	1.88	7.54
3	8MM PLATE	128x200	4	62.8	1.61	6.43
4	8MM PLATE	150x200	4	62.8	1.88	7.54
5	8MM PLATE	128x200	4	62.8	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	L65x65x6	DELETED				
8S	L65x65x6	DELETED				
9	L65x65x6	DELETED				
10	L65x65x6	2365	1	5.8	13.72	13.72
10a	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# 4# = 17.5# HOLES
  3. ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T2"
  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 5.8 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 GUSSETS ARE 6mm THICK
  10. PLAIN WASHERS SHALL BE AS PER IS 2016 & SPRING WASHER SHALL BE AS PER IS 3003.
  11. ALL NUTS SHALL CONFORM TO IS: 12427
  12. GALVANIZING SHALL CONFORM TO IS: 2829-1985 & IS:4759-1998.
  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.



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**



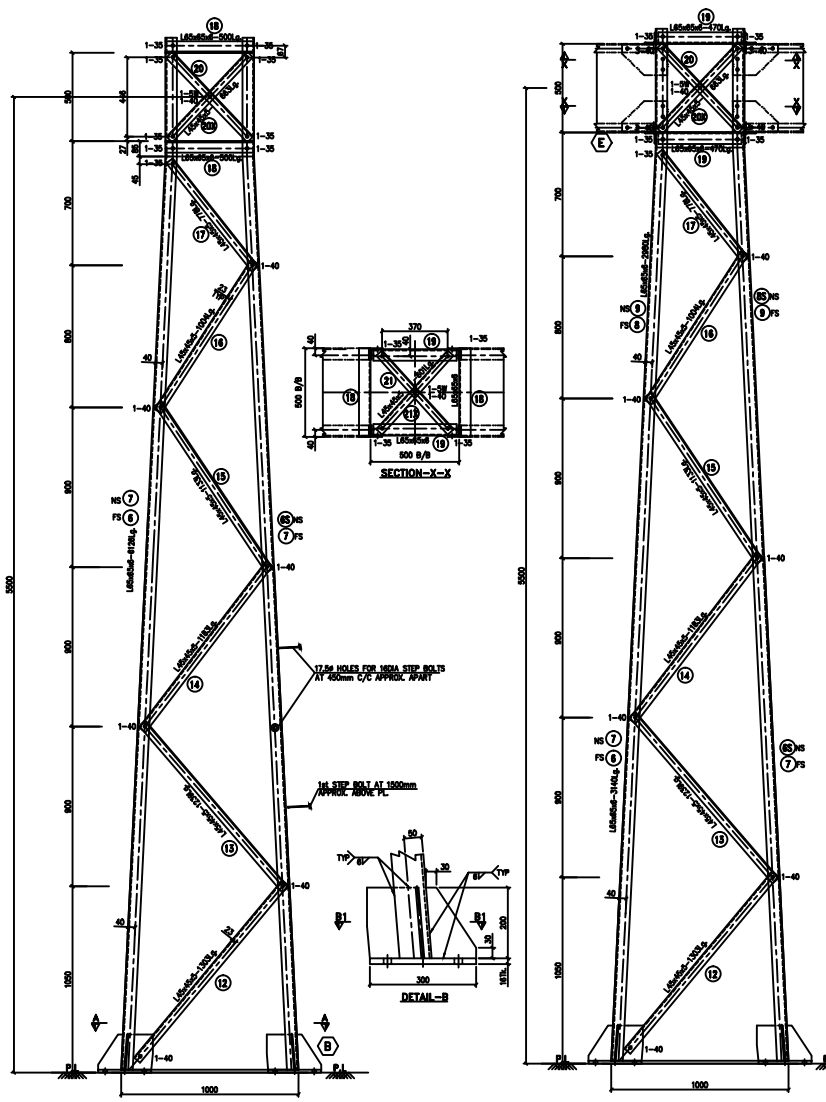
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: STRUCTURAL DETAILS OF TOWER TYPE - "T2"

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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



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

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	36	0.114	4.104
M16x40mm Lg. BOLTS & NUTS	54	0.124	6.70
M16x45mm Lg. BOLTS & NUTS	-	0.132	-
M16x50mm Lg. BOLTS & NUTS	-	0.136	-
M16x55mm Lg. BOLTS & NUTS	-	0.144	-
M16x175mm Lg. STEP BOLTS	11	0.41	4.51
M16x5Thk. PACK WASHER	6	0.028	0.0168
M16x6Thk. PACK WASHER	-	0.034	-
M16x8Thk. PACK WASHER	-	0.045	-
M16x12Thk. PACK WASHER	-	0.068	-
M16x3.5Thk. SPRING WASHER	138	0.009	1.24
TOTAL			16.57

- NOTES**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
  - BOLT SYMBOLS 16# -# = 17.5# HOLES
  - ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T2A".
  - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
  - ALL CONNECTION BOLTS SHALL BE OF 16mm # CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1387 (PART-6).
  - MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS:2062
  - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
  - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
  - UNNOTED CLUSSETS ARE 6mm THICK
  - PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3063.
  - ALL NUTS SHALL CONFORM TO IS: 12427
  - GALVANIZING SHALL CONFORM TO IS: 2629-1985 & IS:4759-1996.
  - BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY.
  - FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

**FOR TENDER PURPOSE ONLY**

**Rural Electrification Corporation Ltd.**

PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

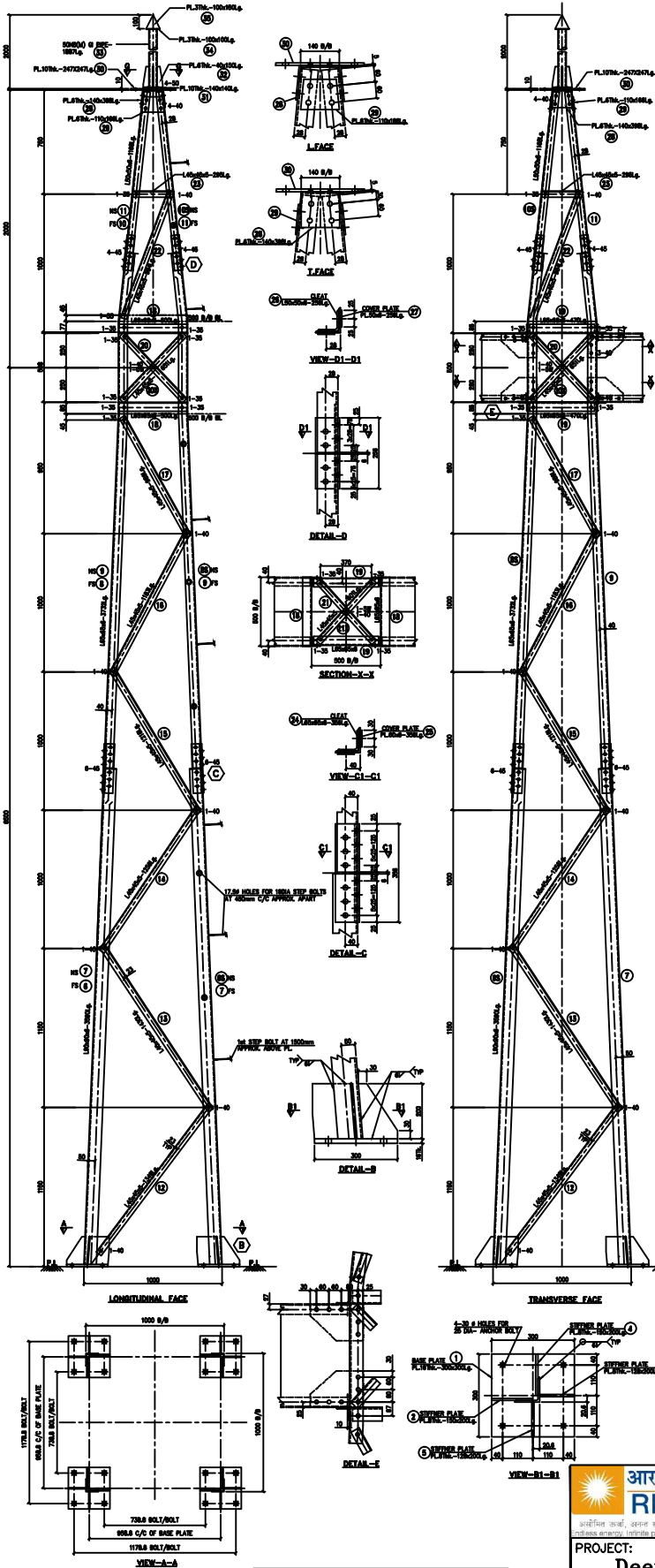
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/33/11kV PSS/30B	1 OF 1	0

PROTO ASSEMBLY SHOULD BE MADE BEFORE MASS FABRICATION

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

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					





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		3732	2	5.8	21.65	43.3
10	L50x50x6		1168	1	4.5	5.26	5.26
10s	L50x50x6		1168	1	4.5	5.26	5.26
11	L50x50x6		1168	2	4.5	5.26	10.51
12	L45x45x5		1349	4	3.4	4.59	13.45
13	L45x45x5		1430	4	3.4	4.86	19.45
14	L45x45x5		1256	4	3.4	4.27	17.08
15	L45x45x5		1218	4	3.4	4.14	16.56
16	L45x45x5		1183	4	3.4	4.02	16.08
17	L45x45x5		989	4	3.4	3.36	13.44
18	L65x65x6		500	4	5.8	2.9	11.6
19	L65x65x6		470	4	5.8	2.73	10.90
20	L45x45x5		663	4	3.4	2.25	9.02
20X	L45x45x5		663	4	3.4	2.25	9.02
21	L45x45x5		601	2	3.4	2.04	4.08
21X	L45x45x5		601	2	3.4	2.04	4.08
22	L45x45x5		984	4	3.4	3.35	13.4
23	L45x45x5		295	4	3.4	1.00	4.00
24	L65x65x6		356	2	5.8	2.06	4.13
25	6MM PLATE	356x60	4	47.1	1.00	4.00	
26	L60x60x6		256	2	5.4	1.38	2.76
27	6MM PLATE	256x50	4	47.1	0.60	2.41	
28	6MM PLATE	140x398	1	47.1	2.62	2.62	
29	6MM PLATE	110x166	2	47.1	0.86	1.72	
30	10MM PLATE	247x247	1	78.5	4.79	4.79	
31	10MM PLATE	140X140	1	78.5	1.54	1.54	
32	6MM PLATE	40X150	4	47.1	0.283	1.130	
33	50NB PIPE		1887	1	5.1	9.62	9.62
34	3MM PLATE	100X100	1	23.55	0.236	0.236	
35	3MM PLATE	100X150	1	23.55	0.353	0.353	
TOTAL WEIGHT						496.02	

BOLT & NUT WEIGHT			
SIZE	QTY.	UNIT WT.	TOTAL WT.
M16x35mm Lg. BOLTS & NUTS	44	0.124	5.46
M16x40mm Lg. BOLTS & NUTS	74	0.132	9.77
M16x45mm Lg. BOLTS & NUTS	80	0.14	11.2
M16x50mm Lg. BOLTS & NUTS	4	0.148	0.59
M16x55mm Lg. BOLTS & NUTS	-	0.156	-
M16x175mm Lg. STEP BOLTS	13	0.41	5.33
M16x5thk. PACK WASHER	6	0.028	0.168
M16x6thk. PACK WASHER	-	0.034	-
M16x8thk. PACK WASHER	-	0.045	-
M16x12thk. PACK WASHER	-	0.068	-
M16x3.5thk. SPRING WASHER	202	0.009	1.818
TOTAL			28.85

- NOTES**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
  - BOLT SYMBOLS 16# = 17.5#
  - ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T3".
  - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
  - ALL CONNECTION BOLTS SHALL BE OF 16mm # CONFORMING TO IS 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS 1307 (PART-8).
  - MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS2002
  - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
  - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
  - UNNOTED GUSSETS ARE 6mm THICK
  - PLATE WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 2003.
  - ALL NUTS SHALL CONFORM TO IS: 12427
  - GALVANIZING SHALL CONFORM TO IS: 2829-1985 & IS:4759-1996.
  - BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHENEVER NECESSARY.
  - FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

FOR TENDER PURPOSE ONLY



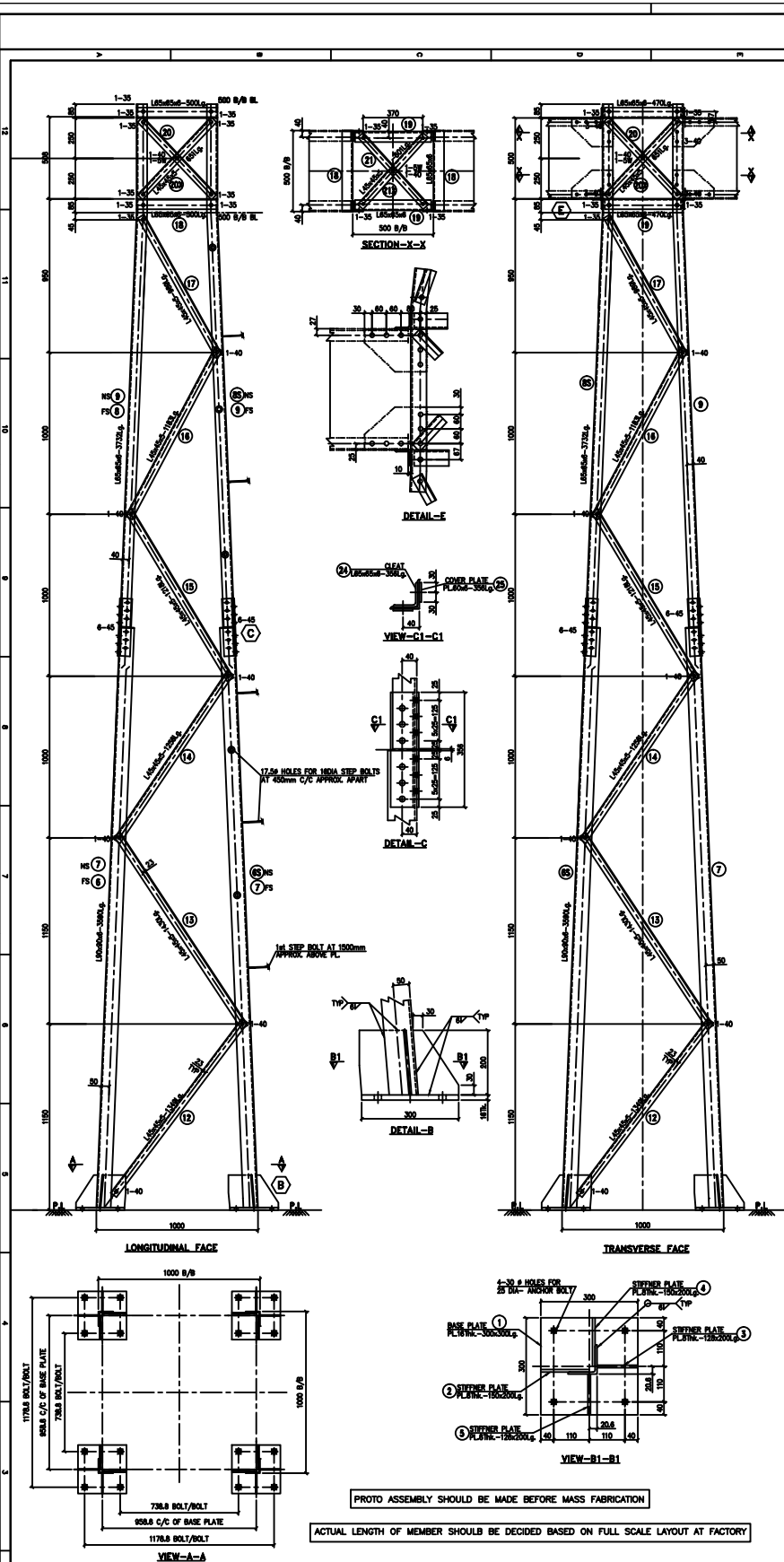
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: STRUCTURAL DETAILS OF TOWER TYPE - "T3"

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

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



BILL OF MATERIAL						
Erection Mark	Section	Length Size(In MM)	Reqd. Qty.	Unit/M Weight	Unit/Ass. Weight	Total WeightKg
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**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
  - BOLT SYMBOLS 16# = 17.5# HOLES
  - ALL ERECTION MARKS ARE TO BE PREFIXED WITH - "T3A".
  - 3.5mm SPRING WASHER TO BE SUPPLIED WITH EVERY BOLT
  - ALL CONNECTION BOLTS SHALL BE OF 16mm # CONFORMING TO IS: 12427 OF PROPERTY CLASS 5.6 CONFORMING TO IS: 1367 (PART-6).
  - MILD STEEL SHALL CONFORM TO GRADE A (FE410) OF IS:2062
  - MINIMUM EDGE SECURITY FOR 16# BOLT SHALL BE 25mm FROM CUT EDGE
  - ALL UNNOTED MEMBERS ARE L45x45x5 WITH 23 BM
  - UNNOTED GUSSETS ARE 6mm THICK
  - PLAIN WASHERS SHALL BE AS PER IS: 2016 & SPRING WASHER SHALL BE AS PER IS: 3083.
  - ALL NUTS SHALL CONFORM TO IS: 12427
  - GALVANISING SHALL CONFORM TO IS: 2628-1985 & IS:4759-1996.
  - BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY.
  - FABRICATOR TO DETERMINE THE REQUIREMENT OF CHAMFERING THE ENDS OF MEMBERS BY LAYING OUT THE STRUCTURE TO FULL SCALE ON THE SHOP FLOOR, BEFORE FABRICATION AND GALVANIZING.

**FOR TENDER PURPOSE ONLY**

**Rural Electrification Corporation Ltd.**

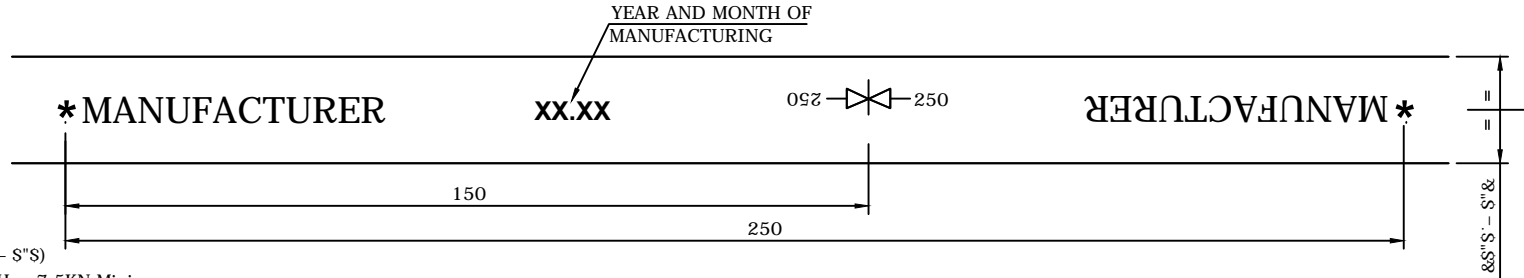
PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
RO					

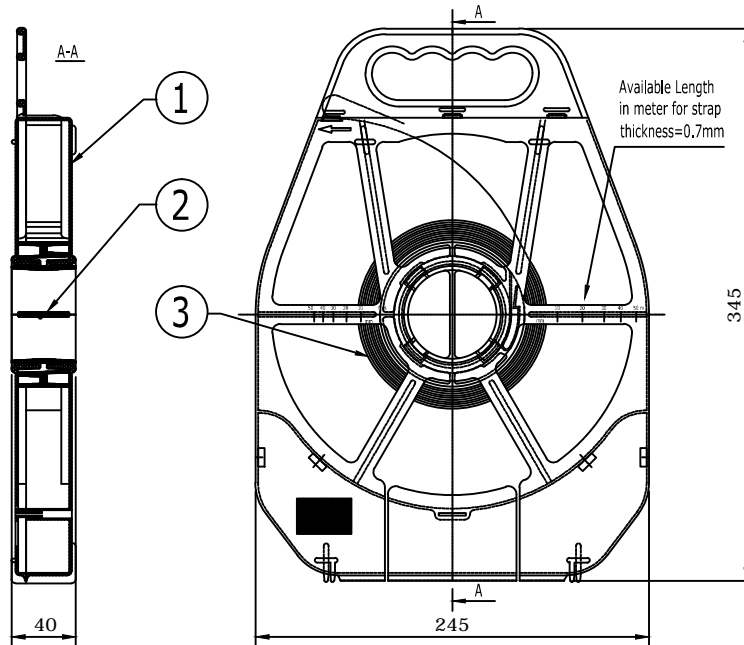
STRAP: -



NOTE :-

Hk = 7? B9GG'1 'S''+ ' - S''S)  
 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: -



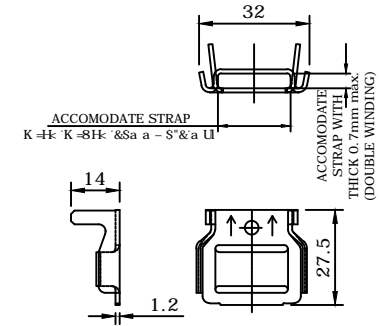
1	S.S STRAP CASING	1	Polypropylene
2	S.S STRAP BOBIN	1	Polypropylene
3	S.S STRAP	50 M	SS 202
Sl.No	Description	Qty	Material

NOTE :-

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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.

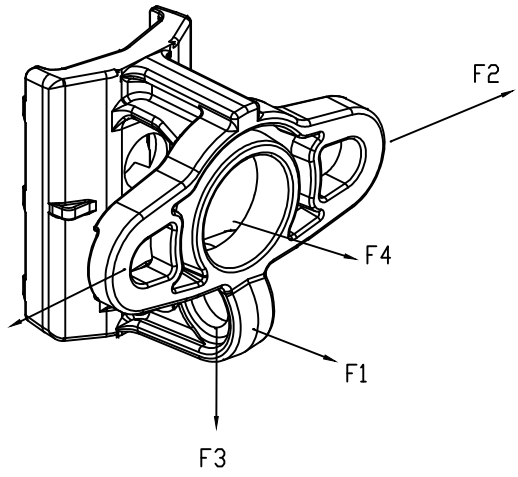
PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

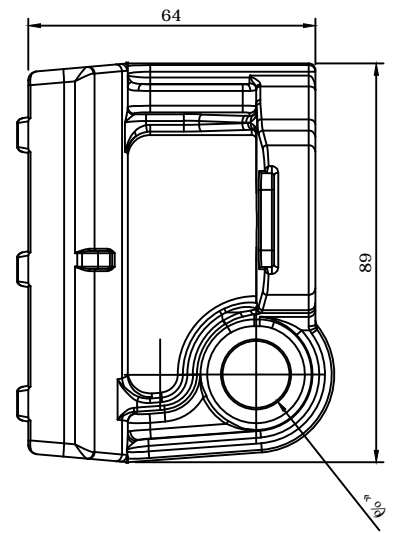
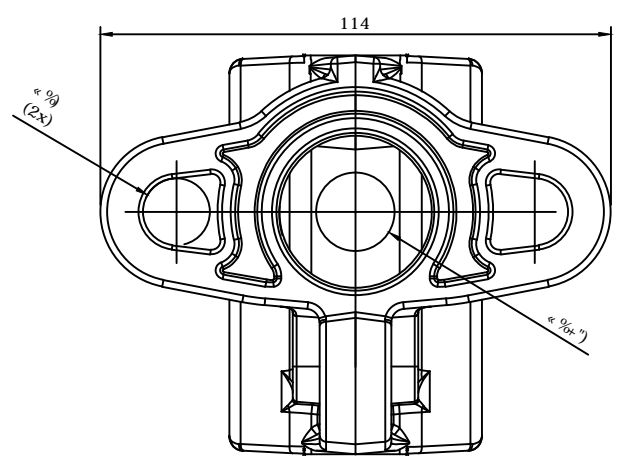
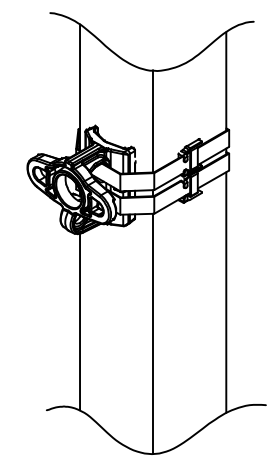
TITLE

STAINLESS STEEL STRAP (20 x 0.7) & BUCKLES

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/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(Aprox.)  
 STANDARD REFERENCE: SIMILAR TO NFC 33-041

FOR TENDER PURPOSE ONLY

**आर ई सी**  
**REC**  
आरिफिकेशन कॉर्पोरेशन, ग्राम ज्योती योजना  
ref:basic energy, electrification, rural

Rural Electrification Corporation Ltd.

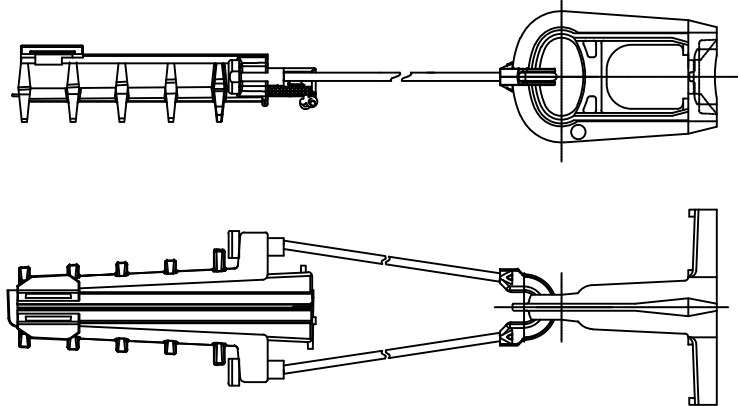
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: UNIVERSAL POLE BRACKET

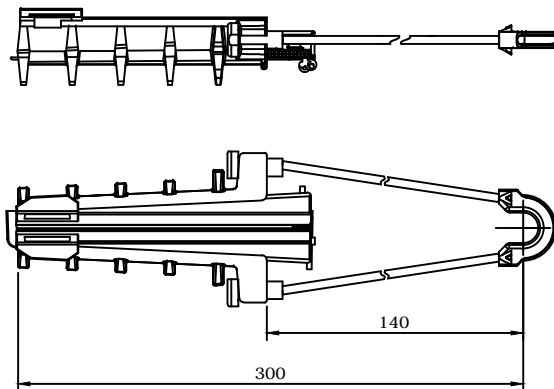
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/LT-ACC-ABC/02	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

ANCHORING ASSEMBLY :-

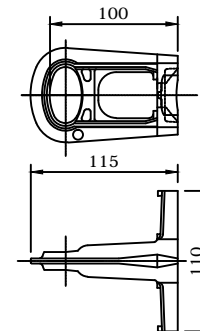
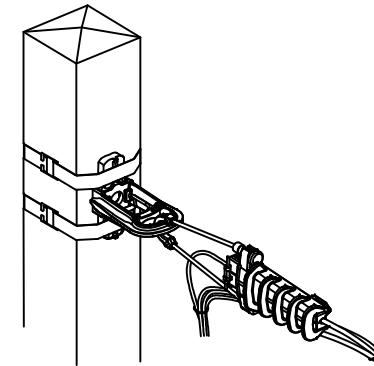


ANCHORING (DEAD-END) CLAMP :-



SPECIFICATION :- AS PER NF C33-041

Messenger Type	Cable Range (mm <sup>2</sup> )		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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

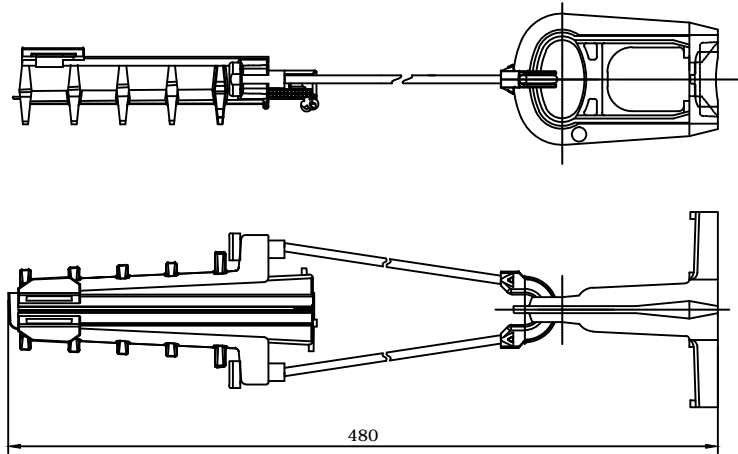
TITLE

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

R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	

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

ANCHORING ASSEMBLY :-



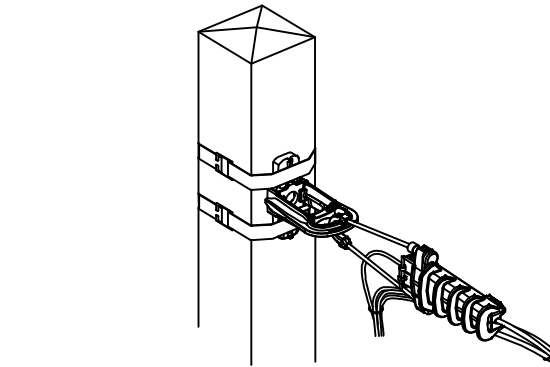
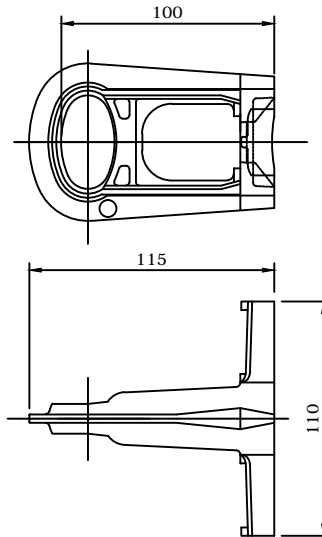
BRACKET :-

NOTE :-

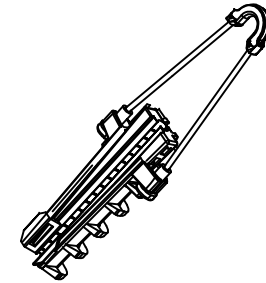
MATERIAL: ALUMINIUM ALLOY

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 <sup>2</sup> )		Minimum Breaking Load (KN)
	Min	Max	
INSULATED/BARE	70	95	20

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

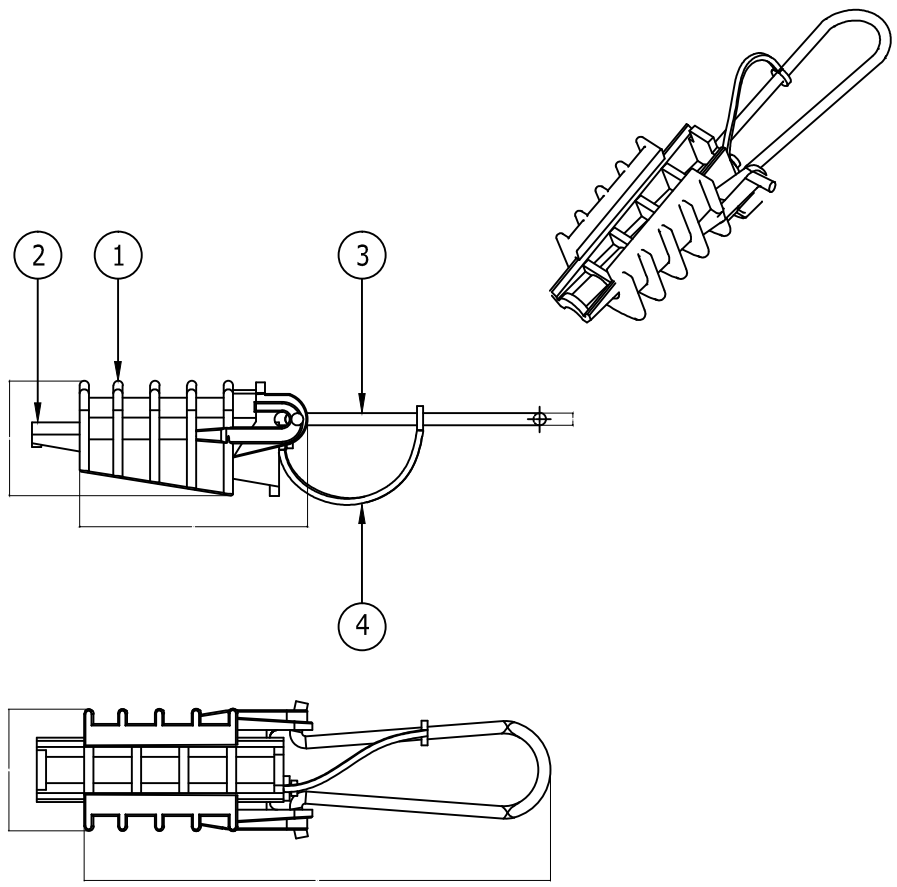
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT


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

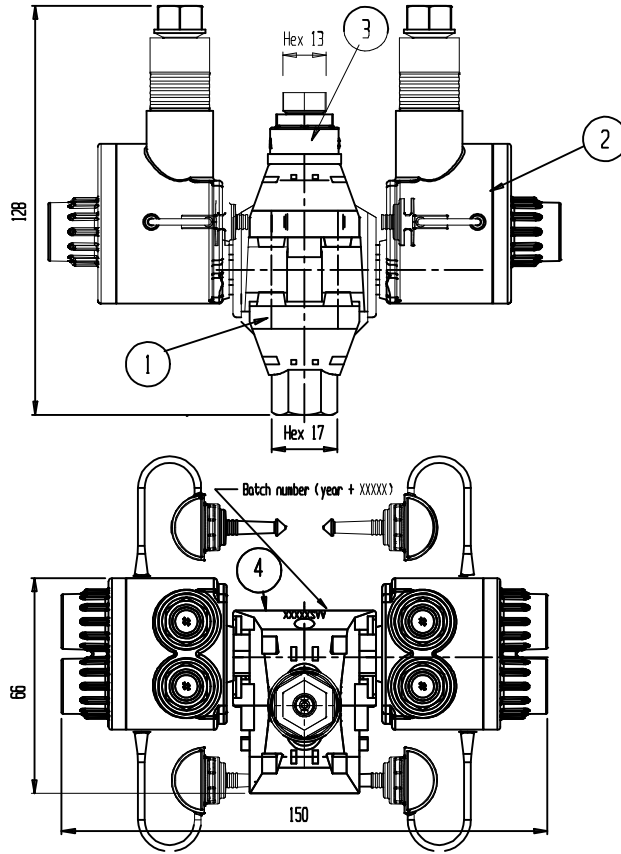


4	1	Wedge tie	T.P Elastomer
3	1	Bail	Stainless steel
2	1	Wedge	Thermoplastic
1	1	Body	Thermoplastic
Rep	Qty	Description	Material

FOR TENDER PURPOSE ONLY

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

 <b>आर ई सी</b> <b>REC</b> <small>असीमित ऊर्जा, अनन्त संभावनाएं</small> <small>Endless energy, infinite possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE</b> SERVICE CLAMP			
<b>SIZE</b> A4	<b>SCALE</b> 1:100	<b>DRG. NO.</b> REC/DDUGJY/LT-ACC-ABC/04	<b>SHT. NO.</b> 1 OF 1
<b>REV. NO.</b> R0		<b>PREPARED</b>	<b>REV. NO.</b> 0
<b>CHECKED</b>	<b>APPROVED</b>	<b>DATE</b>	<b>PROJECT</b>



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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

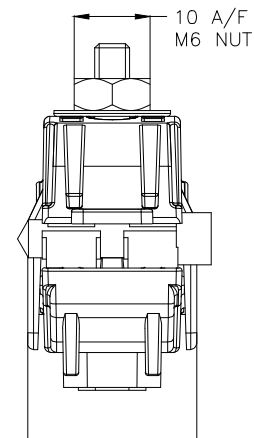
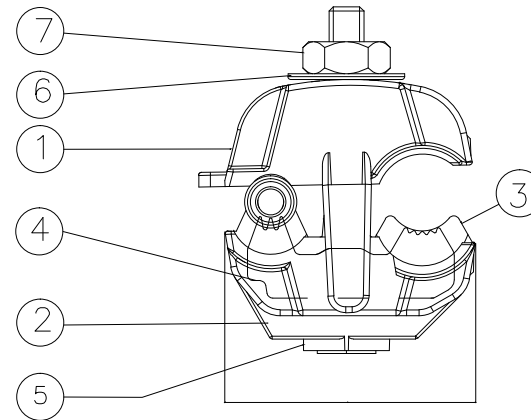
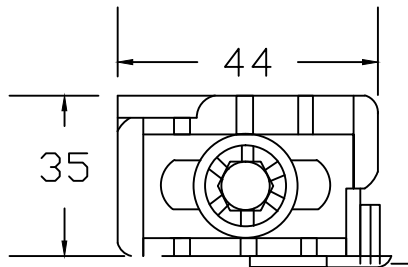
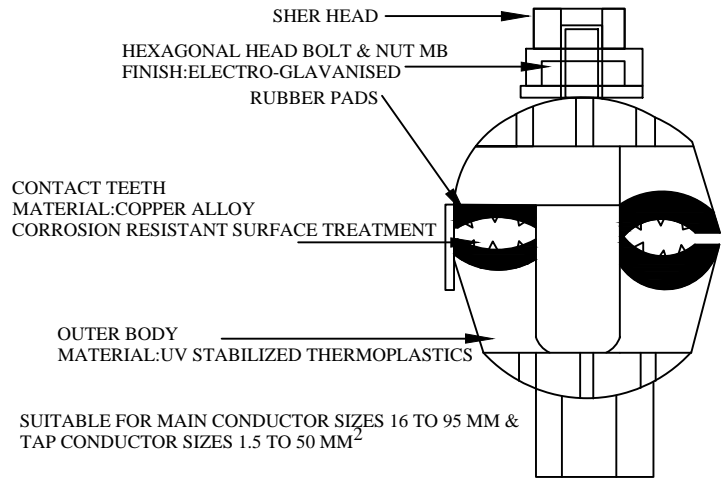
TITLE

MUTIPOINT INSULATION PIERCING CONNECTOR  
STRIPPING / PIERCING

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/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.

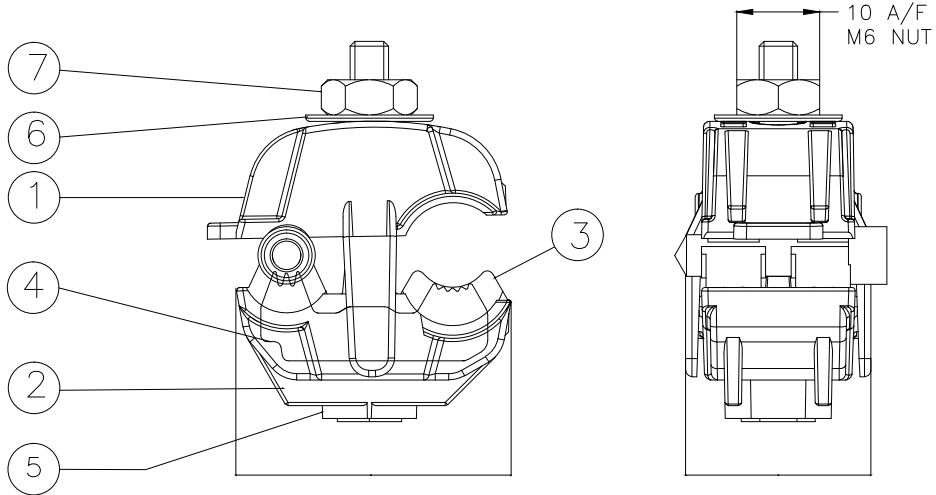
PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

INSULATION PIERCING CONNECTOR

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



**CABLE RANGE:**

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

WEIGHT: "W" Grams (Approx)

RATED TIGHTENING TORQUE: "X" Nm

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

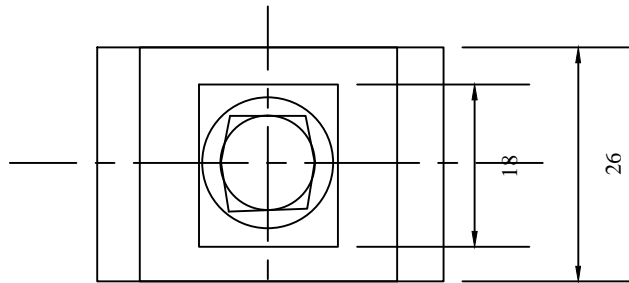
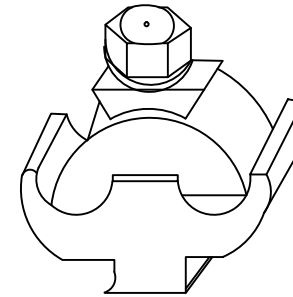
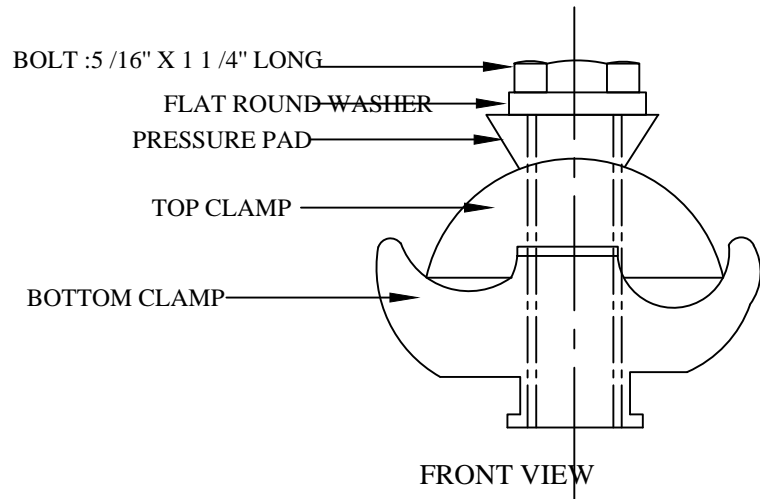
PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

EARTHING CONNECTOR

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




SUITABLE FOR 2.5 mm<sup>2</sup> TO 50 mm<sup>2</sup> 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

		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b>		Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)	
<b>TITLE</b>		EARTHING CONNECTOR	
<b>SIZE</b>	<b>SCALE</b>	<b>DRG. NO.</b>	<b>SHT. NO.</b>
A3	NTS	REC/DDUGJY/LT-ACC-ABC/06B	1 OF 1
<b>REV. NO.</b>	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>REV. NO.</b>
			0

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

**SUSPENSION ASSEMBLY :-**

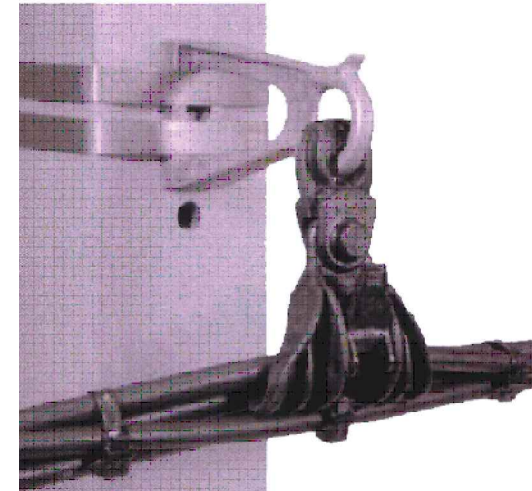
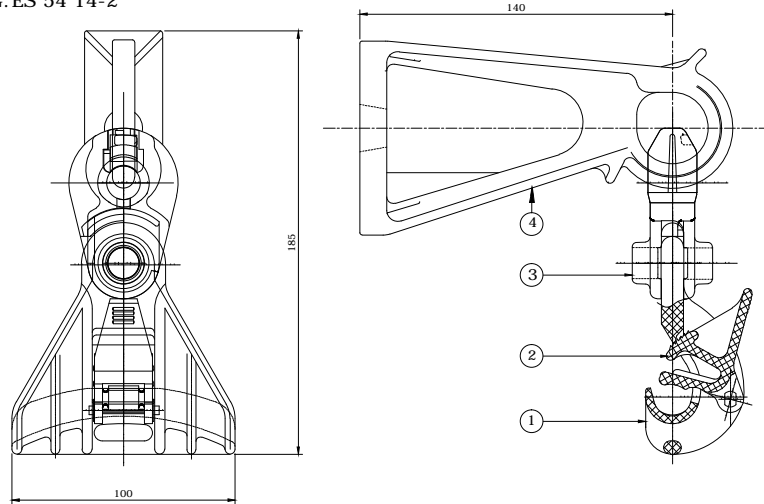
**NOTE :-**

**MATERIAL: SEE TABLE**

**WEIGHT: 380 GRAMS (Approx)**

**MARKING: ES 54 14-2**

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



**SUSPENSION ASSEMBLY :-**

**SPECIFICATION :- AS PER NF C33-040**

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

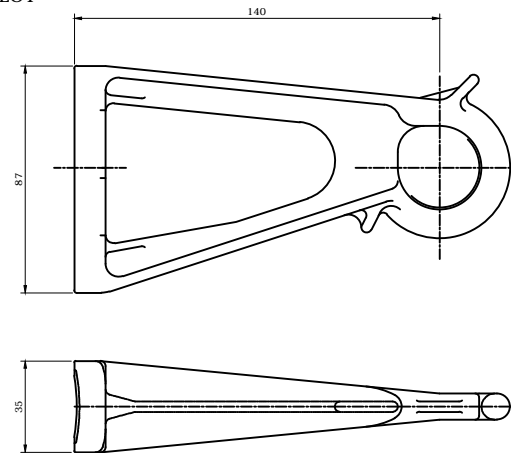
**BRACKET :- CS 14**

**NOTE :-**

**MATERIAL: HEAT TREATED ALUMINIUM ALLOY**

**MARKING: CS 14**

**SPECIFICATION :- AS PER NFC33040**



**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

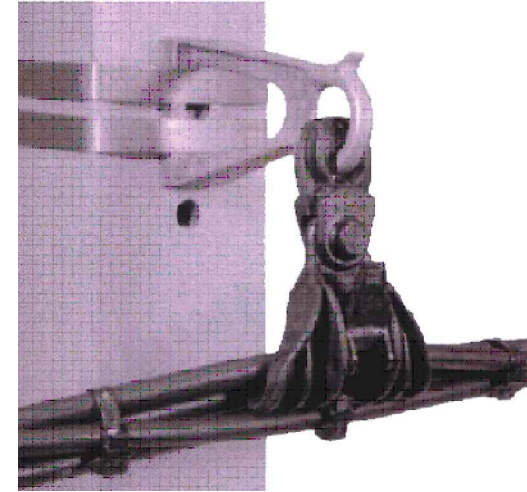
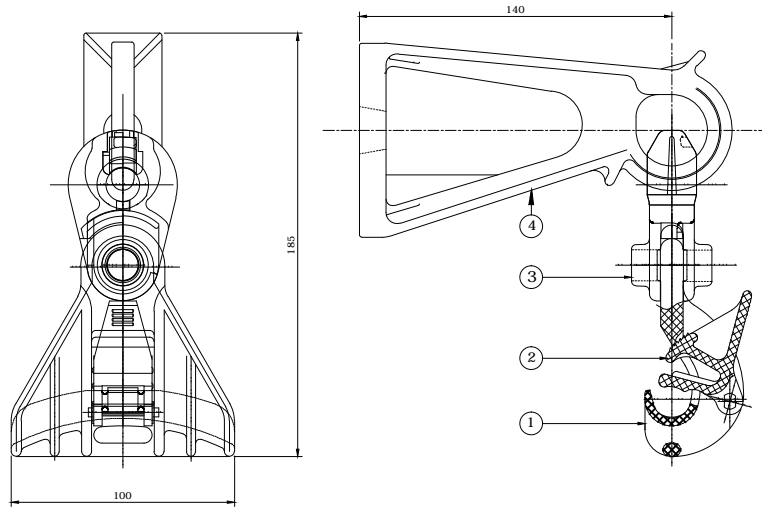
R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	

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

**SUSPENSION ASSEMBLY :-**

**NOTE :-**

**MATERIAL: SEE TABLE**



**SUSPENSION ASSEMBLY :-**

**SPECIFICATION :- AS PER NF C33-040**

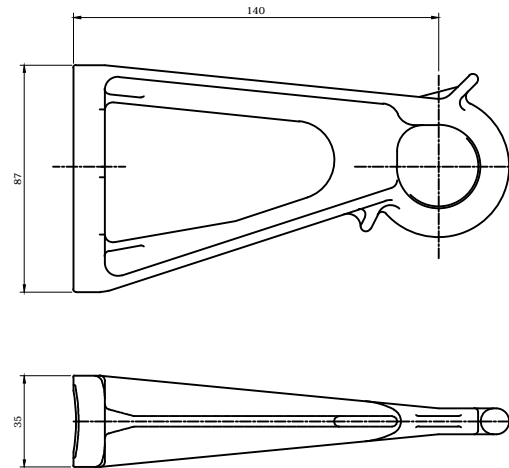
Messenger Type	Cable Range (mm <sup>2</sup> )		Load KN
	Min	Max	
INSULATED/BARE	25	50	12

**BRACKET :-**

**NOTE :-**

**MATERIAL: HEAT TREATED ALUMINIUM ALLOY**

**SPECIFICATION :- AS PER NFC33040**



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
REP	QTY	DESCRIPTION	MATERIAL	COLOUR

**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

**PROJECT:**

**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

**TITLE**

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

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

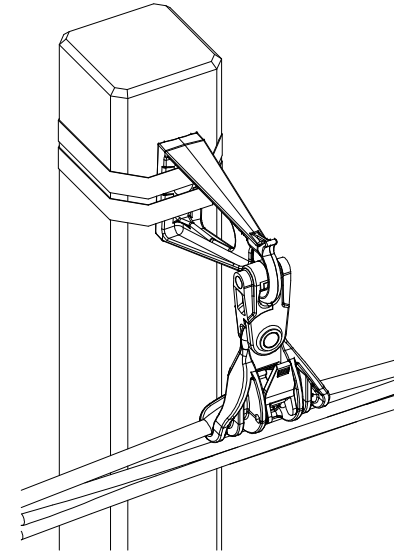
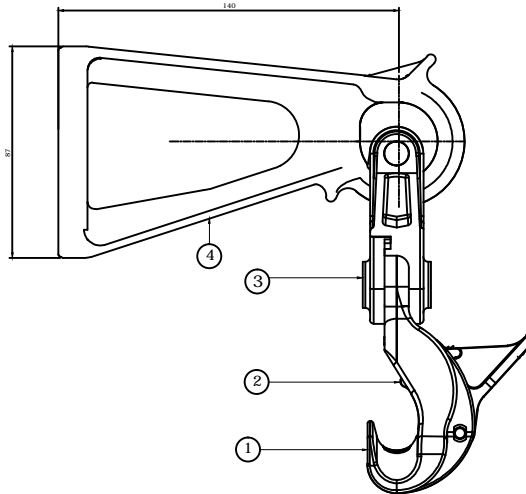
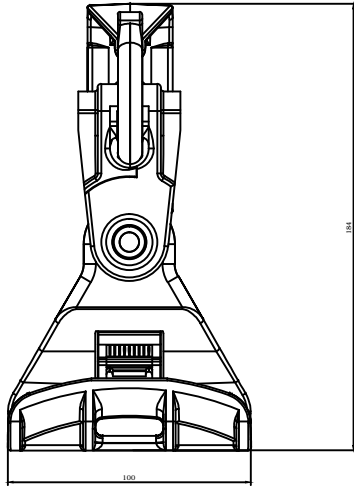
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/LT-ACC-ABC/07B	1 OF 1	0

**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

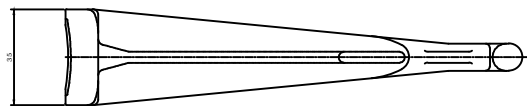
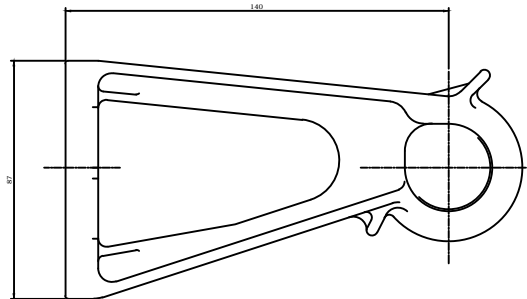


**BRACKET :-**

**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.**

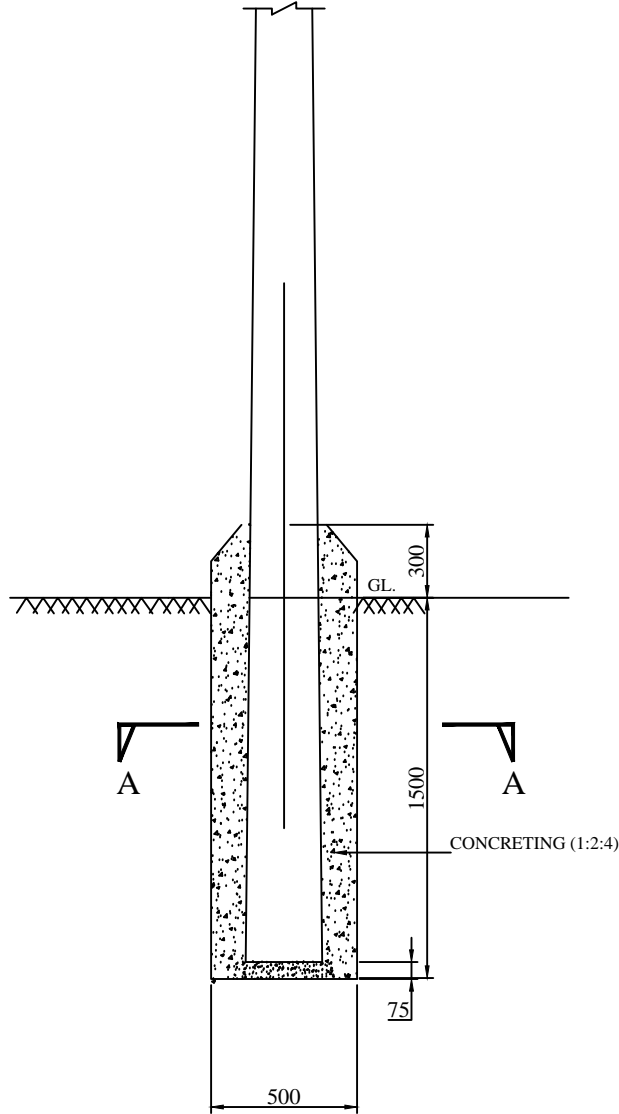
**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

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

GENERAL TOLERANCE ON DIMENSIONS: -0.1

R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	

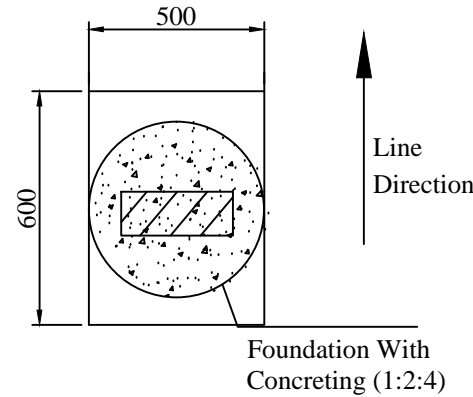
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/LT-ACC-ABC/07C	1 OF 1	0



Concrete Foundation For PSC Poles

S.NO.	Description	Vol. in m <sup>3</sup>
1	Gzecxkqp"207Ó"z28z307O +	0.45
2	Eqpetgkpi "Ó207z207z"318j "rgpi y "lp"o o "+ +0.014 Cut for muffing	

All Dimensions are in mm unless otherwise mentioned




Section A-A

**NOTES:-**

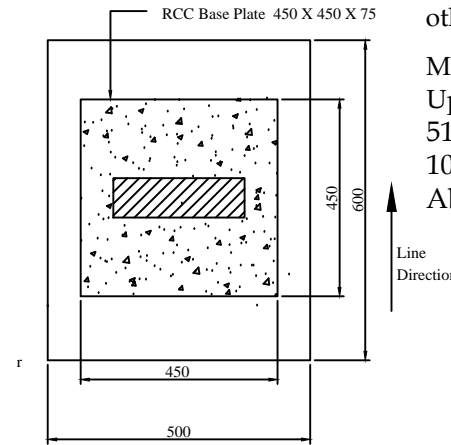
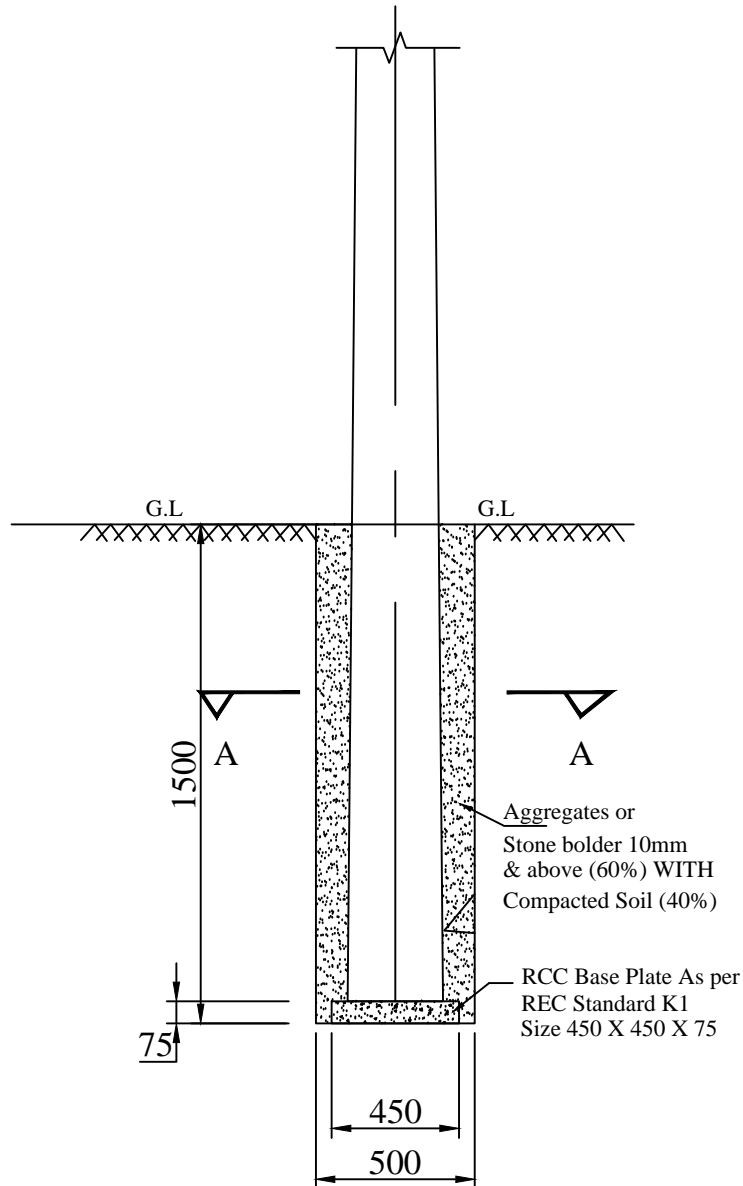
- 1.UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MM.
- 2.THIS ARRANGEMENT SHALL BE USED FOR ALL TAPPING POLES ,DEAD END POLES , DTC ANGULAR POLES, CROSSING, 2/4 POLE STRUCTURES AND FOR ALL 33 KV POLES.

FOR TENDER PURPOSE ONLY

 <b>आर ई सी REC</b> <small>असतो मा सद्गमय</small> <small>Lead us from the unreal to the real</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE:</b> CONCRETE (PCC) FOUNDATION DETAILS FOR PSC POLES			
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/GEN/01	<b>SHT. NO.</b> 1 OF 1
<b>REV. NO.</b>	<b>PREPARED BY</b>	<b>CHECKED BY</b>	<b>APPROVED BY</b>
<b>DATE</b>	<b>PROJECT</b>		<b>REV. NO.</b> 0

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

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



All Dimensions are in mm unless otherwise mentioned

Manufacturing Tolerance as Follows

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

**NOTES:-**

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

FOR TENDER PURPOSE ONLY

**Plain Foundation for PSC Pole**



**Rural Electrification Corporation Ltd.**

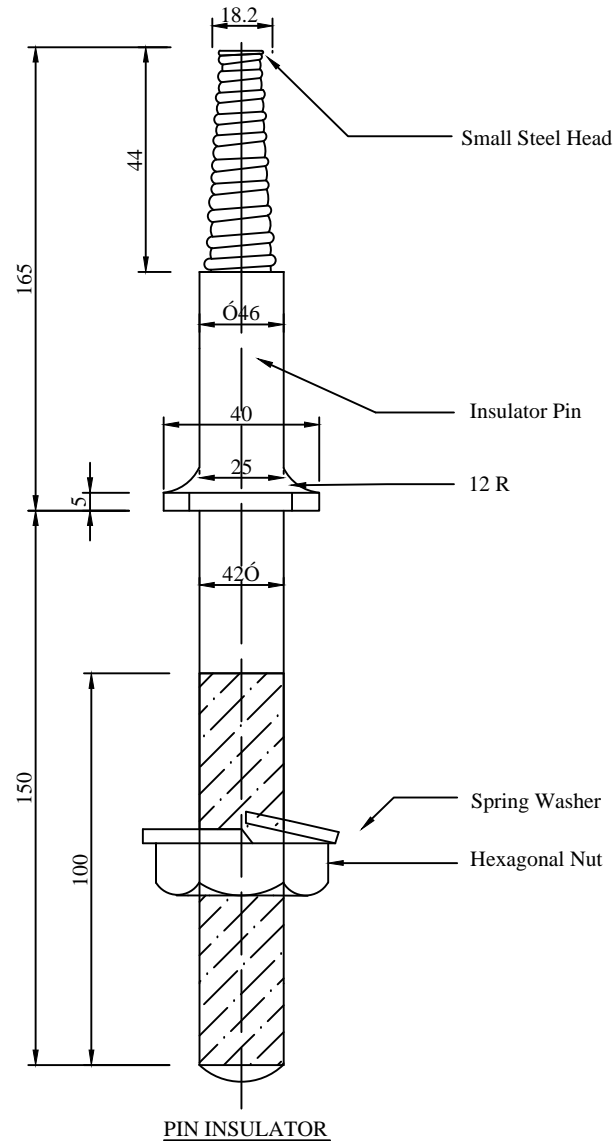
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

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

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






**NOTES:-**

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

UP TO 50mm	<math>\pm 0.7'</math>
51 TO 100mm	<math>\pm 0.6'</math>
101 TO 300mm	<math>\pm 0.5'</math>
ABOVE 300mm	<math>\pm 0.4'</math>

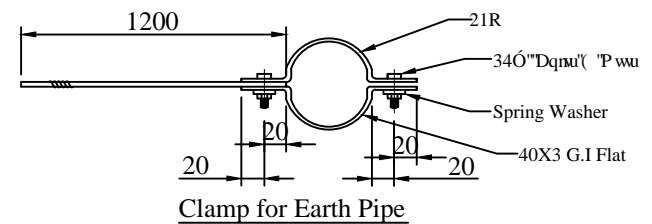
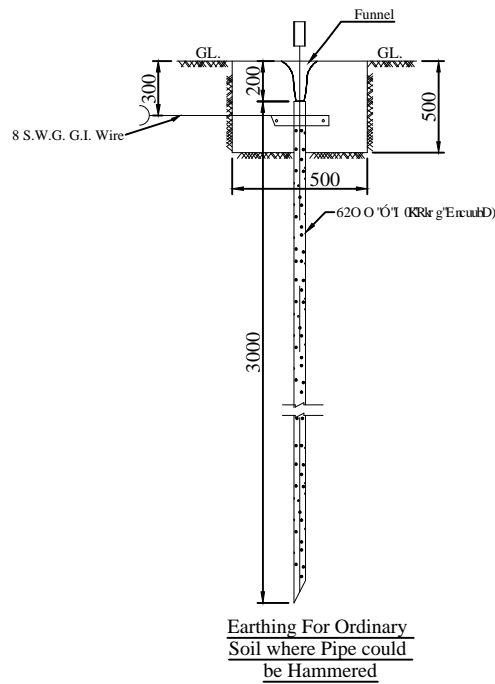
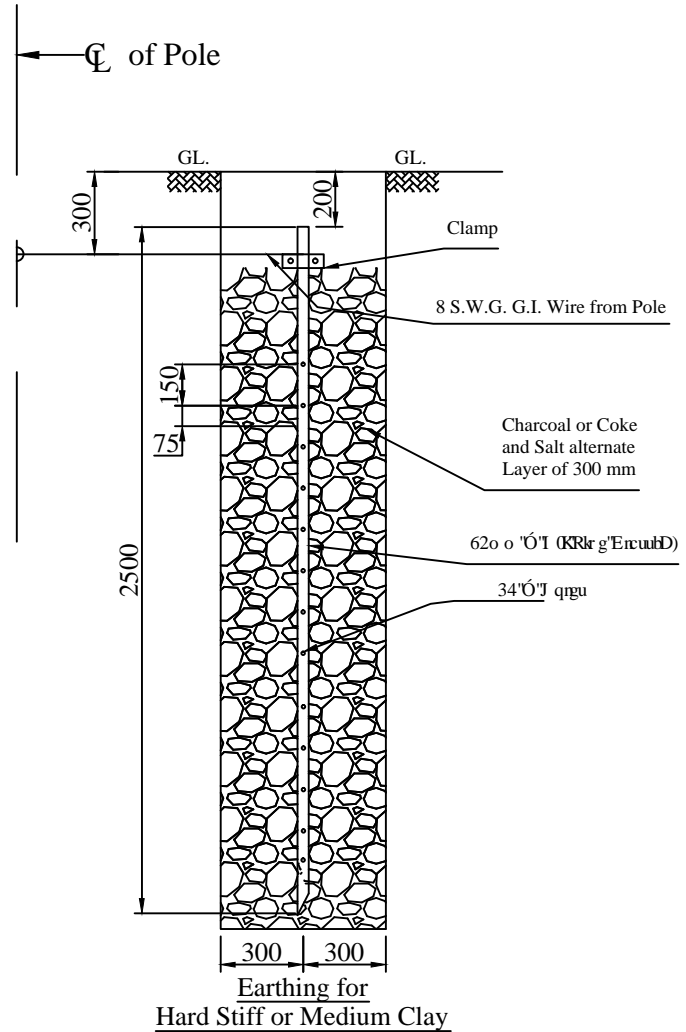
FOR TENDER PURPOSE ONLY

 <b>आर ई सी</b> <b>REC</b> <small>असमिता कर्म, अमृत संभारणम्</small> <small>सर्वजन प्रसादनम्, इन्दिरा गांधीवादी</small>	<b>Rural Electrification Corporation Ltd.</b>			
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> PIN INSULATOR				
<b>SIZE:</b> A3	<b>SCALE:</b> NTS	<b>DRG. NO.:</b> REC/DDUGJY/GEN/03	<b>SHT. NO.:</b> 1 OF 1	<b>REV. NO.:</b> 0

R0							
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT		

### BILL OF MATERIAL


S.NO.	DESCRIPTION	ERECTION MARK	SECTION	LENGTH in MM	Wt/Mtr Kg/M	QTY	TOTAL Wt. Kg
1	Clamp for Earth Pipe		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:-

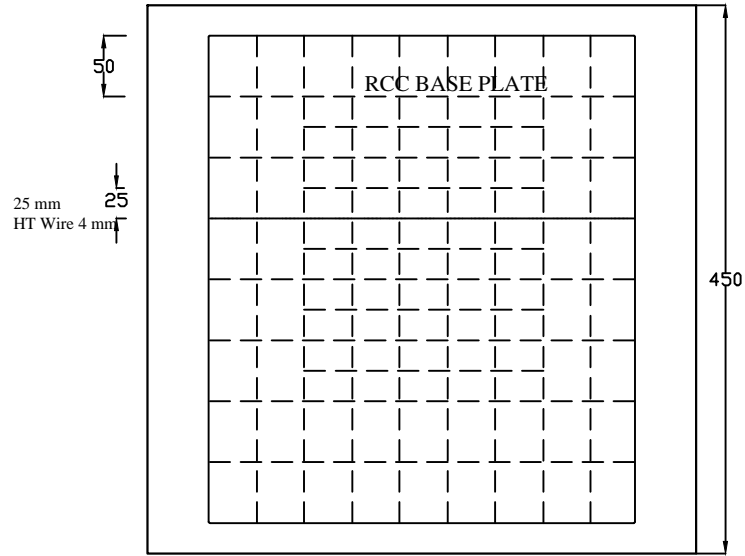
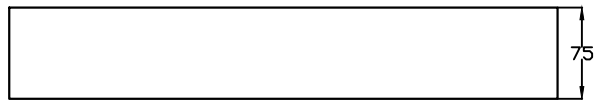
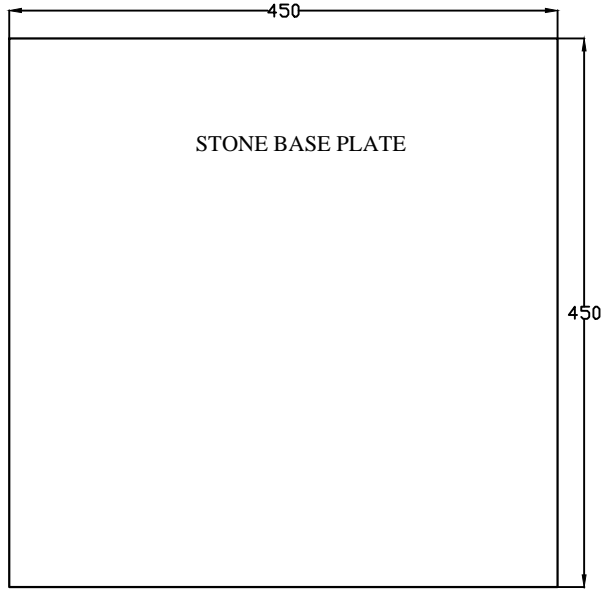
- ALL DIMENSIONS ARE IN MM.
- EARTH TERMINAL OF G.I  
UVT'R'62z5'Y KJ '4'P QU34'UVWF U
- MANUFACTURING TOLERANCE.  
WRVQ'72o o '"/Ø7'  
73'VQ'322o o '"/Ø6'  
323'VQ'522o o '"/Ø5'  
CDQXG'522o o '"/Ø4'
- MS PARTS SHALL CONFIRM TO IS:2062
- ALL MS PARTS TO BE HOT DIP GALVANISED AS PER IS 2629 & 4759.
- WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE ONLY

FOR TENDER PURPOSE ONLY

 <b>आर ई सी</b> <b>REC</b> <small>सुदृढि कर्म, सुदृढि विकास</small> <small>enhance energy, enrich possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>	
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
<b>TITLE</b> PIPE TYPE EARTHING			
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/GEN/04	<b>SHT. NO.</b> 1 OF 1
<b>REV. NO.</b>		<b>REV. NO.</b>	

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



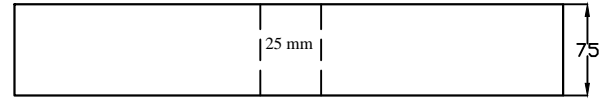
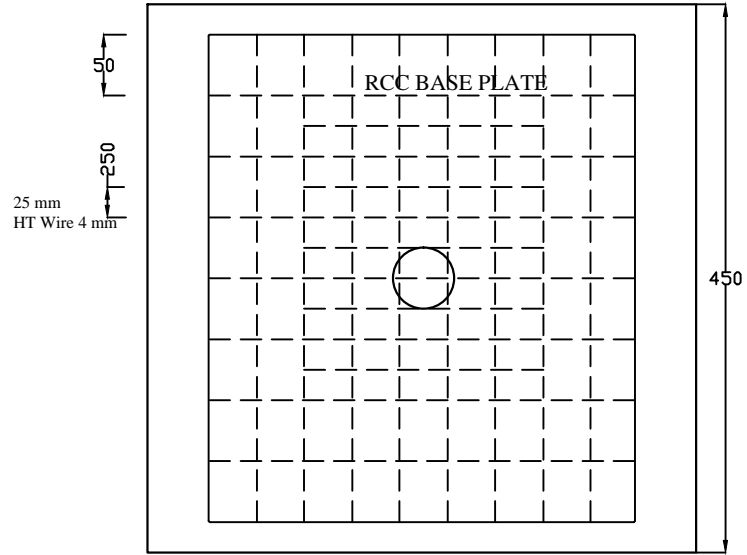
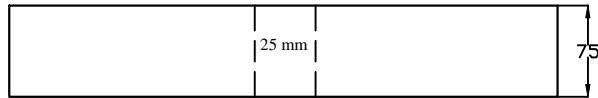
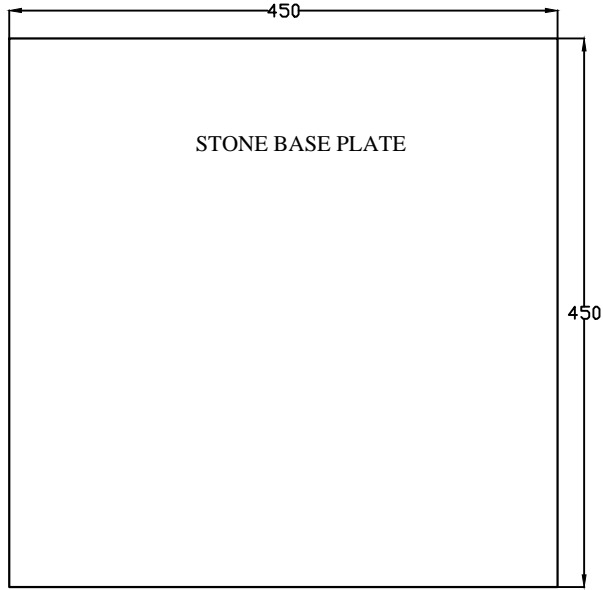


All dimensions are in mm.

FOR TENDER PURPOSE ONLY

<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)	
<b>TITLE:</b> DRAWING FOR STONE/RCC BASE PLATE FOR STAY SET	
<b>SIZE SCALE:</b> AS NOTED	<b>DRG. NO.:</b> REC/DDUGJY/GEN/05B
<b>SHT. NO.:</b> 1 OF 1	<b>REV. NO.:</b> 0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



All dimensions are in mm.

FOR TENDER PURPOSE ONLY



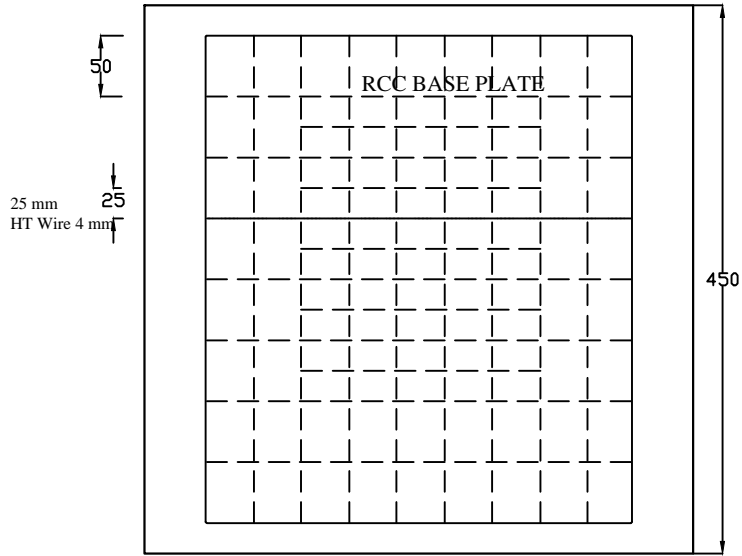
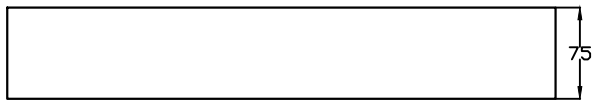
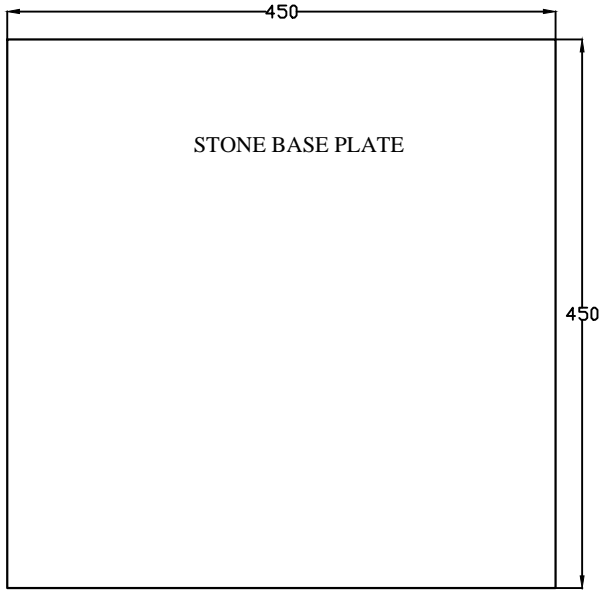
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

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


SIZE SCALE	DRG. NO.	SHT. NO.	REV. NO.
AS NOTS	REC/DDUGJY/GEN/5C	1 OF 1	0

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



All dimensions are in mm.

FOR TENDER PURPOSE ONLY

		Rural Electrification Corporation Ltd.	
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)			
TITLE: DRAWING FOR STONE/RCC BASE PLATE FOR STAY SET			
SIZE	SCALE	DRG. NO.	SHT. NO. REV. NO.
AS	NTS	REC/DDUGJY/GEN/5D	1 OF 1 0

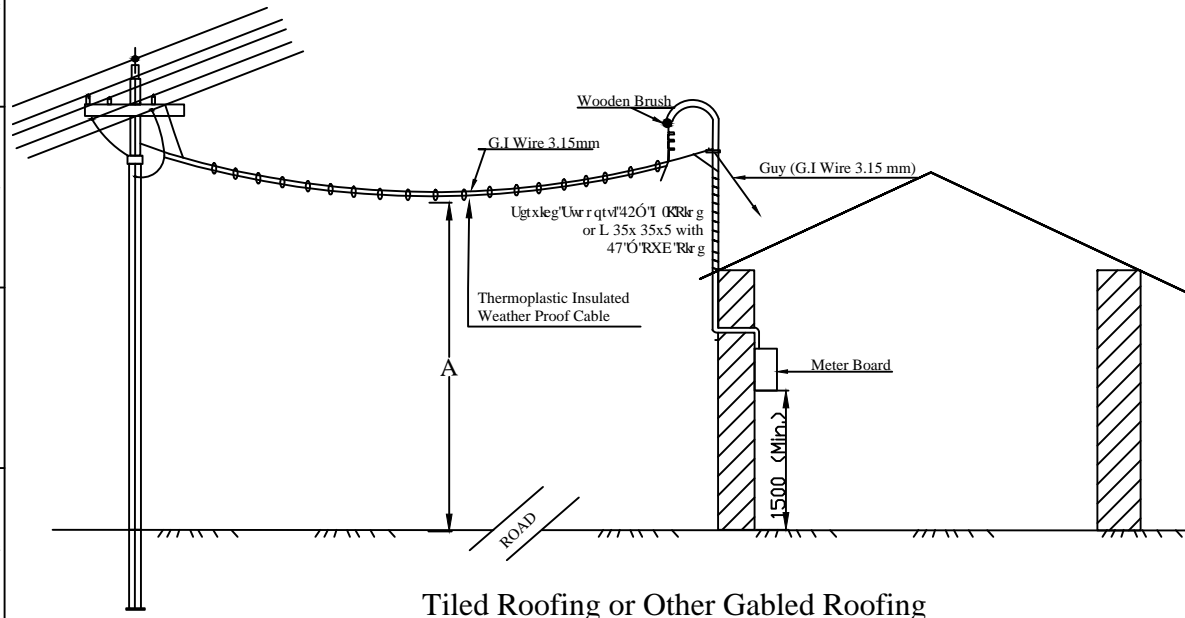
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

### Type & Size of Service Cable

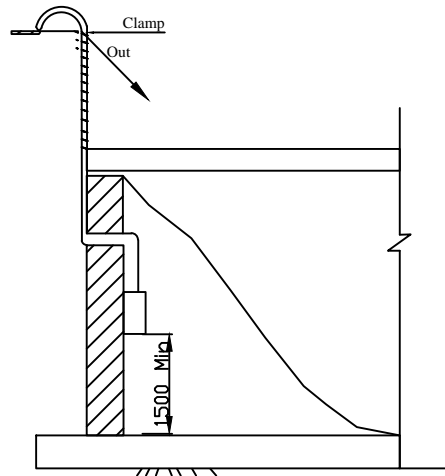
Type	Connected Load	Size
Twin Core Thermoplastic Insulated W.P. Cables As PER IS 3035 (Part-I) IS 3035 (Part-III)	Upto 2 KW	2.5 mm <sup>2</sup>
	Above 2 KW to 4 KW	4.0 mm <sup>2</sup>

### Minimum Ground Clearance

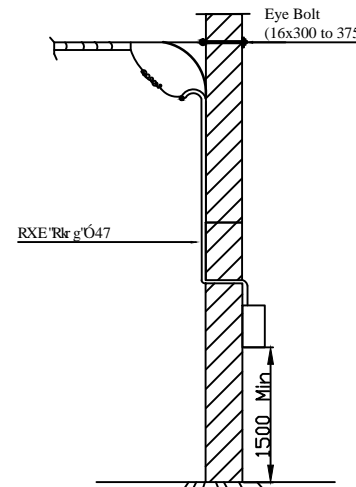
Dimension	Across the Road	Along the Road	Else Where
A	5800	5500	4000



Tiled Roofing or Other Gabled Roofing



Single Storey-Flat/R.C.C Roofing



Multi Storey or Single Storey Building with High 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. 5% of 420 kg of wire of 470 RXE Rlg per IS: 2509-1963 may be used.
4. Clamps to be made from 40x3 M.S. Flat

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

LT Service Connection Single Phase

SIZE SCALE

DRG. NO.

A3 NTS

REC/DDUGJY/GEN/06

SHT. NO. REV. NO.

1 OF 1 0

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

### BILL OF MATERIALS

ERE. CODE.	DESCRIPTION	SECTION	LENGTH (in mm.)	QTY. (in Nos.)	Wt./Mtr. Kg./Mtr.	Total Wt. (in Kg.)
1	Earth Spike Rod	Dia. 20	2500	1	2.500	6.250
2	Clamp for Earth Spike	40x3	190	1	0.900	0.171
3	Bolt & Nuts	M12	30	1	0.058	0.058
4	Spring Washers (3.5 THK.)	M12		1	0.004	0.004
<b>TOTAL</b>						<b>6.483</b>

### NOTES:-

- ALL DIMENSIONS ARE IN MM.
- EARTH TERMINAL SHOULD BE MADE OF G.I  
UVTW'62z5'Y KJ '3P Q0340'UVWF 0
- MANUFACTURING TOLERANCE.  
WRVQ'72o o "'07'  
73'VQ'322o o "'06'  
323'VQ'522o o "'05'  
CDQXG'522o o "'04'
- CLAMP IS TO BE WELDED TO SPIKE.
- THE WHOLE ASSEMBLY IS TO BE HOT DIP GALVANISED (IS:2629&4759)
- ALL MS PARTS SHALL CONFIRM TO IS :2062
- WEIGHT MENTIONED IS FOR PACKING AND FORWARDING PURPOSE ONLY.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

SPIKE TYPE EARTHING FOR NORMAL SOIL

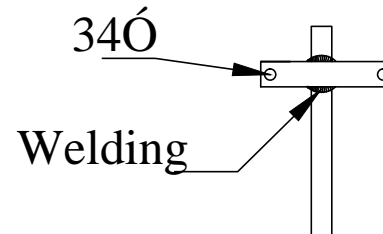
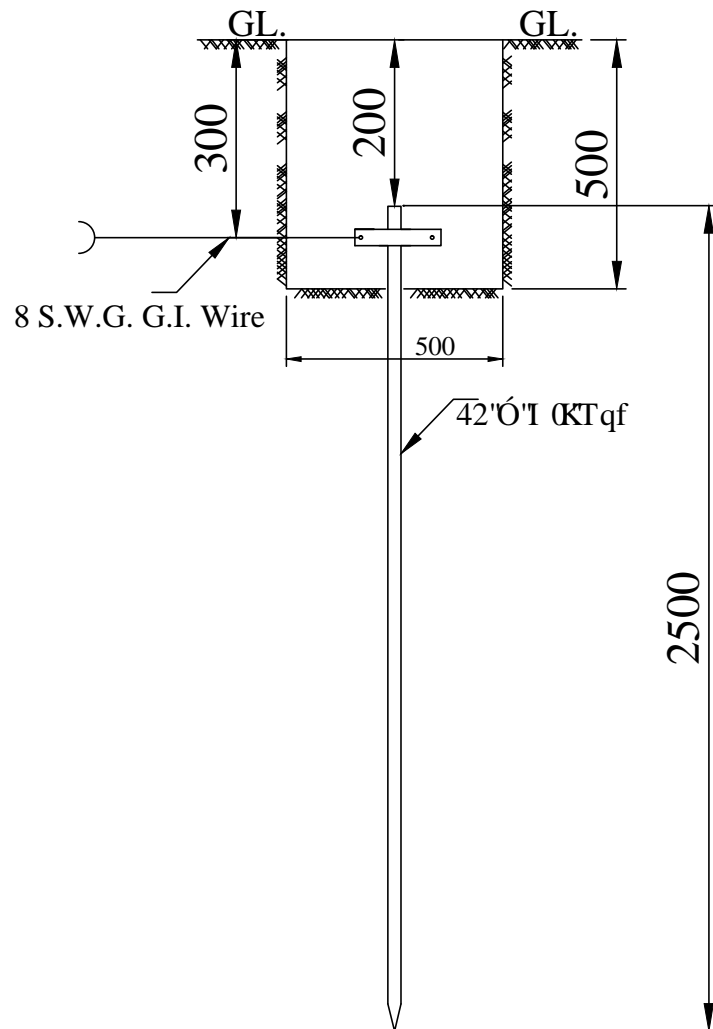
SIZE SCALE DRG. NO.

A3 NTS

REC/DDUGJY/GEN/07

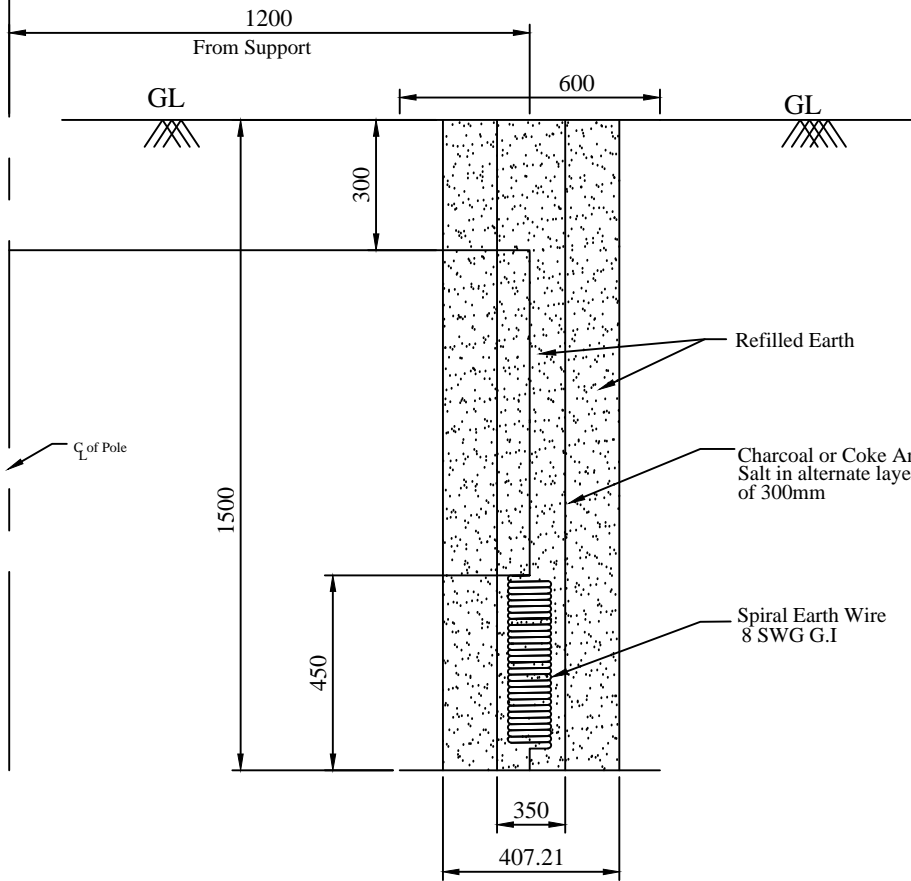
SHT. NO. REV. NO.

1 OF 1 0

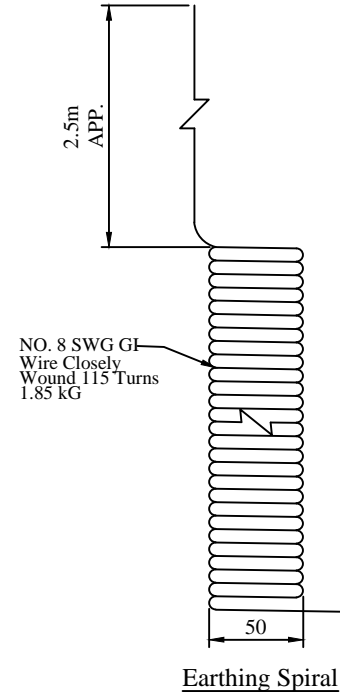


REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
RO					





Coil Earthing Details



Earthing Spiral

**NOTES:-**

- 1) All dimensions are in mm unless otherwise mentioned.
- 2) Manufacturing Tolerance.
- 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.**

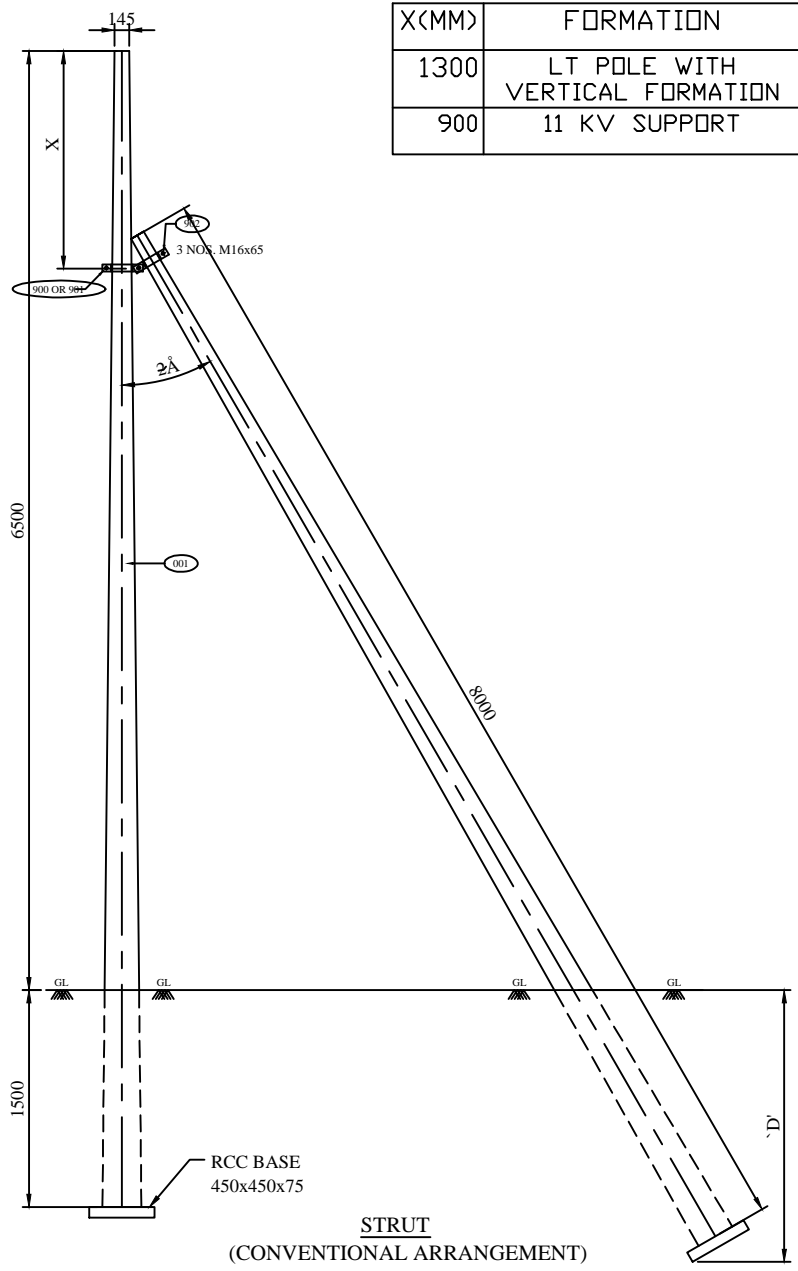
PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE: **SPIRAL EARTHING DETAILS**

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

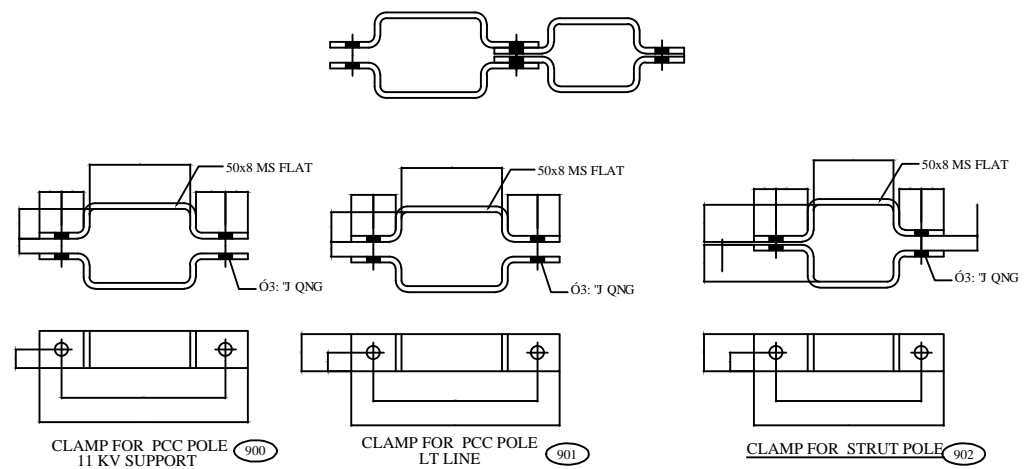






X(MM)	FORMATION
1300	LT POLE WITH VERTICAL FORMATION
900	11 KV SUPPORT

BILL OF MATERIAL							
ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH MM	KG./mtr.	QTY.	TOTAL Wt. KG.
001	8m/200 KG. PCC POLE					AS REDQ.	
900	CLAMP FOR PCC POLE (11KV SUPPORT)	50x8	MS	378	3.14	2 NOS.	2.373
901	CLAMP FOR PCC POLE (LT LINE)	50x8	MS	385	3.14	2 NOS.	2.418
902	CLAMP FOR STRUT POLE	50x8	MS	366	3.14	2 NOS.	2.298
	NUTS & BOLT	M16		65	0.164	3 NOS.	0.492
	SPRING WASHER	M16		3.5 THK.	0.009	3 NOS.	0.027
	PLAIN WASHER	M16		3 THK.	0.015	3 NOS.	0.045
<b>TOTAL</b>							<b>7.653</b>



- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE.  
 \*WRVQ720 o 7'07'  
 73'VQ'3220 o 7'06'  
 \*323'VQ'5220 o 7'05'  
 CDQXG'5220 o 7'04'
  - 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:SP6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.

FOR TENDER PURPOSE ONLY

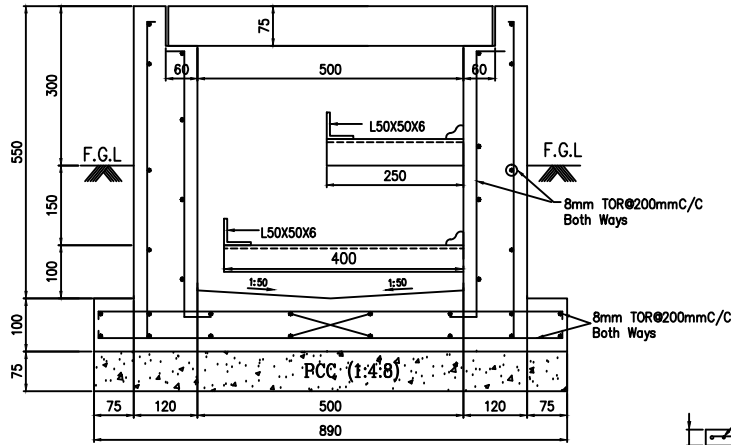
**Rural Electrification Corporation Ltd.**

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

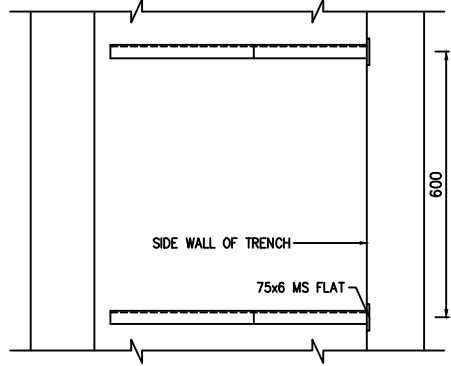
TITLE: STRUT ARRANGEMENT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/GEN/10	1 OF 1	0

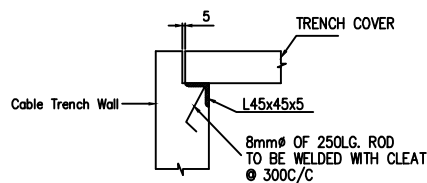
RO					COMMON FOR ALL
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



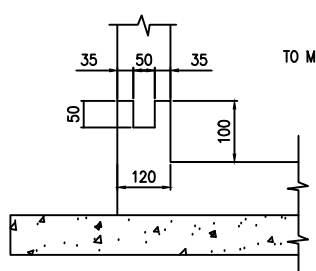
**DETAILS OF CABLE TRENCH SECTION**



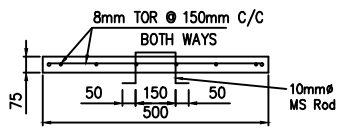
**PLAN**



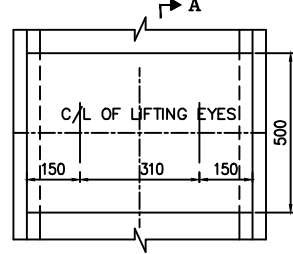
**TYPICAL DETAILS OF SLAB SUPPORT**



**DETAILS OF CONSTRUCTION JOINT**

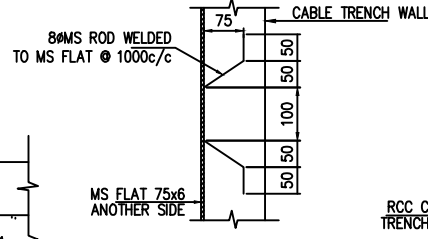


**SECTION A-A**

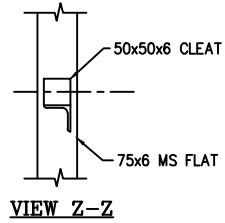


**PLAN**

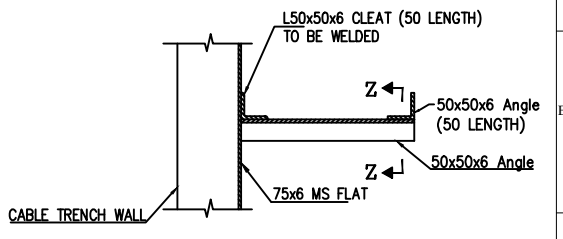
**DETAILS OF COVER SLAB**



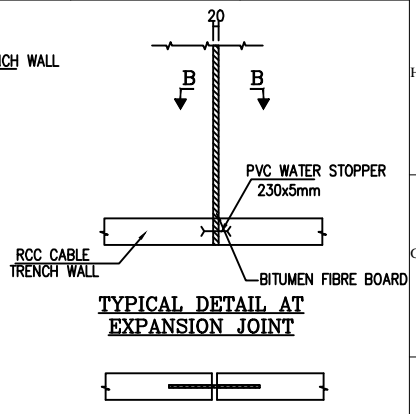
**TYP. DETAIL OF ANCHORING 75x6 MS FLAT**



**VIEW Z-Z**



**TYP. CABLE SUPPORT**




**TYPICAL DETAIL AT EXPANSION JOINT**

**VIEW B-B**

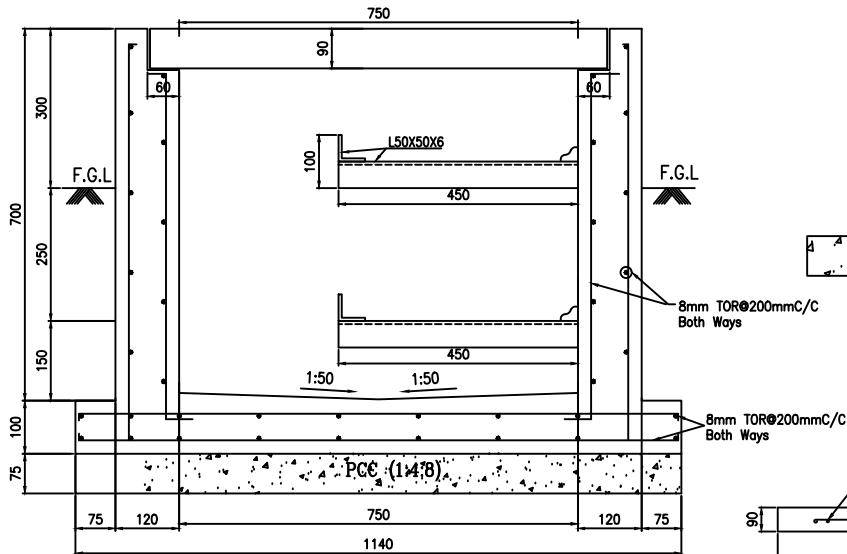
NOTES :-

- 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

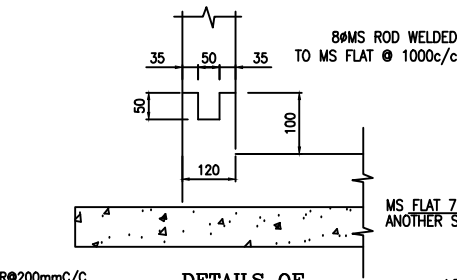
FOR TENDER PURPOSE ONLY

 <b>आर ई सी</b> <b>REC</b> <small>सर्वोत्तम बिजली, सर्वोत्तम विकास</small> <small>Best Energy, Best Development</small>	<b>Rural Electrification Corporation Ltd.</b>	
	<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)	
<b>TITLE:</b> DETAILS OF 500MM WIDE CABLE TRENCH		
SIZE A4	SCALE 1:100	DRG. NO. REC/DDUGJY/GEN/11A
SHT. NO. 1 OF 1	REV. NO. 0	

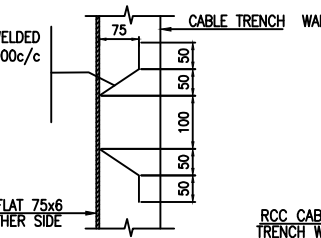
R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



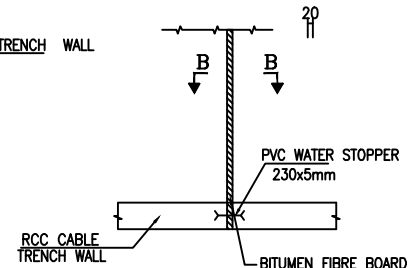
**DETAILS OF CABLE TRENCH SECTION**



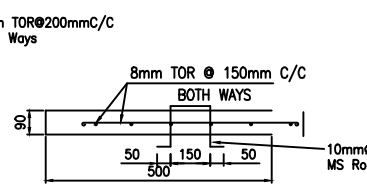
**DETAILS OF CONSTRUCTION JOINT**



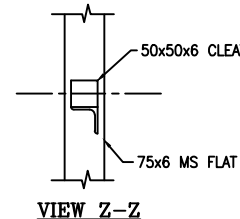
**TYP. DETAIL OF ANCHORING 75x6 MS FLAT**



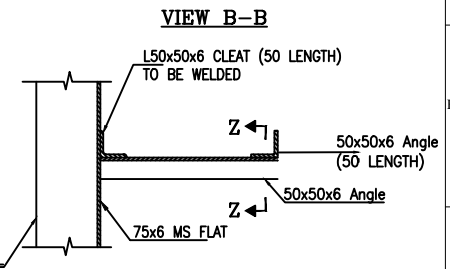
**TYPICAL DETAIL AT EXPANSION JOINT**



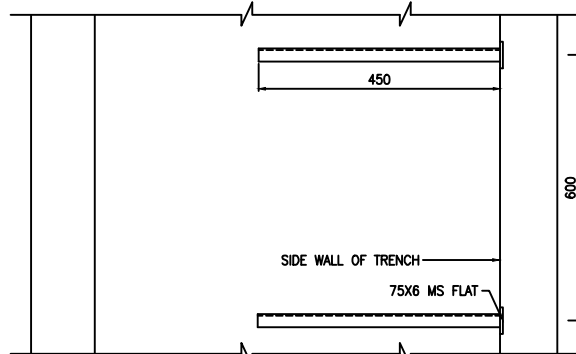
**SECTION A-A**



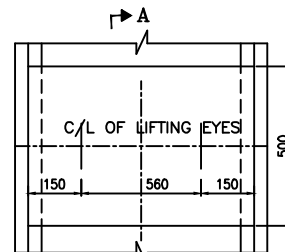
**VIEW Z-Z**



**TYP. CABLE SUPPORT**



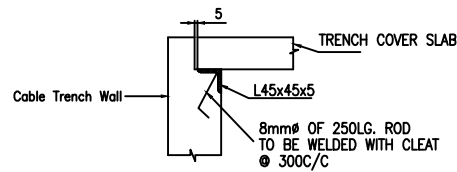
**PLAN**



**DETAILS OF COVER SLAB**

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



**TYPICAL DETAILS OF SLAB SUPPORT**

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

DETAILS OF 750MM WIDE CABLE TRENCH

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

G. I. Stay Wire

Hellically Formed End Fitting

Thimble

Stay Rod

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

Guy -End Assembly  
(Using Hellically Formed Fitting)

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/GEN/12	1 OF 1	0

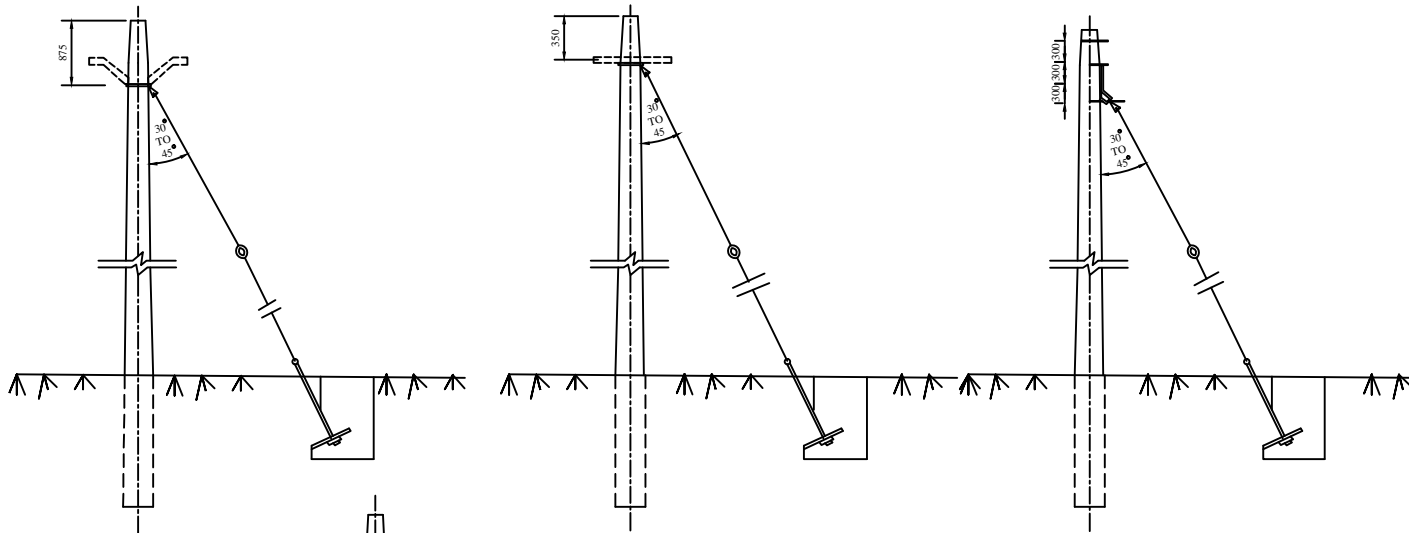
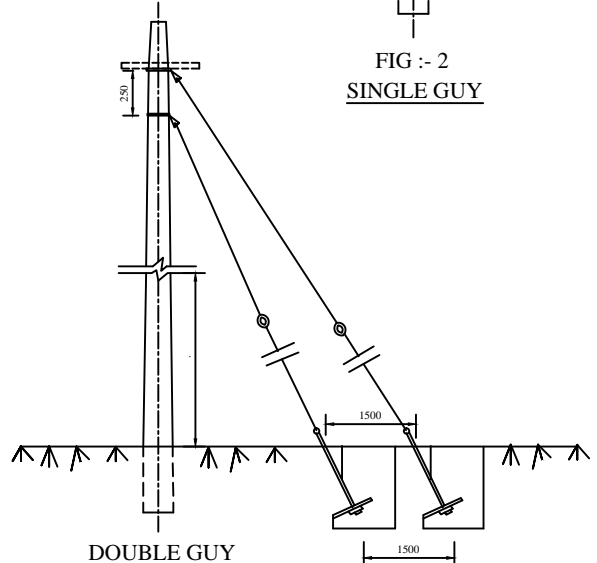


FIG :- 1

FIG :- 2  
SINGLE GUY

FIG :- 3



DOUBLE GUY

**NOTES :-**

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

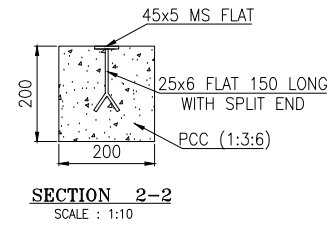
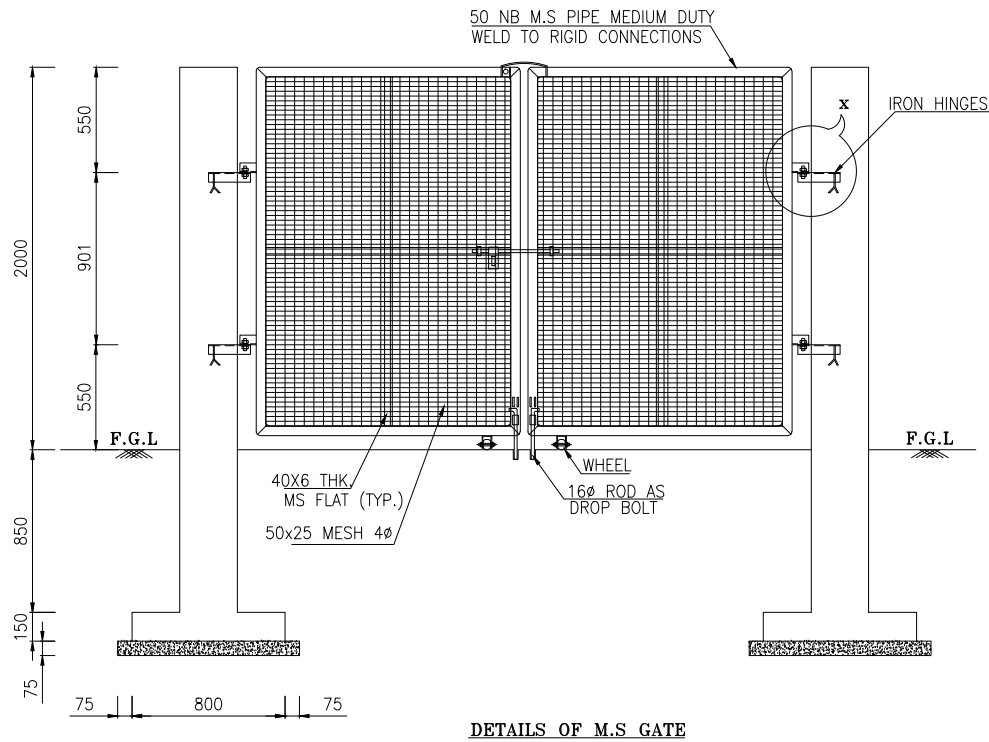
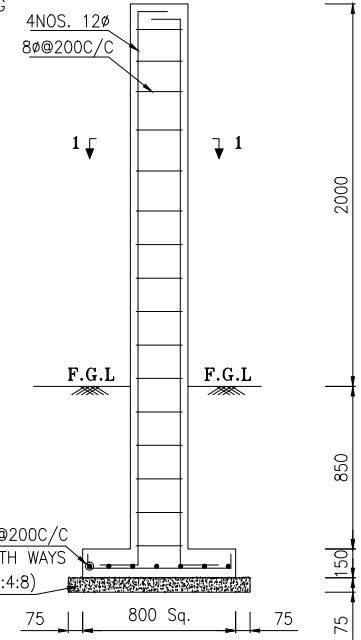
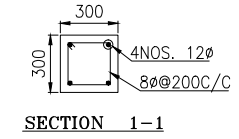
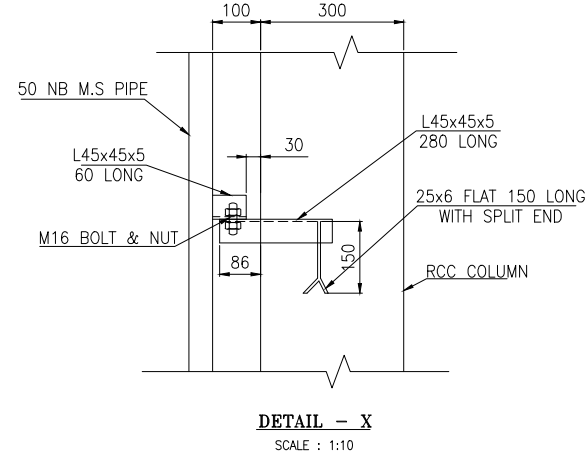
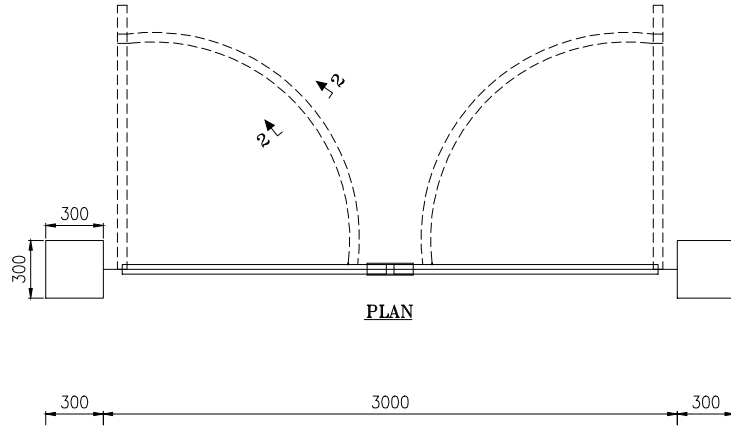
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: Guying Arrangement Single & Double Guy

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





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

**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

**PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

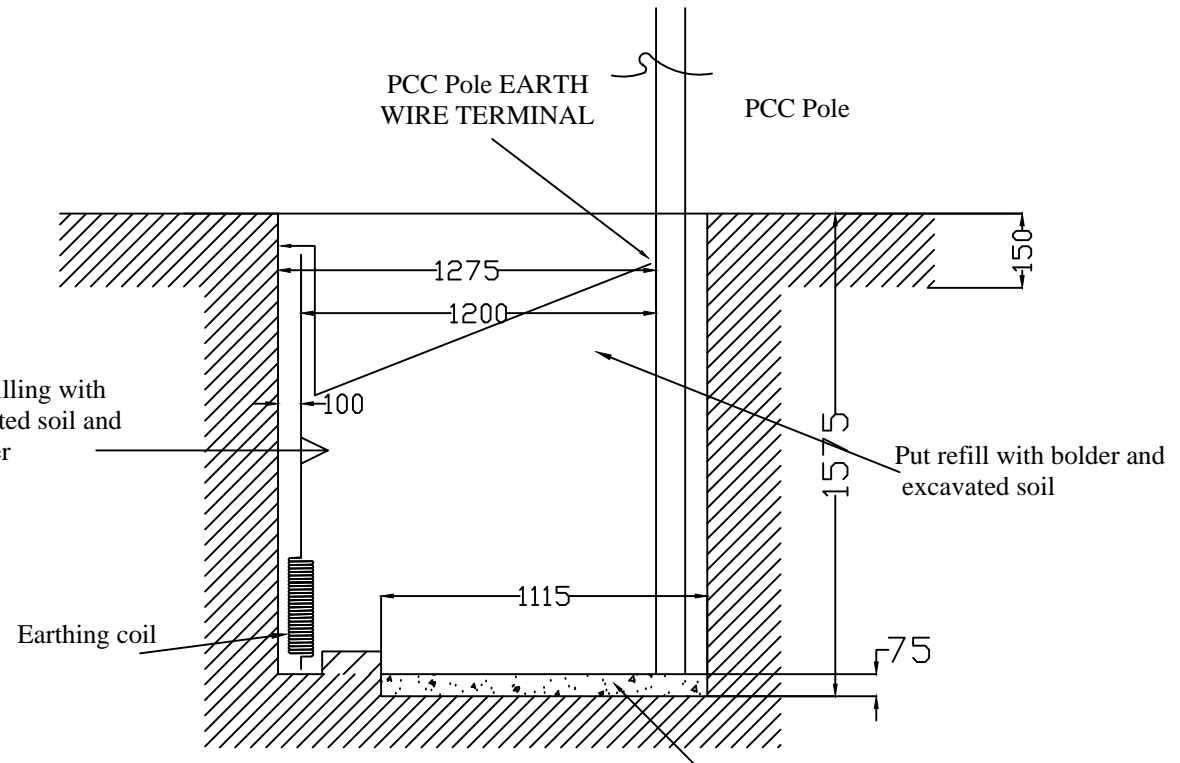
**TITLE: DETAILS OF M.S. GATE**

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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


12 11 10 9 8 7 6 5 4 3 2 1

H G F E D C B A



**BASE PAD**  
For 11 Kv & LT Pole  
Coaching of 0.02 cm or stone  
block of size 450x450x75 mm.

**FOR TENDER PURPOSE ONLY**

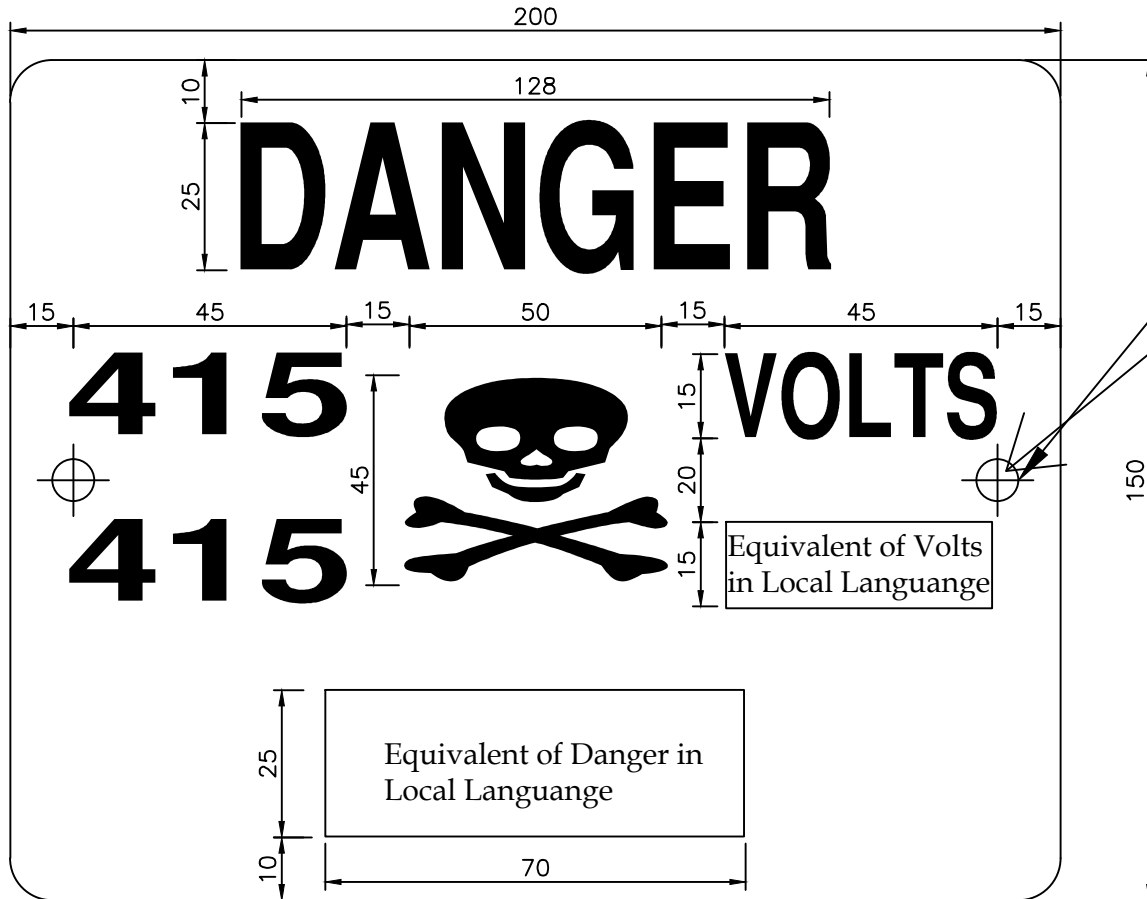
 आर ई सी <b>REC</b> <small>असतो मा सद्गमय, शंभो रघुनाथम्।          Truthness amraya, bhairava raghunatham।</small>	<b>Rural Electrification Corporation Ltd.</b>		
	<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)		
<b>TITLE</b> DRAWING FOR POLE PIT FOR PCC POLE FOR NORMAL SOIL			<b>SHT. NO.</b> 1 OF 1
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/GEN/15	<b>REV. NO.</b> 0

All dimensions are in mm.

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

12 11 10 9 8 7 6 5 4 3 2 1

H G F E D C B A



J QNGU'Ó320 O


**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(IS 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	<math>\pm 0.7</math>
51 TO 100mm	<math>\pm 0.6</math>
101 TO 300mm	<math>\pm 0.5</math>
ABOVE 300mm	<math>\pm 0.4</math>

FOR TENDER PURPOSE ONLY

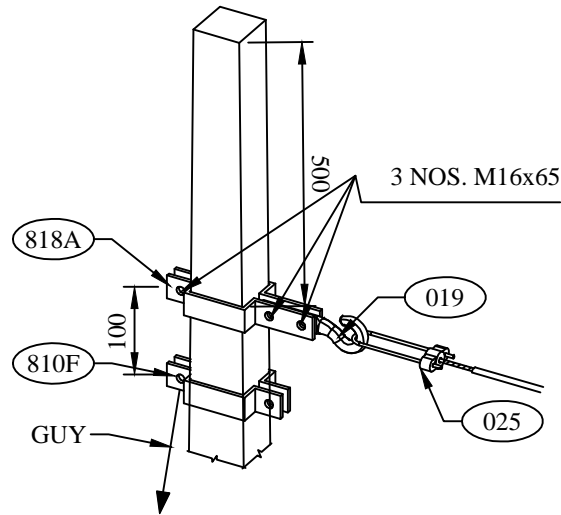
All Dimensions are in mm unless otherwise mentioned

 <small>असीमित ऊर्जा, अत्रय संभवताएं Infinite energy, infinite possibilities</small>	<b>Rural Electrification Corporation Ltd.</b>			
PROJECT: <b>Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)</b>				
TITLE: <b>433V DANGER BOARD</b>				
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/01	1 OF 1	0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

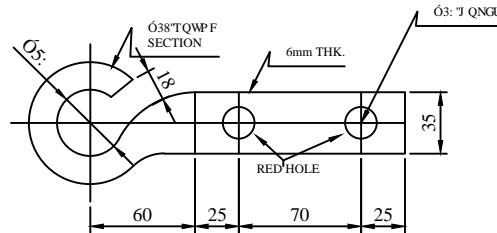
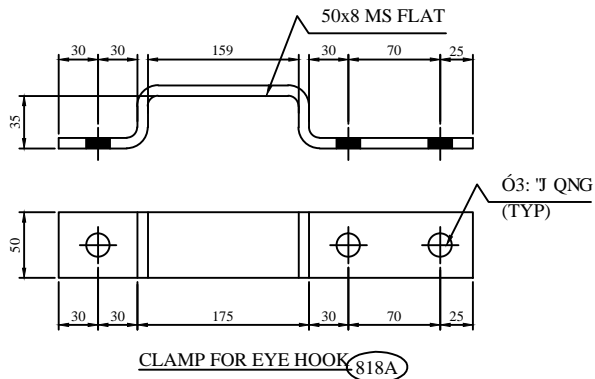






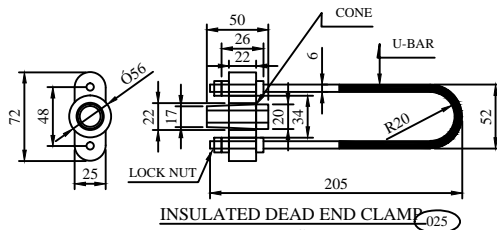
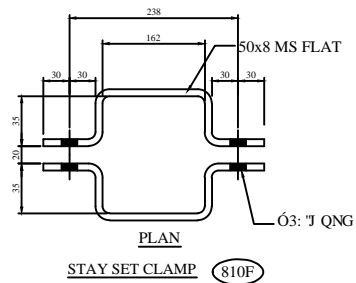
**GENERAL NOTES:**

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- 2) MANUFACTURING TOLERANCE.  
 $\varnothing 720 \pm 0.07$   
 $73 \times 7 \times 3220 \pm 0.07$   
 $323 \times 7 \times 5220 \pm 0.05$   
 $\varnothing 20 \times 5220 \pm 0.04$
- 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:SP6 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

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.	
022	433V DANGER BOARD	1 NO.	
005	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
008	STAY SET ARRANGEMENT	1 SET	REC-XII Plan-GEN-007
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-007
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-007
810F	CLAMP FOR STAY SET	1 SET	REC-XII Plan-LT-015
818A	CLAMP FOR EYE HOOK	1 SET	
019	EYE HOOK	1 NO.	
025	DEAD END CLAMP	1 NO.	
NUTS & BOLTS		AS REQD.	REC-XII Plan-LT-014

BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	TOTAL Wt. KG.	
814M	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO. 0.428	
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	
	SPIKE	6mm ROD	M.S.	125	0.22	56 NOS. 1.54	
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14	2 NOS. 2.700	
019	EYE HOOK					1 NO.	
025	DEAD END CLAMP					1 NO.	
	NUTS & BOLTS	M16		65	0.164KG/NO.	5 NOS. 0.820	
	NUTS & BOLTS	M10		60	0.055KG/NO.	4 NOS. 0.220	
	NUTS & BOLTS	M8		60	0.05KG/NO.	2 NOS. 0.100	
	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.	5 NOS. 0.045	
	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.	4 NOS. 0.012	
	SPRING WASHERS	M8		3.5 THK.	0.002KG/NO.	2 NOS. 0.004	
	PLAIN WASHER	M16		3 THK.	0.015KG/NO.	5 NOS. 0.075	
	PLAIN WASHER	M10		3 THK.	0.005KG/NO.	4 NOS. 0.02	
	PLAIN WASHER	M8		3 THK.	0.004KG/NO.	2 NOS. 0.08	
						TOTAL	10.941

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT: Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

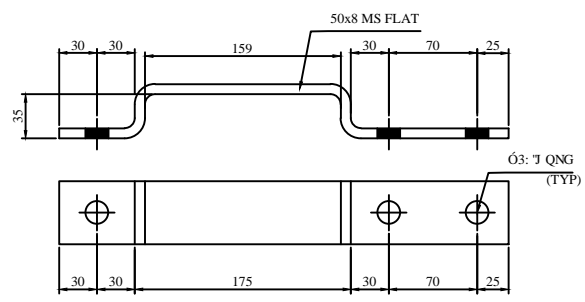
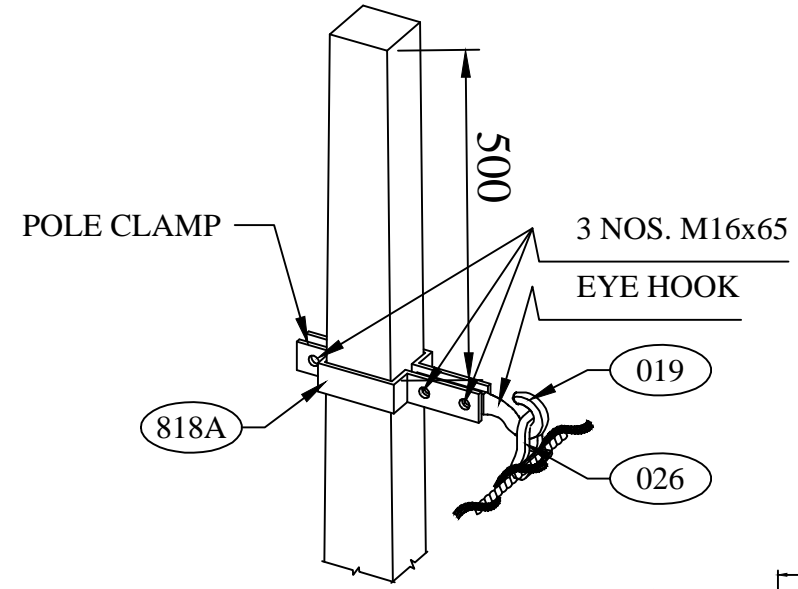
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REC/DDUGJY/LT-OH/03

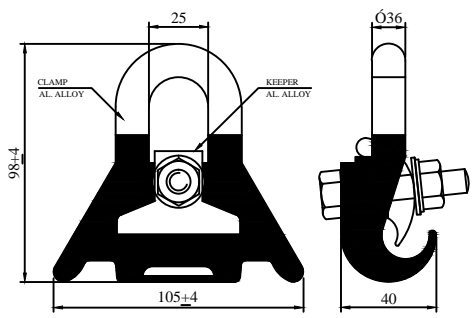
SHT. NO. REV. NO.

1 OF 1 0

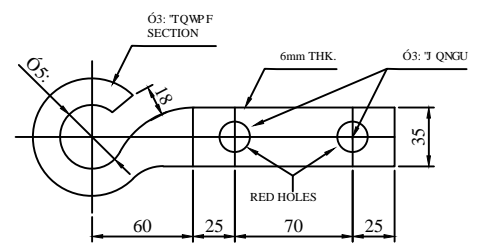
REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT
R0					



CLAMP FOR EYE HOOK (818A)



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



EYE HOOK (019)  
REC  
CONSTRUCTION STANDARD  
E-35

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE.  
 \*RVQ'720 o '7'Ø7'  
 73'VQ'3220 o '7'Ø6'  
 \*223'VQ'5220 o '7'Ø5'  
 CDQXG5220 o '7'Ø4'
  - 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:SP6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.

**BILL OF MATERIAL**

ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
1	8m/200Kg. PSC POLE	1 NO.	REC-XII Plan-GEN-001A
2	BARBED WIRE	3.5 MTR.	
3	433V DANGER BOARD	1 NO.	
4	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-001
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 SET	REC-XII Plan-LT-001
818A	CLAMP FOR EYE HOOK	1 SET	REC-XII Plan-LT-013
019	EYE HOOK	1 NO.	REC-XII Plan-LT-013
026	SUSPENSION CLAMP	1 NO.	REC-XII Plan-LT-013
	NUTS & BOLTS	AS REQD.	

**BILL OF MATERIAL**

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	kG./mtr.	QTY.	TOTAL Wt. KG.
814M	CLAMP FOR DANGER BOARD	30x3	M.S.	610	0.701	1 NO.	0.428
816	TOP CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	395	1.60	2 NOS.	1.264
817	BOTTOM CLAMP FOR ANTI CLAMP DEVICE	40x5	M.S.	413	1.60	2 NOS.	1.322
	SPIKE	6mm ROD	M.S.	125	0.22	56 NOS.	1.540
818A	CLAMP FOR EYE HOOK	50x8	M.S.	430	3.14	2 NOS.	2.700
019	EYE HOOK					1 NO.	
026	SUSPENSION CLAMP					1 NO.	
	NUTS & BOLTS	M16		65	0.164KG/NO.	3 NOS.	0.492
	NUTS & BOLTS	M10		60	0.055KG/NO.	4 NOS.	0.220
	NUTS & BOLTS	M8		60	0.05KG/NO.	2 NOS.	0.100
	SPRING WASHERS	M16		3.5 THK.	0.009KG/NO.	3 NOS.	0.027
	SPRING WASHERS	M10		3.5 THK.	0.003KG/NO.	4 NOS.	0.012
	SPRING WASHERS	M8		3.5 THK.	0.002KG/NO.	2 NOS.	0.004
	PLAIN WASHER	M16		3 THK.	0.015KG/NO.	3 NOS.	0.045
	PLAIN WASHER	M10		3 THK.	0.005KG/NO.	4 NOS.	0.020
	PLAIN WASHER	M8		3 THK.	0.004KG/NO.	2 NOS.	0.080
	<b>TOTAL</b>						<b>8.254</b>

FOR TENDER PURPOSE ONLY

**Rural Electrification Corporation Ltd.**

PROJECT: Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

SIZE: A3 NTS

SCALE: NTS

DRG. NO.: REC/DDUGJY/LT-OH/04

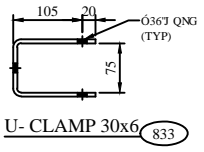
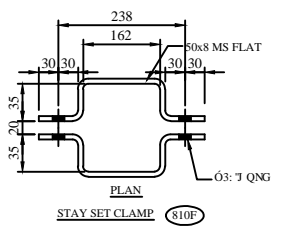
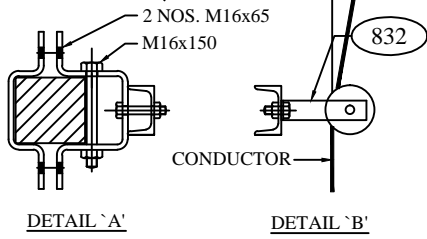
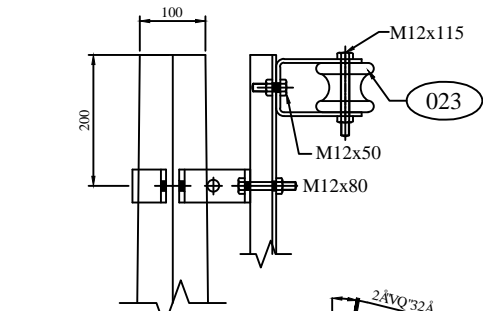
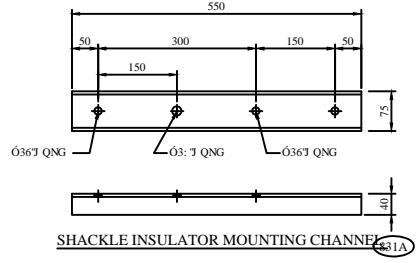
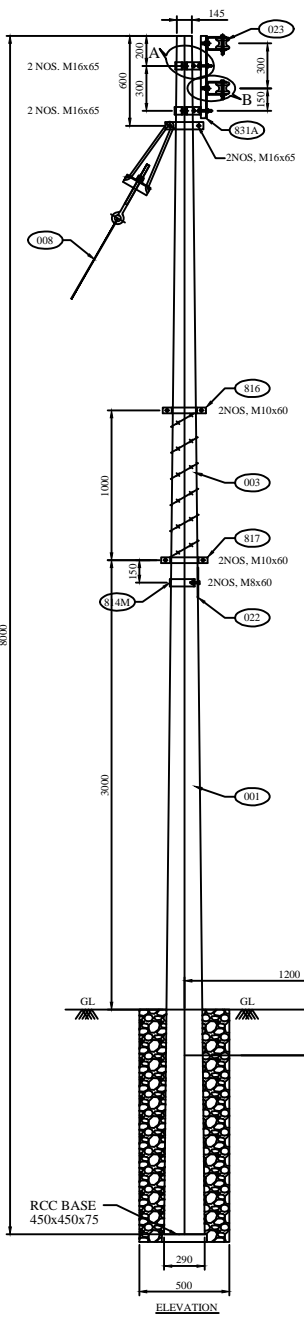
SHT. NO.: 1 OF 1

REV. NO.: 0

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







BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	8M/200kg. PSC POLE	1 NO.	REC-XII Plan-GEN-001A
003	BARBED WIRE	3.5MTR	
005	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
008	STAY SET ARRANGEMENT	1 SET	
022	415V DANGER BOARD	1 NO.	
023	LT SHACKLE INSULATOR (TYPE-1)	2 NOS.	
831A	SHACKLE INSULATOR MOUNTING CHANNEL	1 NO.	REC-XII Plan-LT-011
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-001
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-001
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-001
810F	STAY SET CLAMP	1 SET	REC-XII Plan-LT-011
832	CLAMP FOR SHACKLE INSULATOR CHANNEL	2 SET	REC-XII Plan-LT-011
833	U-CLAMP FOR SHACKLE INSULATOR	2 NOS.	REC-XII Plan-LT-011

BILL OF MATERIAL							
ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	kG./mtr.	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.	0.428
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
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
						<b>TOTAL</b>	<b>16.081</b>

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	6 NOS.	0.984	
NUTS & BOLTS	M12		115	0.134	2 NOS.	0.268	
NUTS & BOLTS	M12		80	0.102	2 NOS.	0.204	
NUTS & BOLTS	M12		50	0.075	2 NOS.	0.150	
NUTS & BOLTS	M10		60	0.055	4 NOS.	0.220	
NUTS & BOLTS	M8		60	0.050	2 NOS.	0.100	
SPRING WASHERS	M16	3.5 THK.	0.009	0.009	8 NOS.	0.072	
SPRING WASHERS	M12	3.5 THK.	0.009	0.009	6 NOS.	0.054	
SPRING WASHERS	M10	3.5 THK.	0.003	0.003	4 NOS.	0.012	
SPRING WASHERS	M8	3.5 THK.	0.002	0.002	2 NOS.	0.004	
PLAIN WASHER	M16	3 THK.	0.015	0.015	8 NOS.	0.120	
PLAIN WASHER	M12	3 THK.	0.015	0.015	6 NOS.	0.090	
PLAIN WASHER	M10	3 THK.	0.005	0.005	4 NOS.	0.020	
PLAIN WASHER	M8	3 THK.	0.004	0.004	2 NOS.	0.080	
						<b>TOTAL</b>	<b>2.976</b>

FOR TENDER PURPOSE ONLY

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE  
WRO720 ± 7°07'  
78°Q3220 ± 7°06'  
323°VQ3220 ± 7°05'  
CDQXG75220 ± 7°04'
  - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
  - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
  - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
  - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
  - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.



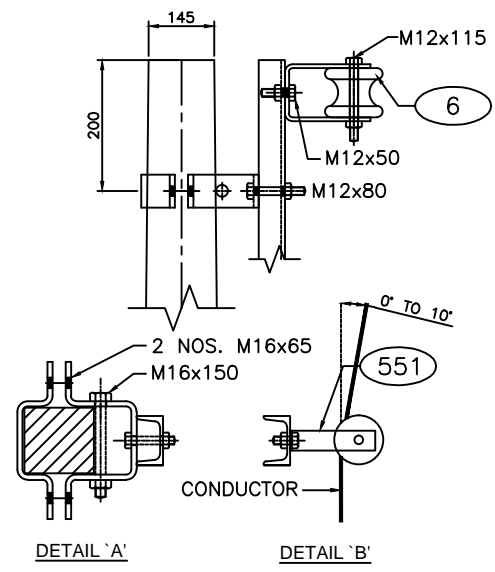
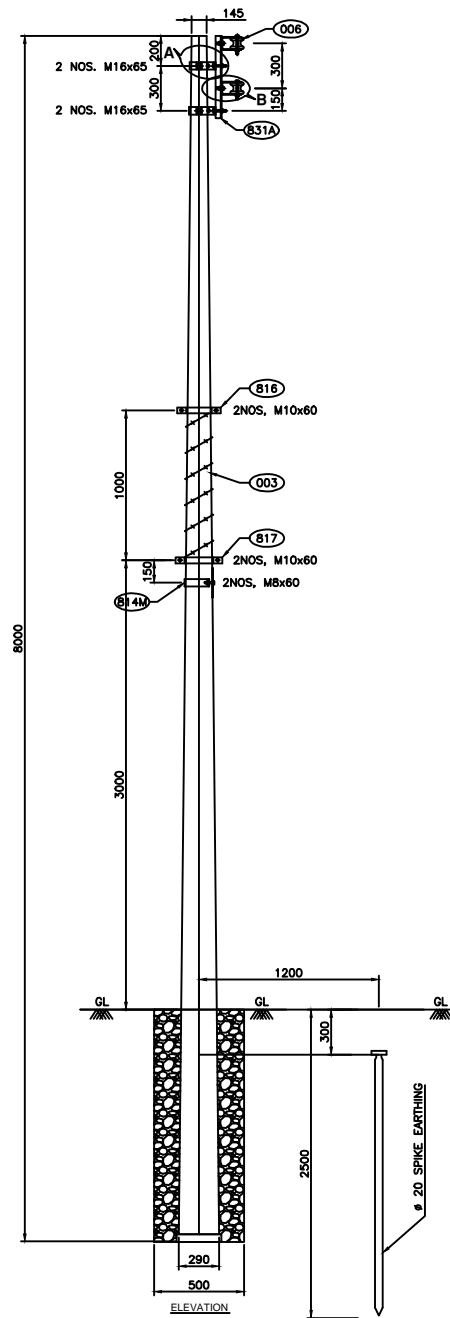
Rural Electrification Corporation Ltd.

PROJECT: Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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.
A3 NTS	REC/DDUGJY/LT-OH/06	1 OF 1	0


REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



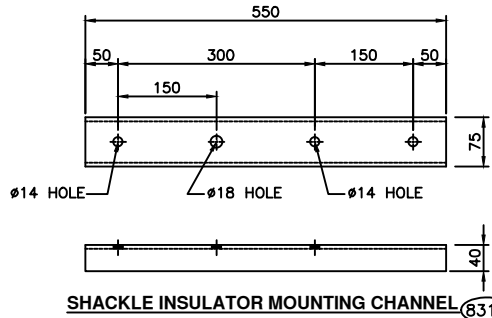
BILL OF MATERIAL			
ERE CODE	DESCRIPTION	QTY.	REF. DRG. NO.
001	8m/200Kg. PSC POLE	1 NO.	REC-XII Plan-GEN-001A
003	BARBED WIRE	3.5 MTR	
005	SPIKE EARTHING	1 SET	REC-XII Plan-GEN-012
022	415V DANGER BOARD	1 NO.	
006	LT SHACKLE INSULATOR (TYPE-1)	2 NOS.	
831A	SHACKLE INSULATOR MOUNTING CHANNEL	1 NO.	REC-XII Plan-LT-010
814M	CLAMP FOR DANGER BOARD	1 NO.	REC-XII Plan-LT-010
816	TOP CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-010
817	BOTTOM CLAMP FOR ANTI CLIMBING DEVICE	1 NO.	REC-XII Plan-LT-010
832	TOP CLAMP FOR SHACKLE INSULATOR CHANNEL	1 SET	REC-XII Plan-LT-010
833	U-CLAMP FOR SHACKLE INSULATOR	2 NOS.	REC-XII Plan-LT-010

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE  
 WRVQ 720 o 7'07'  
 73'VQ 3220 o 7'06'  
 323'VQ 5220 o 7'05'  
 CDQXG 5220 o 7'04'
  - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
  - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
  - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
  - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
  - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.

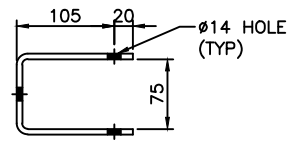
FOR TENDER PURPOSE ONLY

 <b>आर ई सी</b> <b>REC</b> <small>असतो मा सद्गमय</small> <small>Lead us from the unreal to the real</small>	<b>Rural Electrification Corporation Ltd.</b>			
<b>PROJECT:</b> Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> GA OF LT LINE VERTICAL FORMATION ON SINGLE 8M/200 kG PSC POLE (IN LINE ARRANGEMENT) 1Ph, 2WIRE				
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/LT-OH/07A	<b>SHT. NO.</b> 1 OF 2	<b>REV. NO.</b> 0

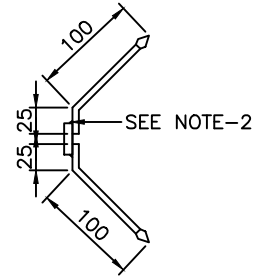
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



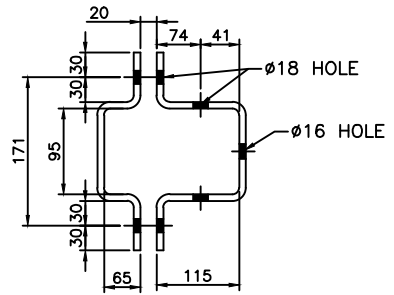
SHACKLE INSULATOR MOUNTING CHANNEL (831A)



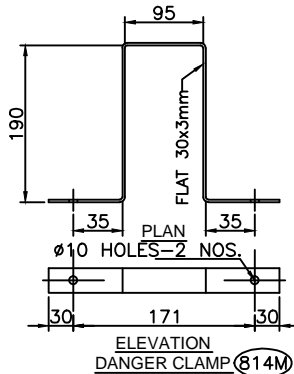
U-CLAMP 30x6 (833)



6mm ROD SPIKE SECTION A-A



CLAMP FOR SHACKLE INSULATOR CHANNEL (832)



ELEVATION DANGER CLAMP (814M)


- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
  - 2) MANUFACTURING TOLERANCE  
WRVQ'720 o "U'6'  
73"VQ'3220 o "U'6'  
323"VQ'5220 o "U'5'  
CDQXG'5220 o "U'4'
  - 3) ALL M.S. PARTS SHALL CONFORM TO IS:2062
  - 4) ALL M.S. FABRICATED ITEMS SHALL BE HOT DIP GALVANISED AS PER IS:2629 & 4759
  - 5) ALL THE ITEMS SHALL BE MARKED WITH ERECTION CODE.
  - 6) WEIGHT MENTIONED IS FOR PACKING & FORWARDING PURPOSE.
  - 7) ALL CLAMPS AND ANGLES SHALL CONFORM TO IS:SP 6 PART-1. ALL CHANNELS SHALL BE ISLC CHANNELS.

BILL OF MATERIAL

ERE CODE	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	KG./mtr.	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	M12		50	0.075	2 NOS.	0.150
NUTS & BOLTS	M10		60	0.055	4 NOS.	0.220
NUTS & BOLTS	M8		60	0.050	2 NOS.	0.100
SPRING WASHERS	M16		3.5 THK.	0.009	6 NOS.	0.054
SPRING WASHERS	M12		3.5 THK.	0.009	6 NOS.	0.054
SPRING WASHERS	M10		3.5 THK.	0.003	4 NOS.	0.012
SPRING WASHERS	M8		3.5 THK.	0.002	2 NOS.	0.004
PLAIN WASHER	M16		3 THK.	0.015	6 NOS.	0.090
PLAIN WASHER	M12		3 THK.	0.015	6 NOS.	0.090
PLAIN WASHER	M10		3 THK.	0.005	4 NOS.	0.020
PLAIN WASHER	M8		3 THK.	0.004	2 NOS.	0.080
TOTAL						2.600

FOR TENDER PURPOSE ONLY



**Rural Electrification Corporation Ltd.**

PROJECT: Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

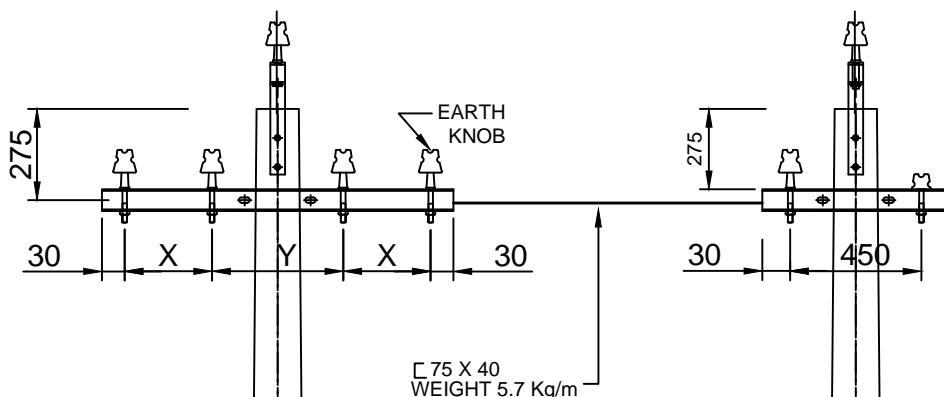
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DRG. NO.: REC/DDUGJY/LT-OH/7B

SHT. NO.: 2 OF 2

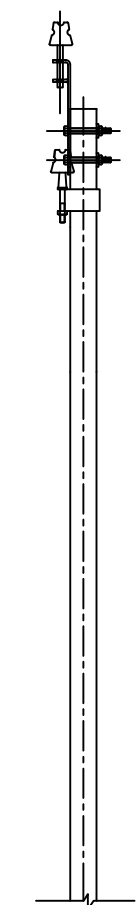
REV. NO.: 0

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



3 PHASE  
5 WIRE  
ELEVATION

1 PHASE  
3 WIRE  
ELEVATION



END VIEW

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

TANGENT LOCATION  
MAXIMUM SPAN-57 MTRS.

**FOR TENDER PURPOSE ONLY**



Rural Electrification Corporation Ltd.

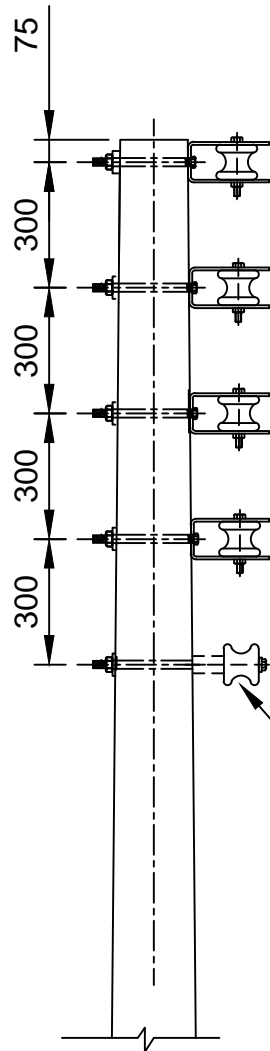
PROJECT:  
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

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

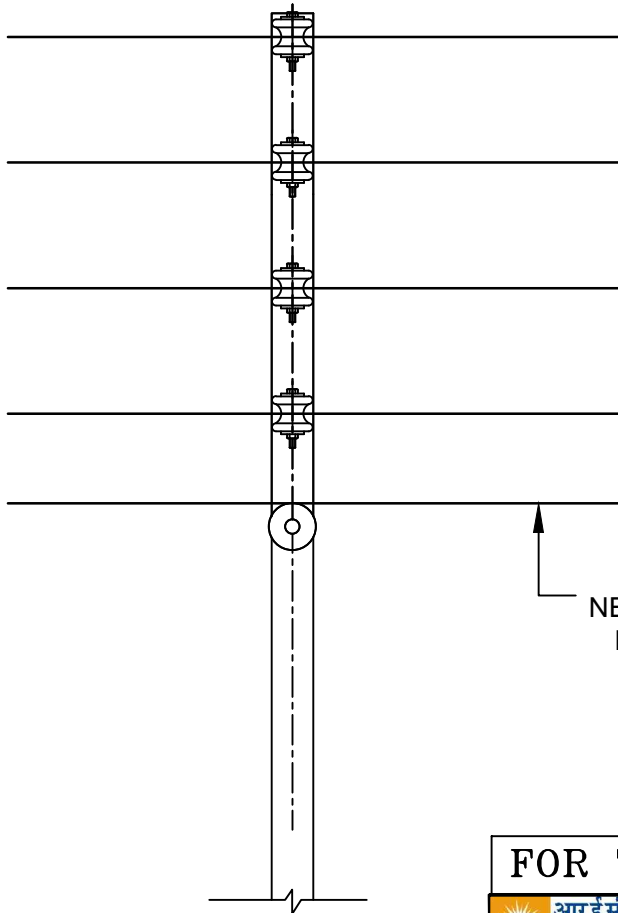
SIZE	SCALE	DRG. NO.
A3	NTS	REC/DDUGJY/LT-OH/08

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



EARTH  
KNOB

ELEVATION



NETURAL CUM  
EARTH WIRE

END VIEW

**FOR TENDER PURPOSE ONLY**



Rural Electrification Corporation Ltd.

PROJECT:

**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

415 240V LINES CONDUCTOR FORMATION AND  
CLEARANCES Vertical Formation

SIZE

SCALE

**A3 NTS**

DRG. NO.

**REC/DDUGJY/LT-OH/09**

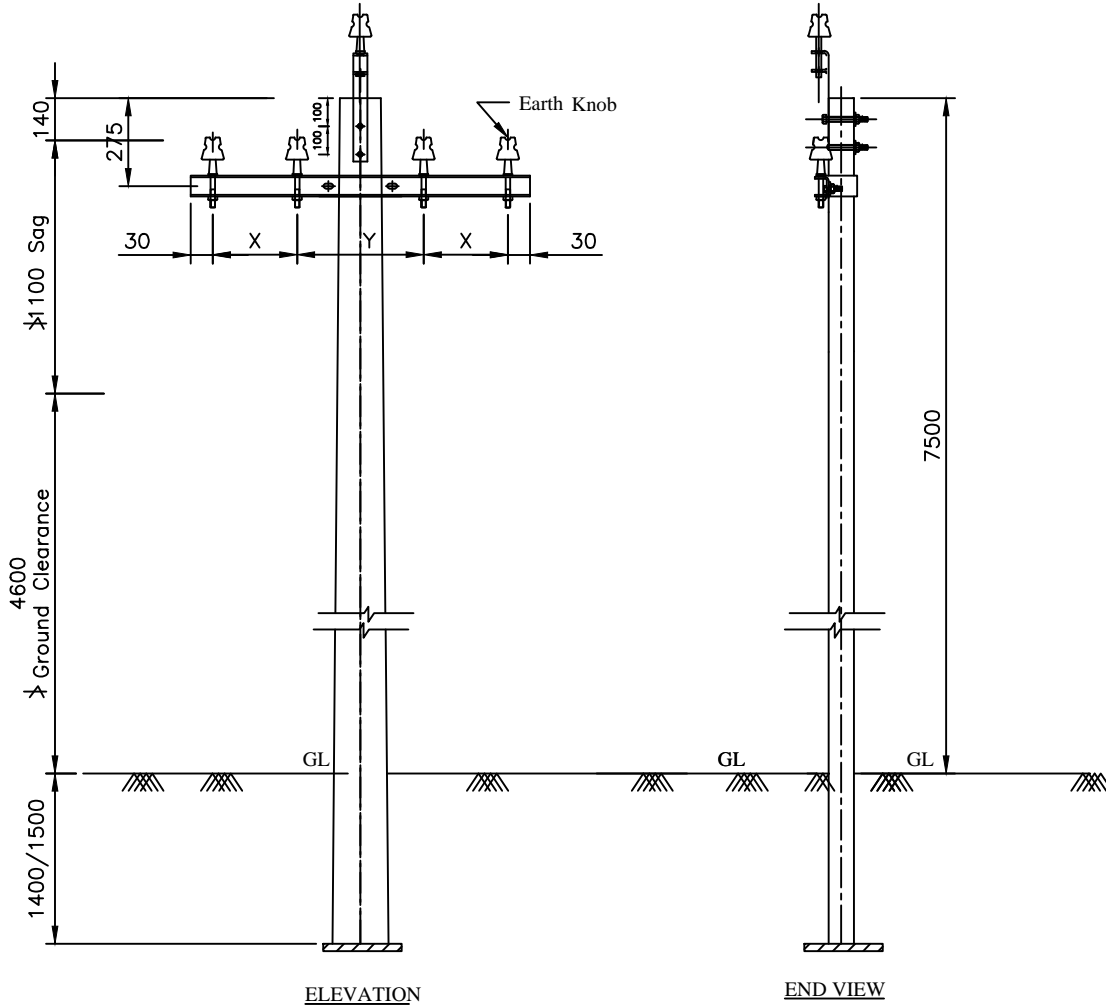
SHT. NO.

1 OF 1

REV. NO.

0

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



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 $\phi$	4 No.

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

FOR TENDER PURPOSE ONLY

Tangent Location  
Maximum Span-67 Mtr.

Note:- All Dimension are in mm.

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



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE:

415/240V Line Supports Horizontal Formation

SIZE SCALE

DRG. NO.

**A3 NTS**

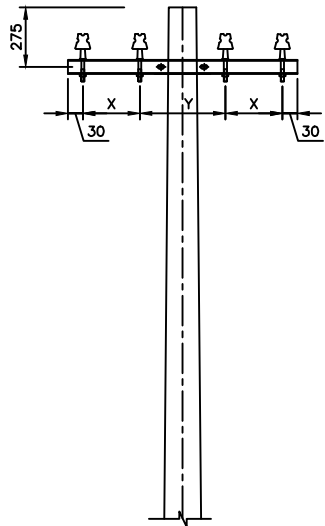
REC/DDUGJY/LT-OH/10

SHT. NO.

1 OF 1

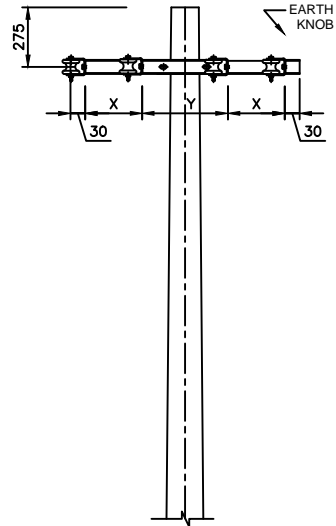
REV. NO.

0

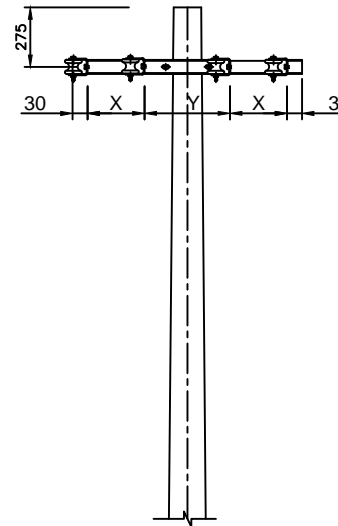


(A)  
Figure-1

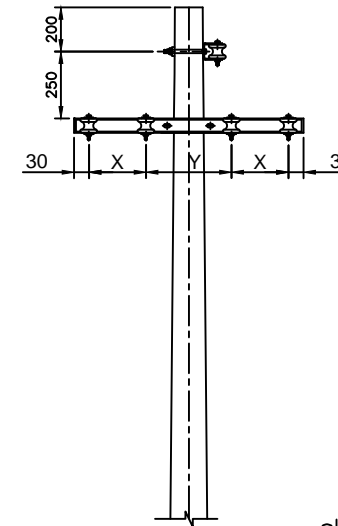
UP TO  $\Delta 10^\circ$  for 7/2-11 mm & 7/2.59 ACSR  
UP TO  $\Delta 5^\circ$  for 7/23.35 mm ACSR



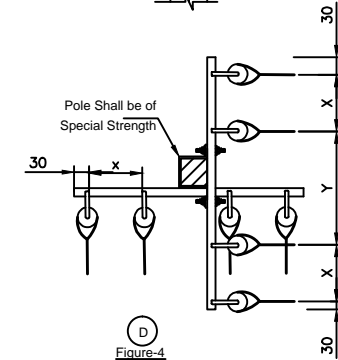
(B)  
Figure-2  
 $\Delta 10^\circ$  TO  $30^\circ$



(C)  
Figure-3  
 $\Delta 30^\circ$  TO  $60^\circ$



(D)  
Figure-4  
 $\Delta 60^\circ$  TO  $90^\circ$



Horizontal Spacing	
x	y
300	450

All Dimension are in mm.

**FOR TENDER PURPOSE ONLY**



Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/11	1 OF 1	0

REV. NO.	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 $\phi$ 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:**

**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

**TITLE:**

415/240V Line Conductor Formation And Clearances  
3 $\phi$ .4W (Horizontal Formation)

**SIZE SCALE**

**DRG. NO.**

**A3 NTS**

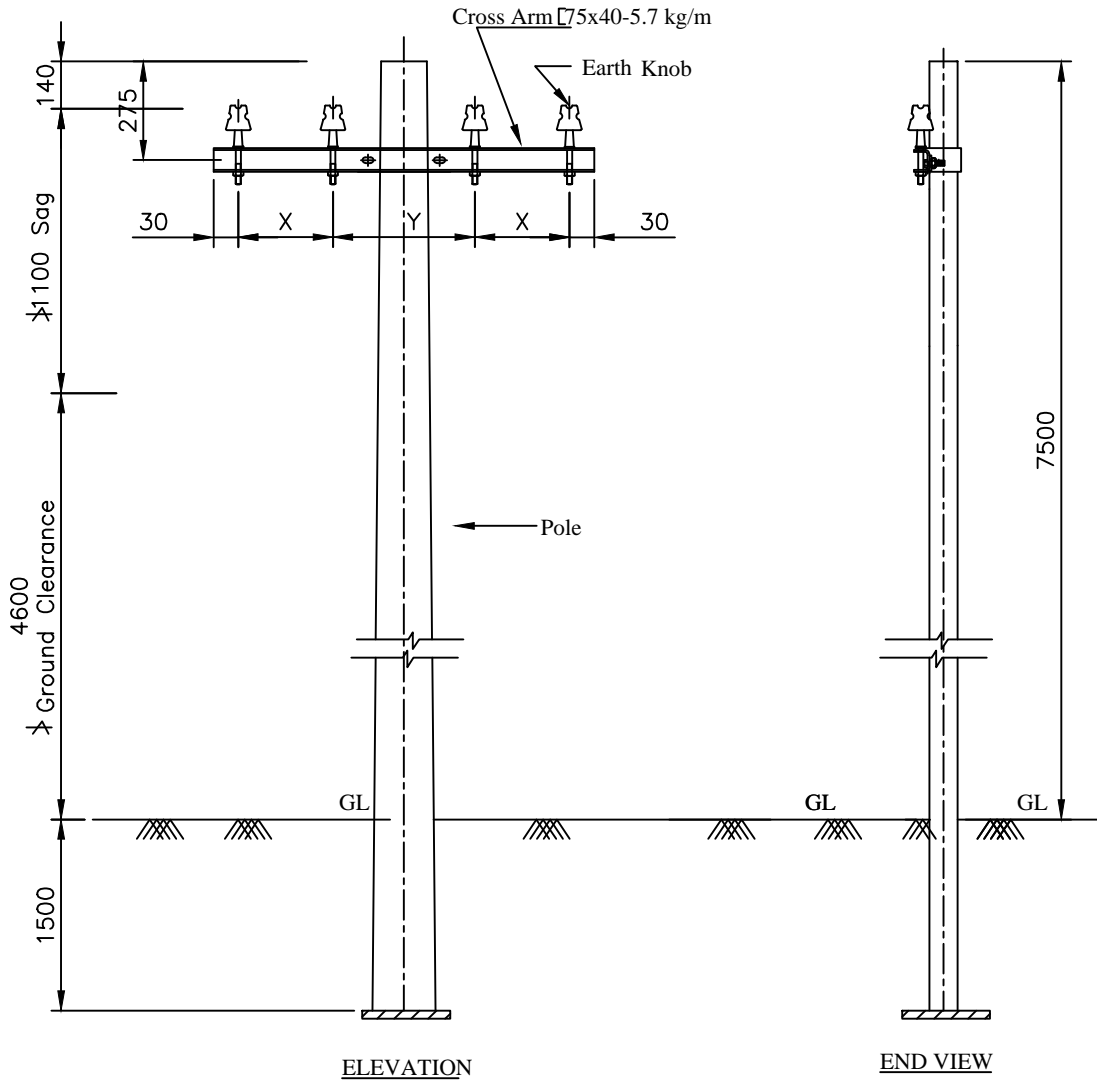
**REC/DDUGJY/LT-OH/12**

**SHT. NO.**

1 OF 1

**REV. NO.**

0



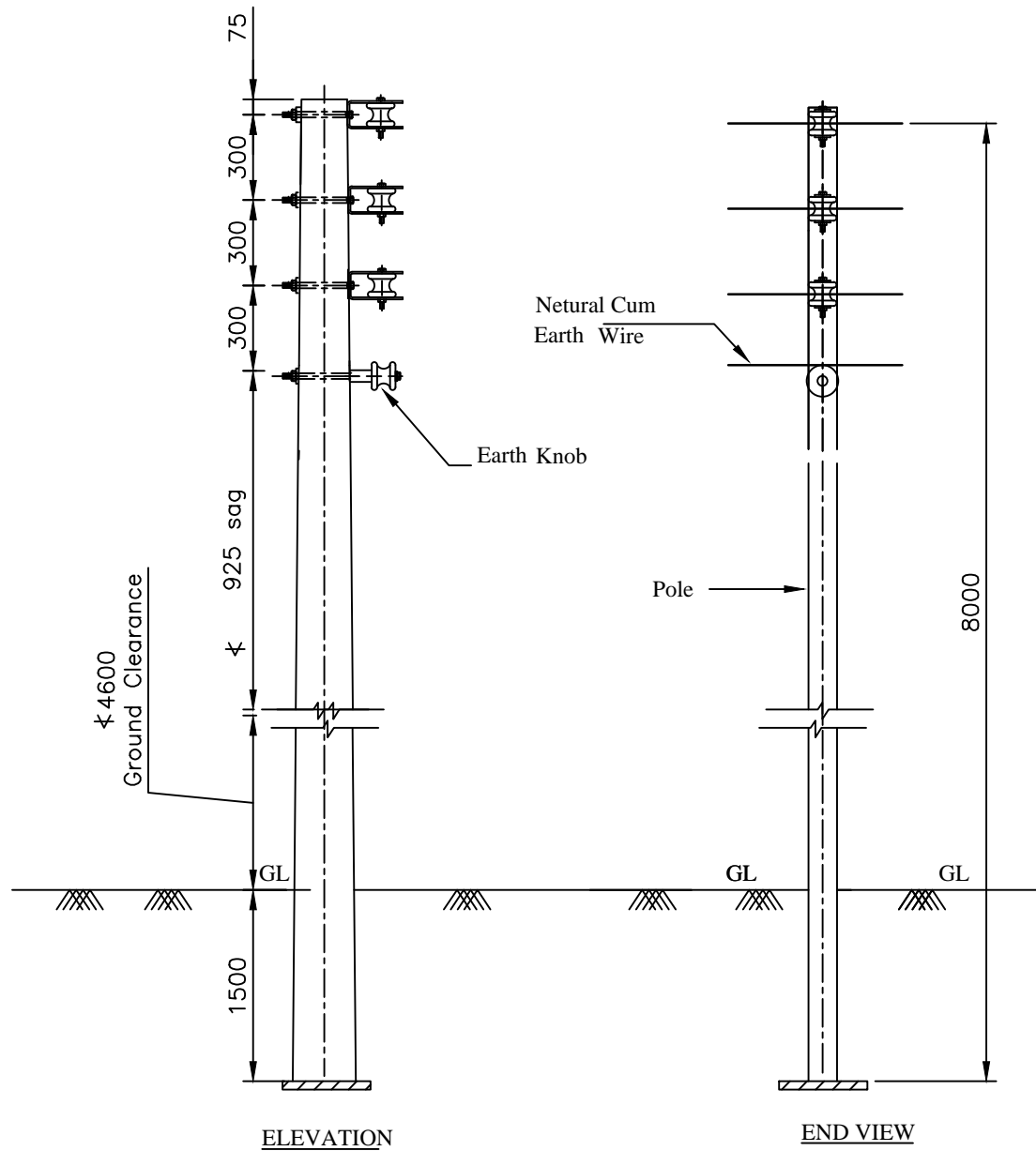
Note:- All Dimension are in mm.

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



## Bill of Material

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



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE:

415/240V Line Conductor Formation And Clearances  
3 $\phi$ .4W (Vertical Formation)

SIZE SCALE

DRG. NO.

SHT. NO.

REV. NO.

**A3 NTS**

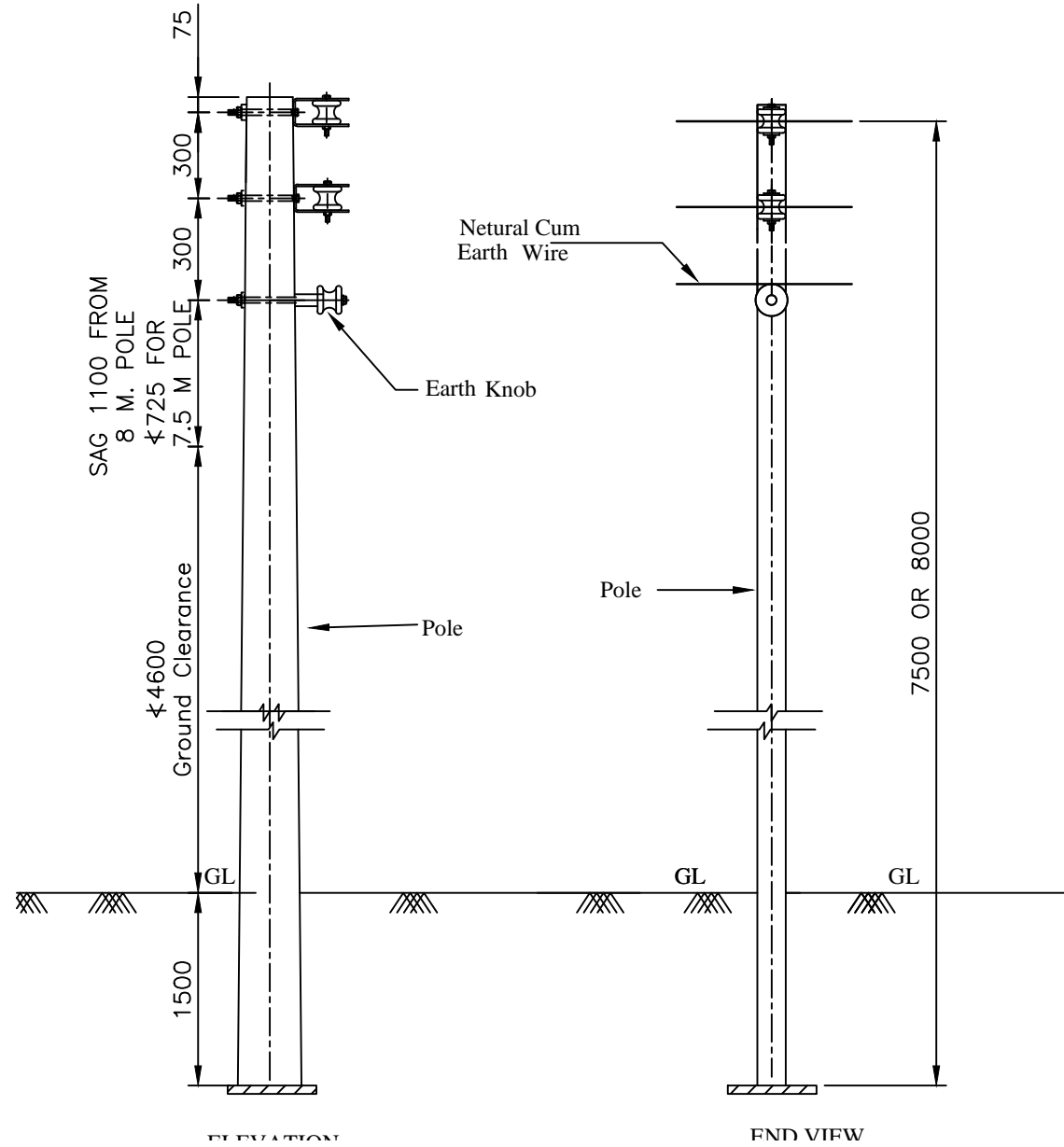
REC/DDUGJY/LT-OH/13

1 OF 1

0

Note:- All Dimension are in mm.

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



SAG 1100 FROM  
8 M. POLE  
4725 FOR  
7.5 M POLE

4600  
Ground Clearance

1500  
GL

ELEVATION

Neutral Cum  
Earth Wire

Earth Knob

Pole

Pole

7500 OR 8000

END VIEW

Bill of Material

8 M Supports	1 No.
U- Clamp	2 Nos.
Shackle Insulators	2 Nos.
Earth Knob	1 No.
Bolt 16 $\phi$ with Nuts	3 No.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE:

415/240V Line Conductor Formation And Clearances  
1 $\phi$ .3W (Vertical Formation)

SIZE SCALE

DRG. NO.

A3 NTS

REC/DDUGJY/LT-OH/14

SHT. NO.

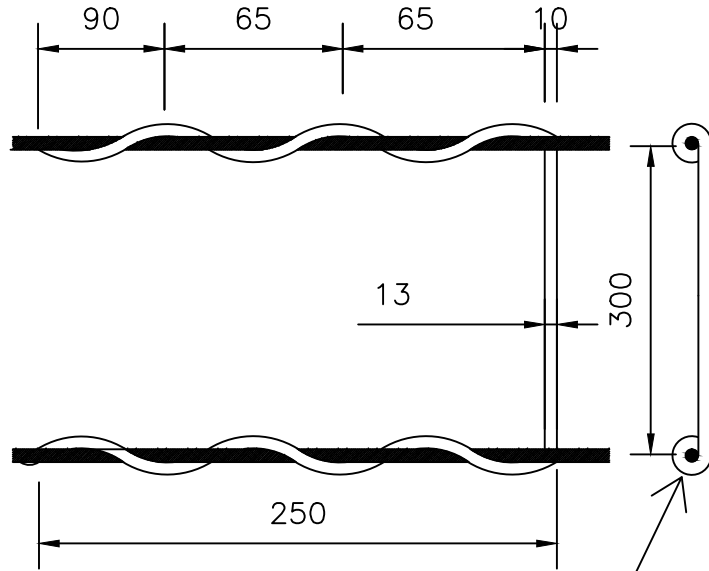
1 OF 1

REV. NO.

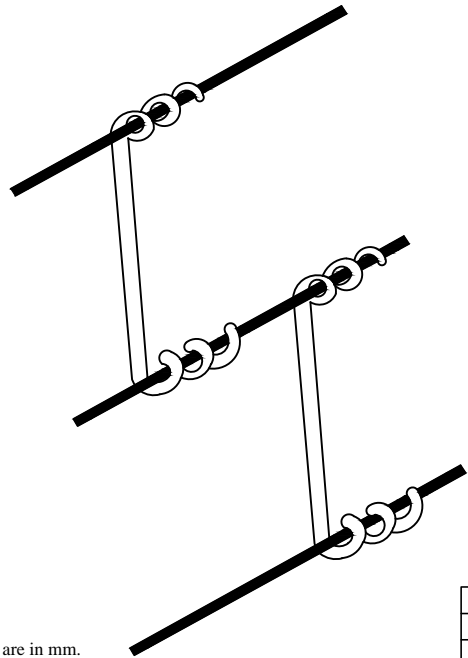
0

Note:- All Dimension are in mm.

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



6mm. Dia Sprial Hole  
( To Grip AAC/ACSR  
Conductor From  
7/ 2.11 To 7/ 3.35 mm)



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

Note:- All Dimension are in mm.

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 Speciments shall Not Show Any Deformity, And After Cooling ,shall Have A Minimum Tensile Strength of 375 Kg/Cm(500 Kg For 13mm Dia Spacer)

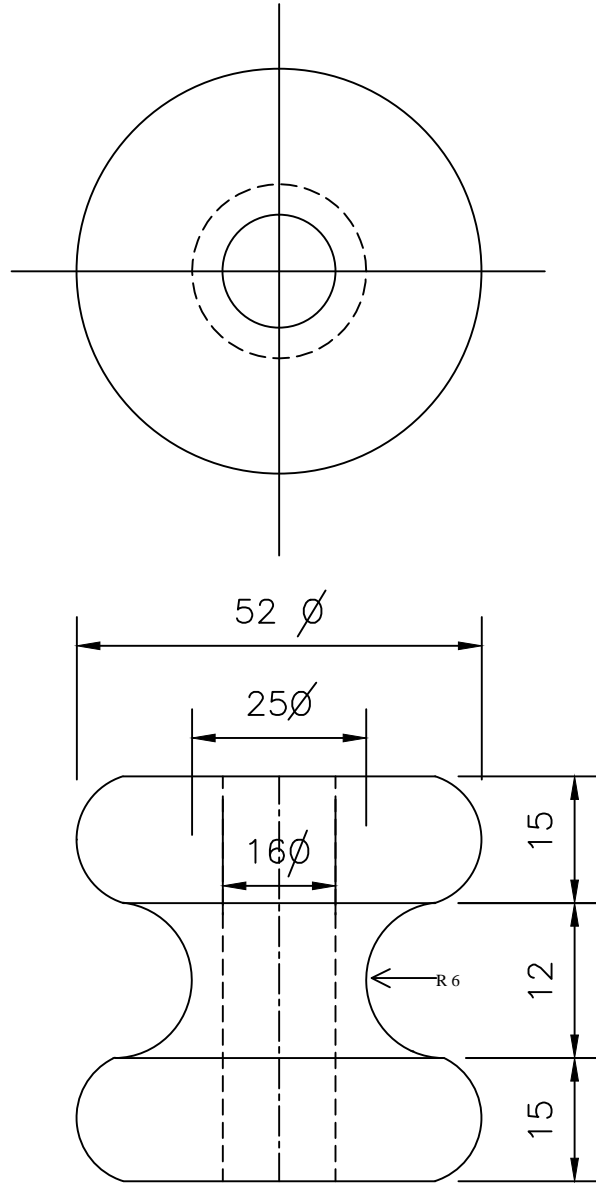
NOTE:-

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**

		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b>		Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
<b>TITLE:</b>		L.T Lines PVC Spacer		
<b>SIZE</b> A3	<b>SCALE</b> NTS	<b>DRG. NO.</b> REC/DDUGJY/LT-OH/15	<b>SHT. NO.</b> 1 OF 1	<b>REV. NO.</b> 0

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



Note:- All Dimension are in mm.

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

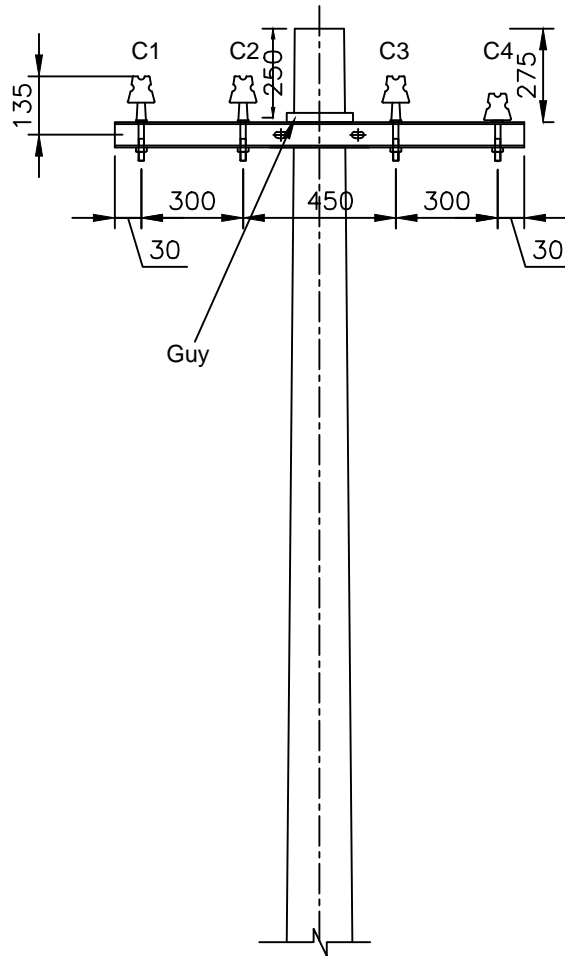
PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

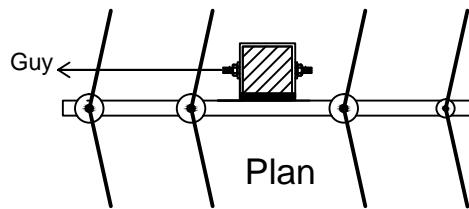
TITLE:

Earth Knob For L.T Line

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
						A3	NTS	REC/DDUGJY/LT-OH/16	1 OF 1	0



Elevation



Plan

**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:**

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

**TITLE:**

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

SIZE SCALE

DRG. NO.

SHT. NO.

REV. NO.

**A3 NTS**

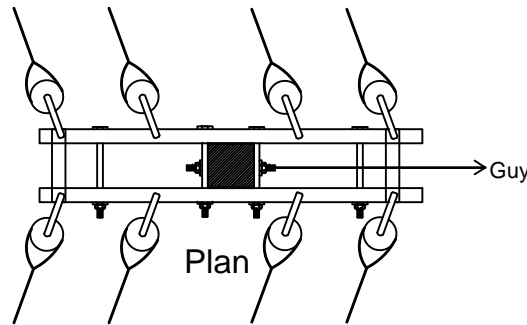
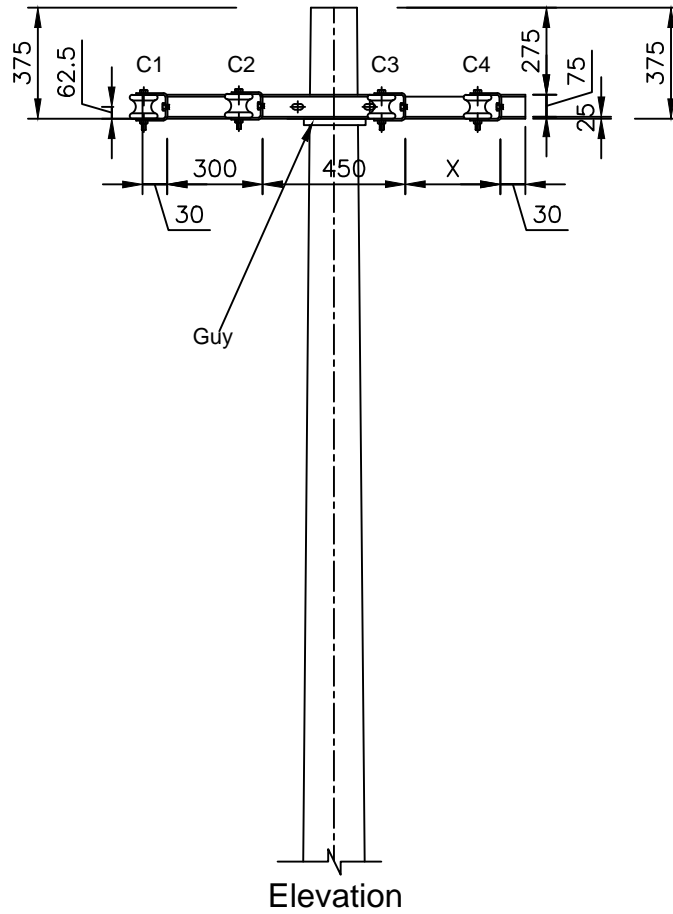
**REC/DDUGJY/LT-OH/17**

**1 OF 1**

**0**

Note:- All Dimension are in mm.

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



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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE:

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

SIZE SCALE

DRG. NO.

REC/DDUGJY/LT-OH/18

SHT. NO.

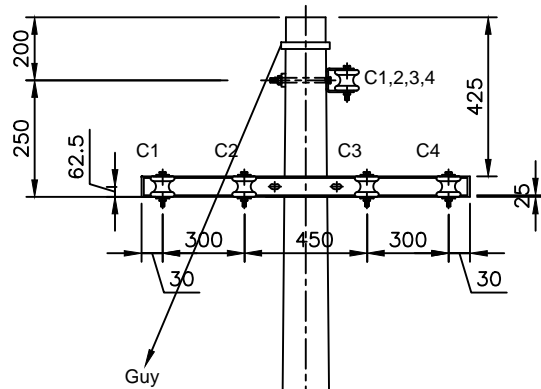
1 OF 1

REV. NO.

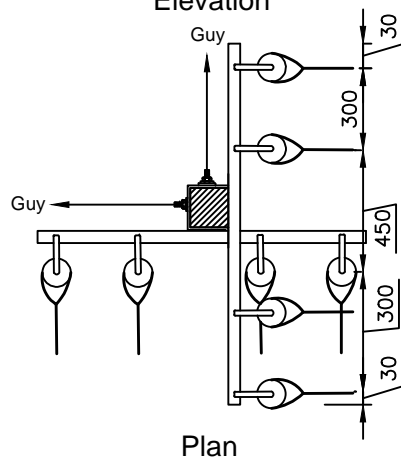
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Note:- All Dimension are in mm.

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



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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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.

SHT. NO.

REV. NO.

A3 NTS

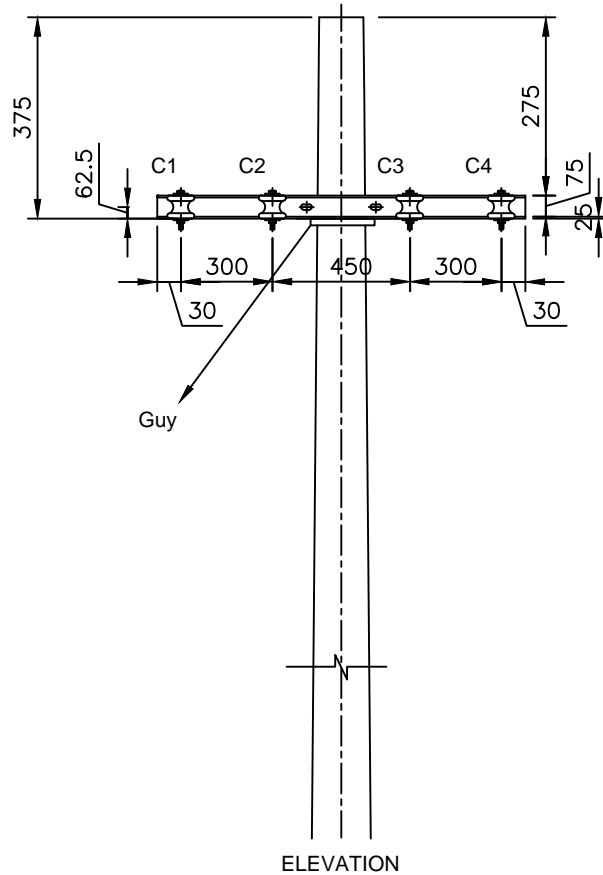
REC/DDUGJY/LT-OH/19

1 OF 1

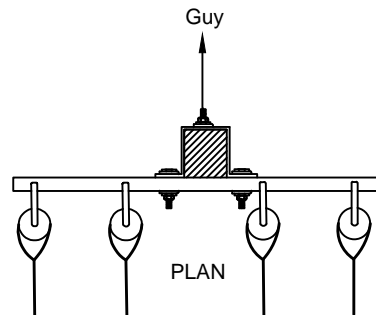
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Note:- All Dimension are in mm.

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



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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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/DDUGJY/LT-OH/20

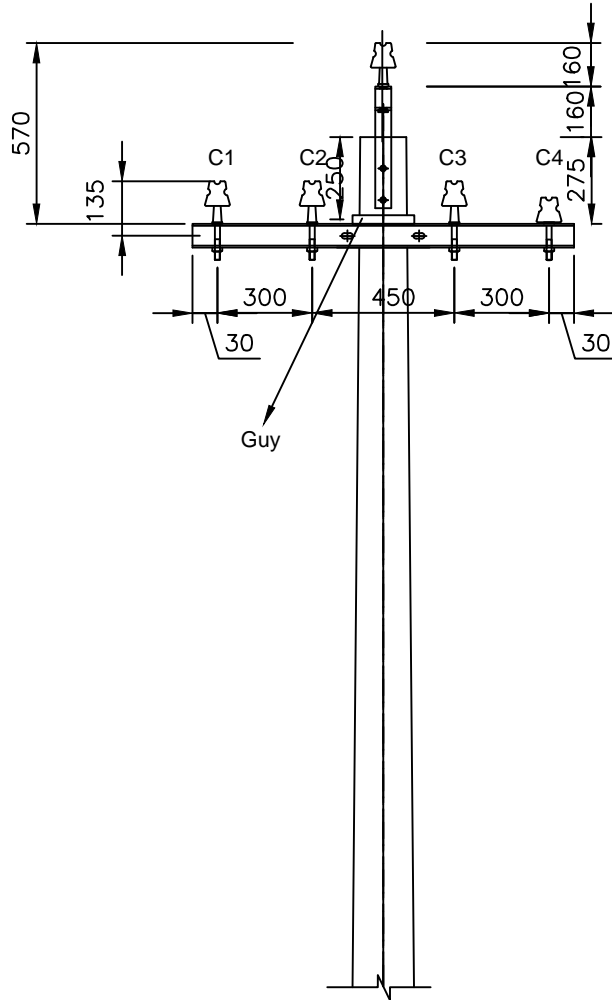
1 OF 1

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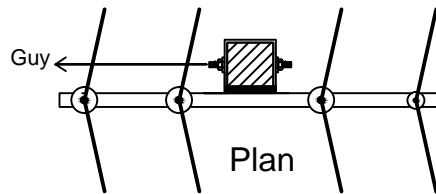
Note:- All Dimension are in mm.

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





Elevation



Plan

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



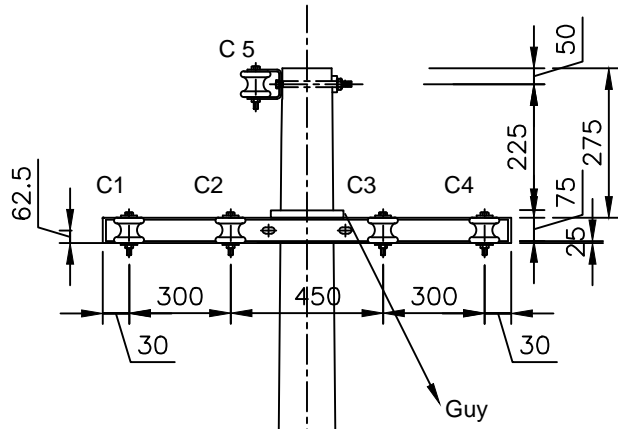
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

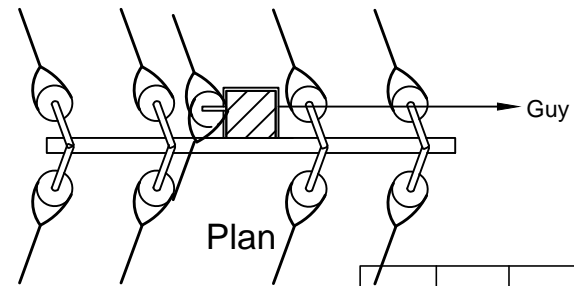
TITLE: 415V/240V Lines Conductor Formation And Arrangement of Guys For 0° TO 10° Angle Locations(3-Phase,4Wire,Horizontal Formation)

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/21	1 OF 1	0

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



Elevation



Plan

Note:- All Dimension are in mm.


NOTES:-

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

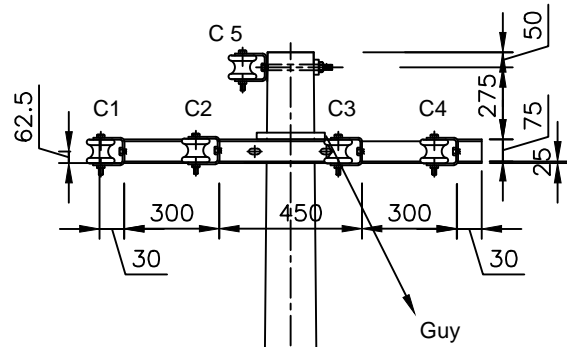
NOTATIONS:-

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

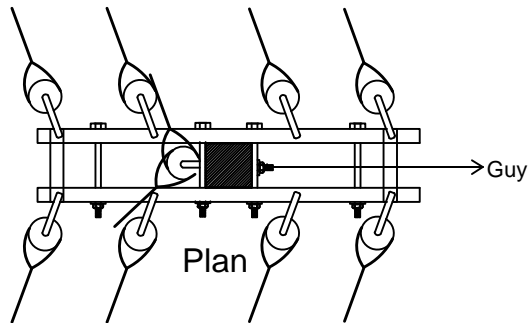
FOR TENDER PURPOSE ONLY

 <b>आर ई सी</b> <b>REC</b> <small>असीमित ऊर्जा, असीम संभावनाएं</small> <small>infinite energy, infinite possibilities</small>		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> 415V/240V Lines Conductor Formation And Arrangement of Guys For 10° TO 30° Angle Locations(3-Phase,5Wire,Horizontal Formation)				
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/22	1 OF 1	0

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



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:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE:

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

SIZE

SCALE

A3 NTS

DRG. NO.

REC/DDUGJY/LT-OH/23

SHT. NO.

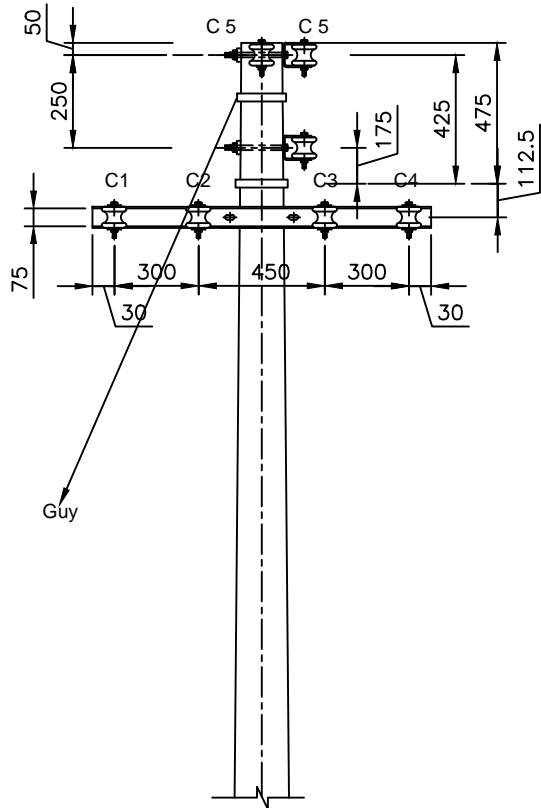
1 OF 1

REV. NO.

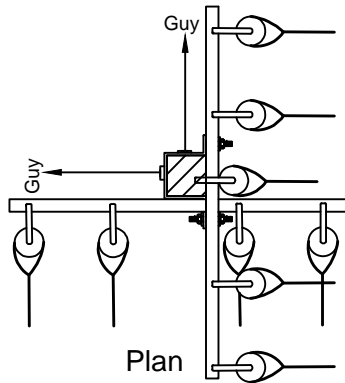
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Note:- All Dimension are in mm.

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



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.

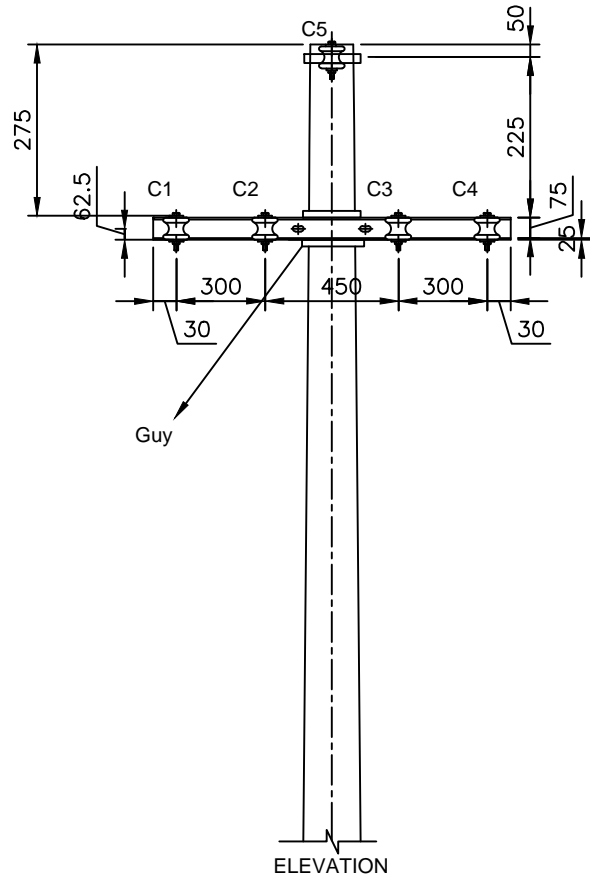
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

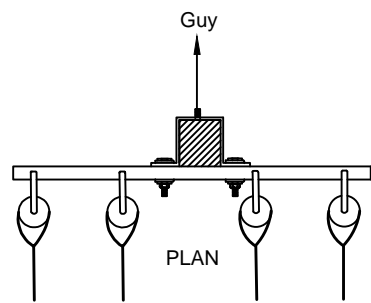
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/24	1 OF 1	0

Note:- All Dimension are in mm.

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



ELEVATION



PLAN

Note:- All Dimension are in mm.

NOTES:-

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

NOTATIONS:-

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

FOR TENDER PURPOSE ONLY

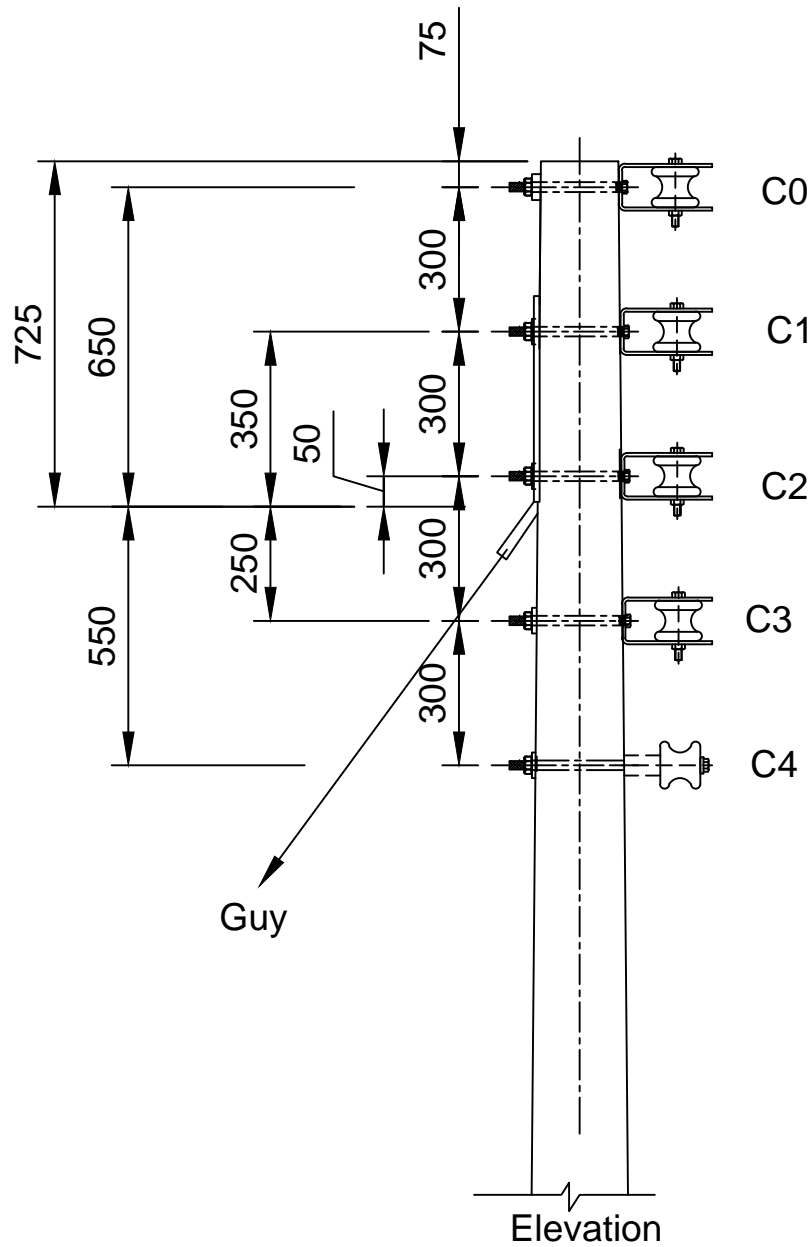


Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

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



**NOTES:-**

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

**NOTATIONS:-**

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

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

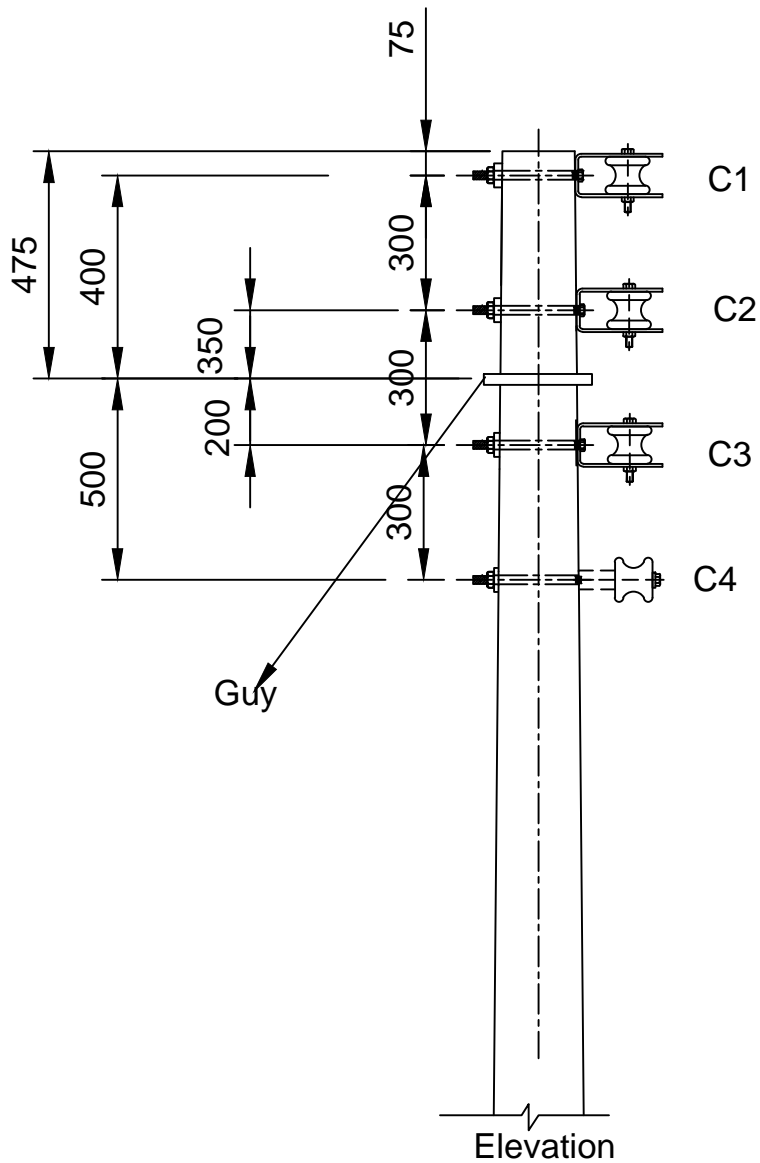
**PROJECT:** Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/26	1 OF 1	0

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

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:**

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

**TITLE:**

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

**SIZE**

**SCALE**

DRG. NO.

**SHT. NO.**

**REV. NO.**

**A3 NTS**

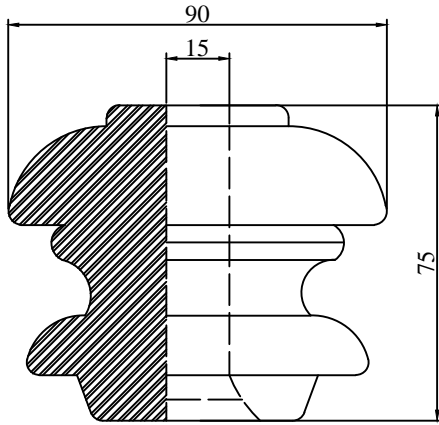
REC/DDUGJY/LT-OH/27

1 OF 1

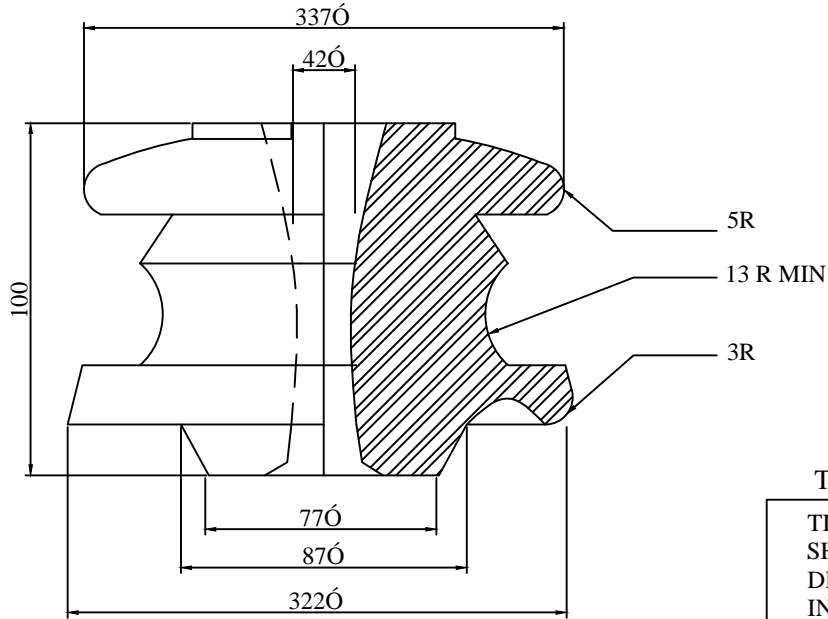
0

Note:- All Dimension are in mm.

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



**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.**

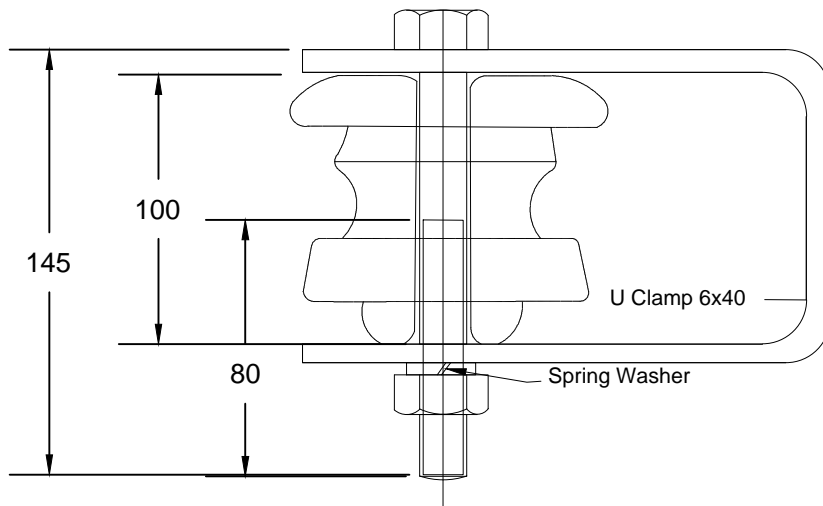
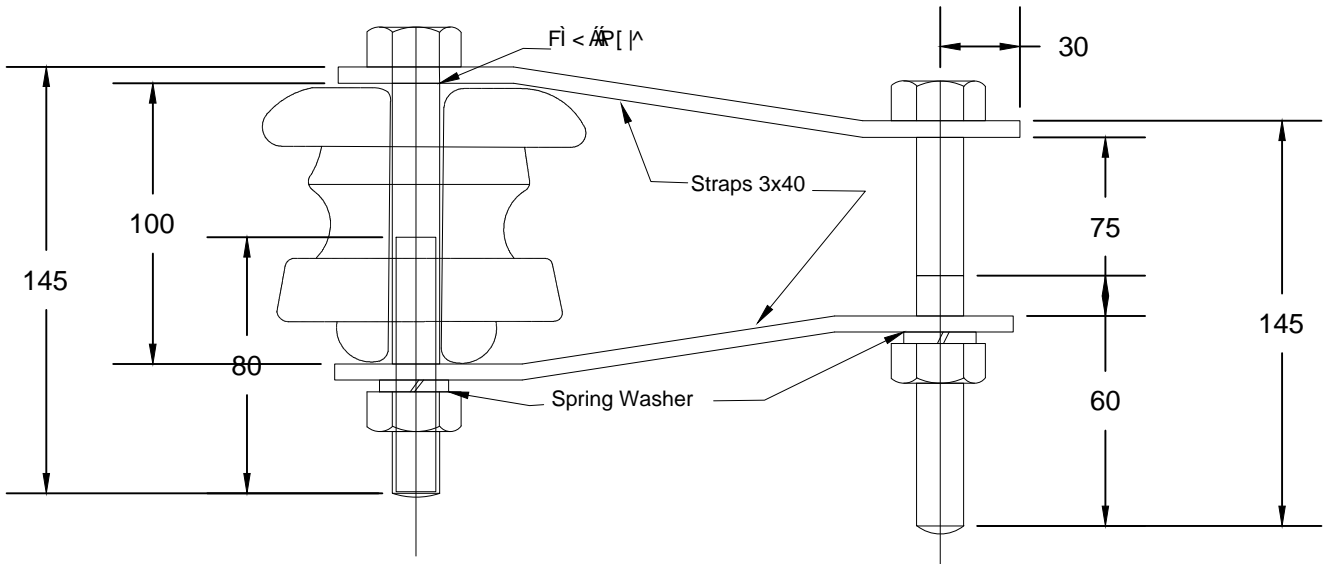
PROJECT: **Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE: **415/240 V Shackle Insulators**

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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





**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

PROJECT:

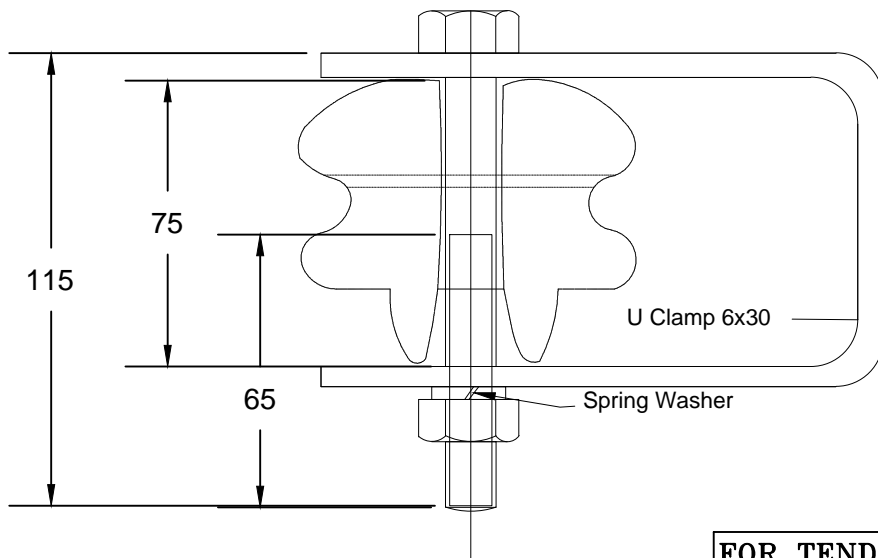
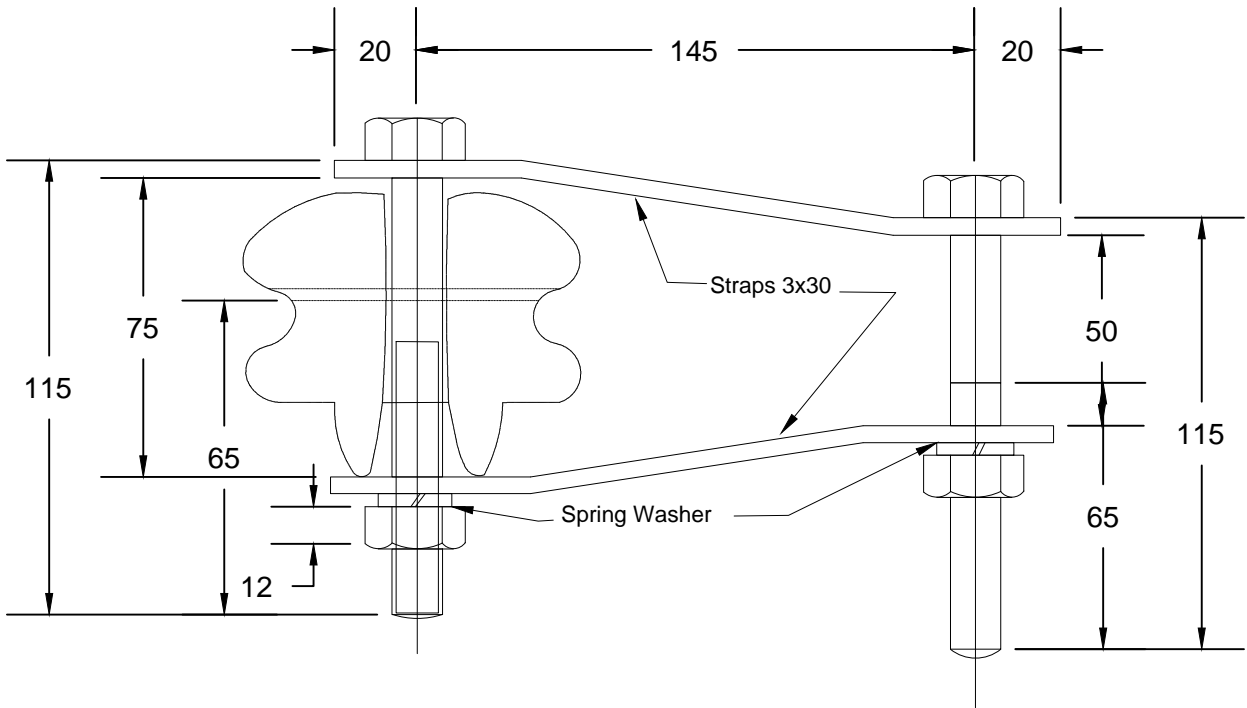
**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

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

RO					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



**FOR TENDER PURPOSE ONLY**



**Rural Electrification Corporation Ltd.**

PROJECT:

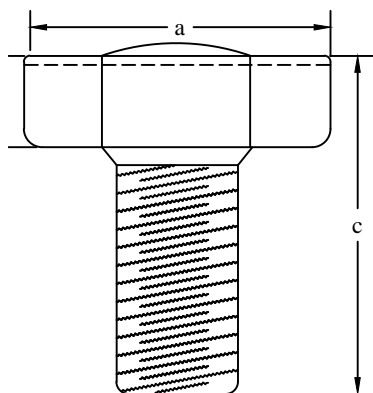
**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

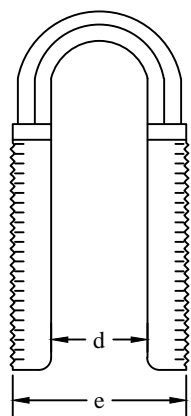
**415/240V Insulators & Hardware Fitting  
For Type-I Shackle Insulator**

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

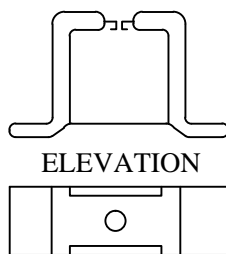
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/30	1 OF 1	0



ELEVATION

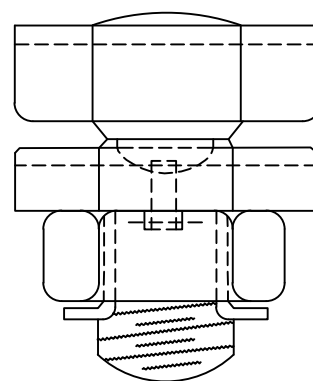


SIDE



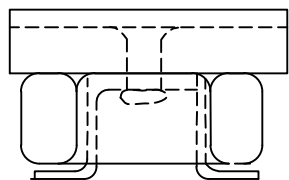
ELEVATION

PLAN  
DETAIL 'A'

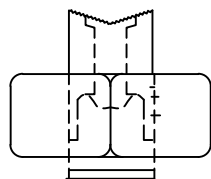


CONNECTOR ASSEMBLY

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

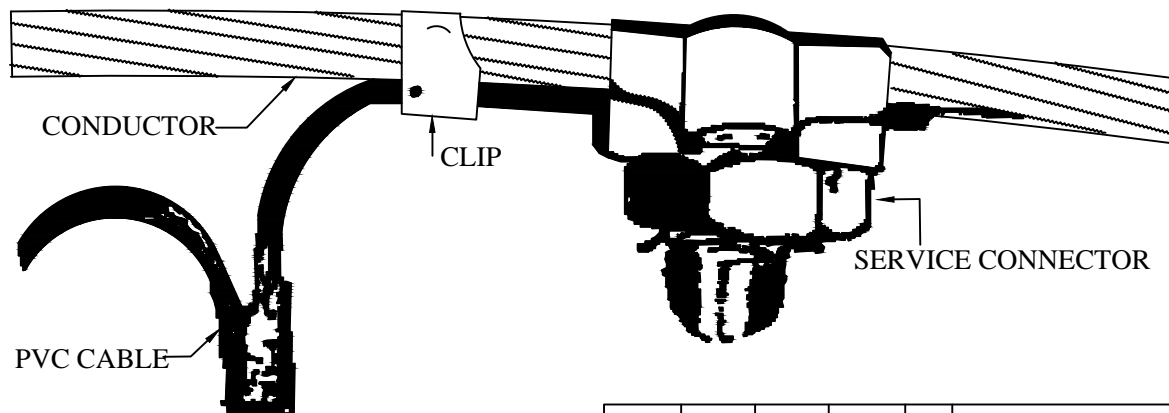


ELEVATION  
SEE DETAIL AT 'A'



SIDE

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



CONDUCTOR

CLIP

SERVICE CONNECTOR

PVC CABLE

ALL DIMENSION ARE IN MM.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:

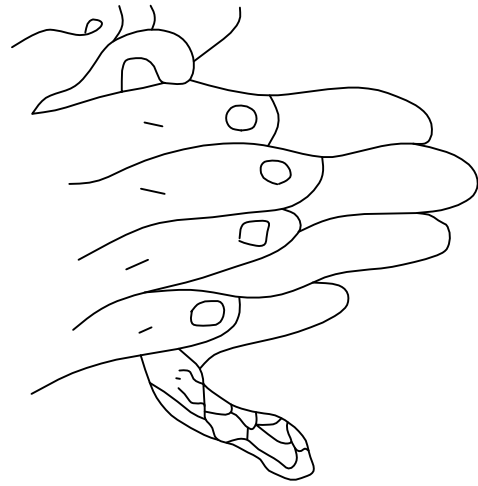
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

Finished Joint Using Service Connector

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

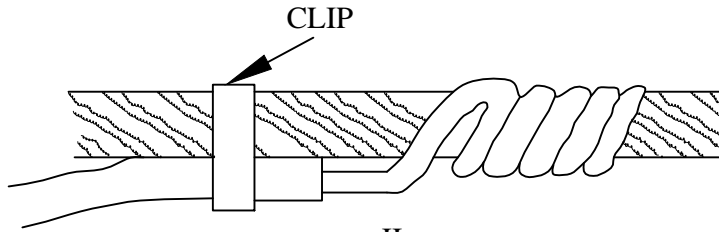
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/31	1 OF 1	0



I

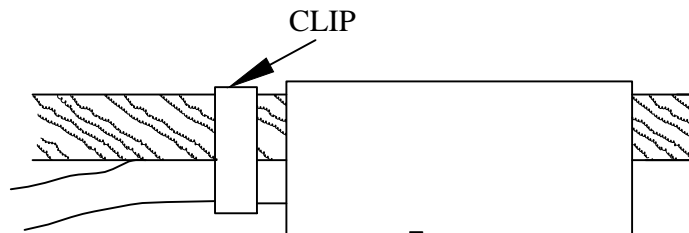


STEP: I. MIX THE ' RESIN' AND 'HARDNER' AS PER INSTRUCTIONS OF THE MANUFACTURER TO PREPARE PUTTY.



II


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



III

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

FOR TENDER PURPOSE ONLY

		<b>Rural Electrification Corporation Ltd.</b>	
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)			
TITLE: Application of Epoxy Compound on T-Joint for L. T. Service Connections			
SIZE	SCALE	DRG. NO.	SHT. NO.
A3	NTS	REC/DDUGJY/LT-OH/32	1 OF 1
REV. NO.	PREPARED	CHECKED	APPROVED
R0			
	DATE	PROJECT	REV. NO.
			0

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					



FIGURE-I



FIGURE-II

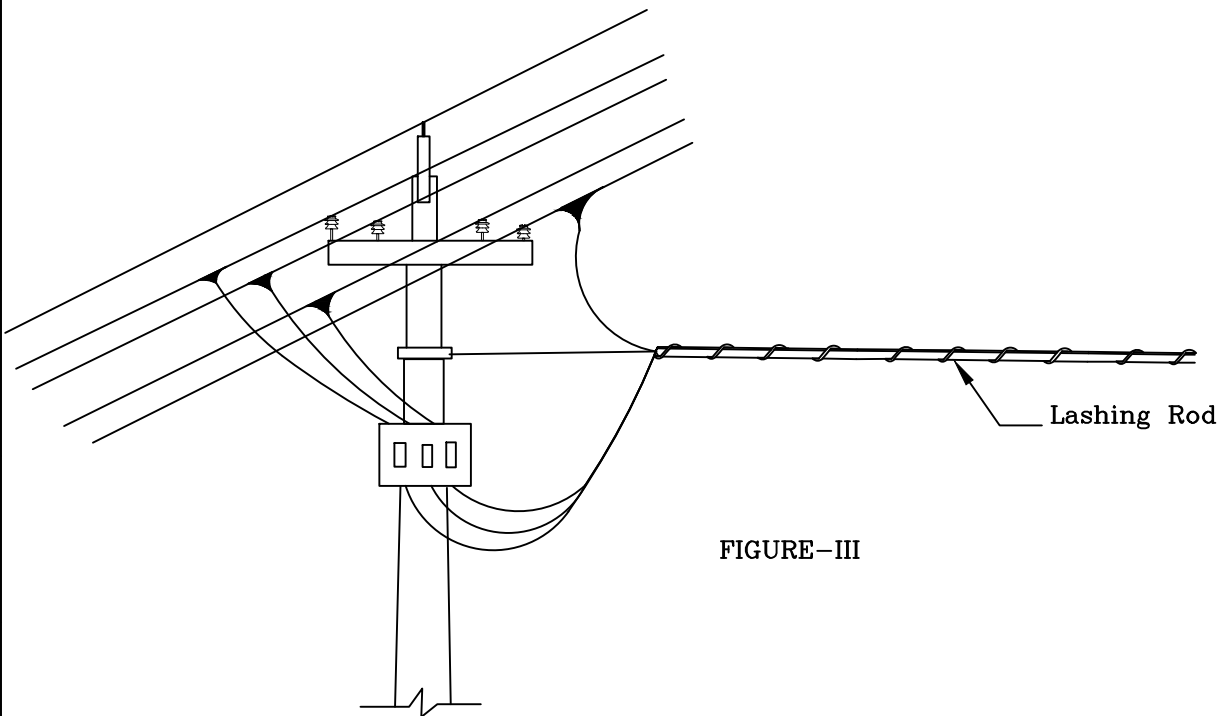


FIGURE-III

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

Helically Formed Fittings Lashing Rods

RO	PREPARED	CHECKED	APPROVED	DATE	PROJECT
REV. NO.					

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

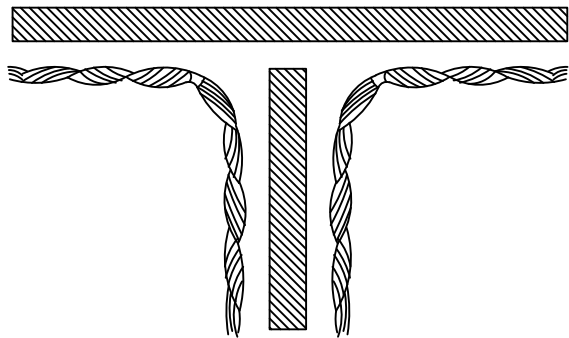


FIGURE-1

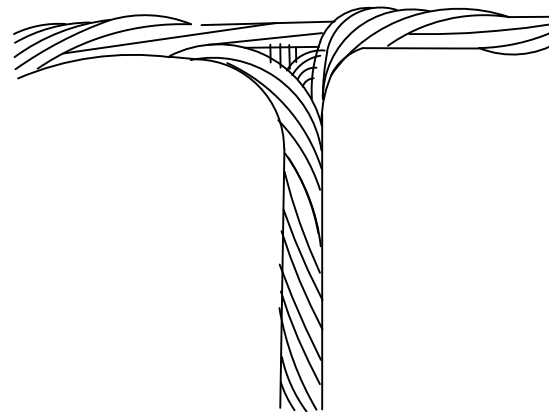


FIGURE-2

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

FIG.1 SHOWS THE T-CONNECTOR  
FIG.2 SHOWS THE T-CONNECTOR IN POSITION.

FIG.3 SHOWS TAPPING OF SERVICE CONNECTIONS USING T-CONNECTORS.

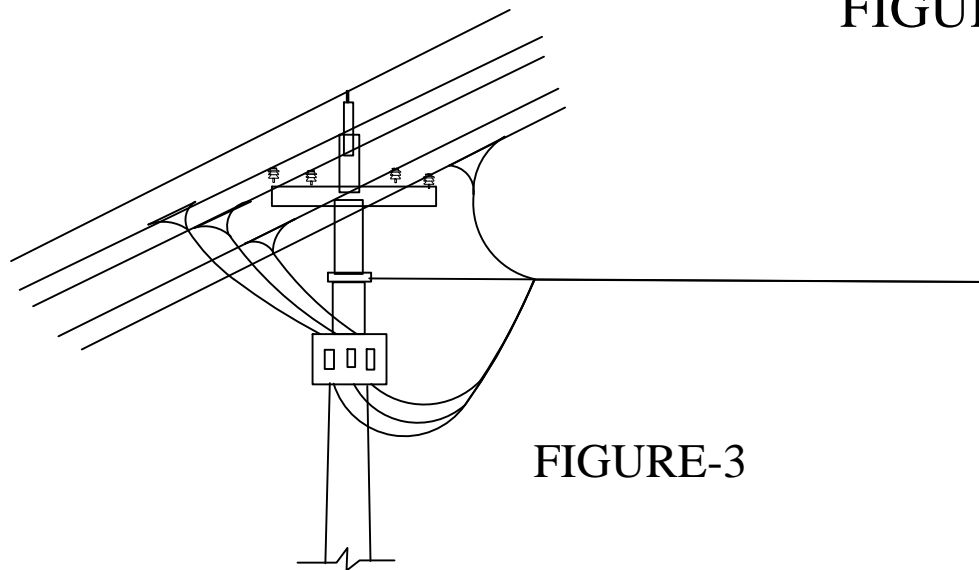


FIGURE-3

ALL DIMENSIONS ARE IN MM.

FOR TENDER PURPOSE ONLY

Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

Hellically Formed Fittings T-Connector

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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

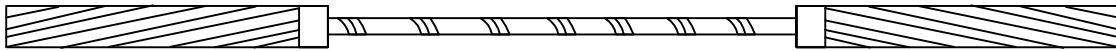
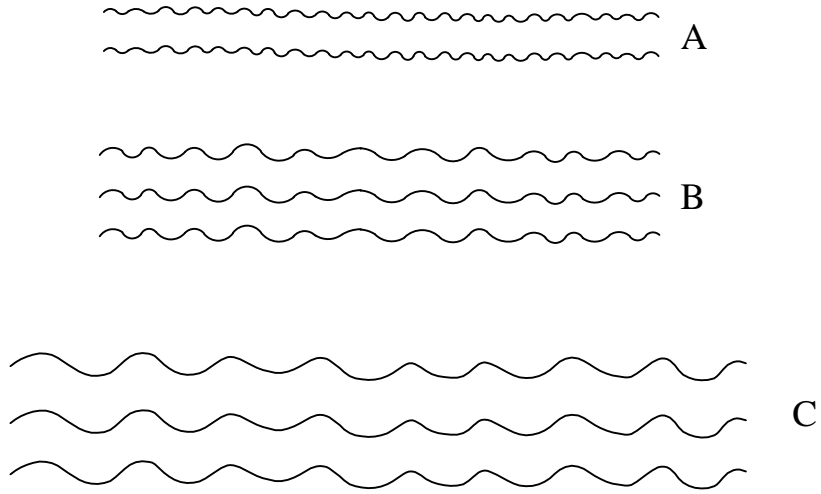


FIGURE-1

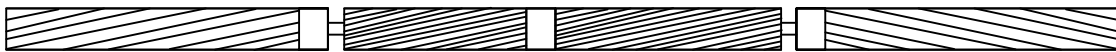


FIGURE-2

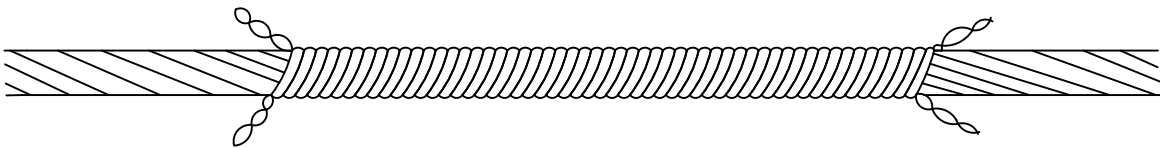


FIGURE-3

- 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:

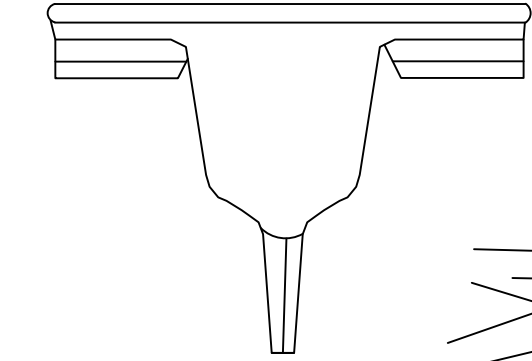
Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE

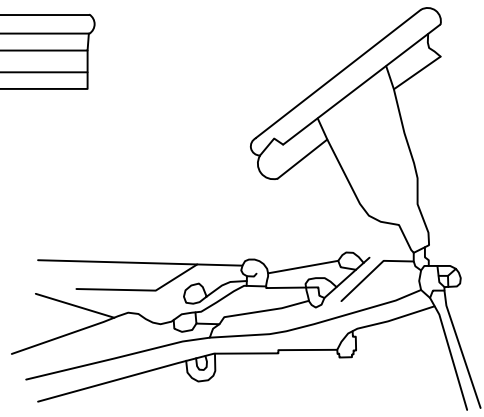
Helically Formed Fittings Splice For ACSR Joints

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

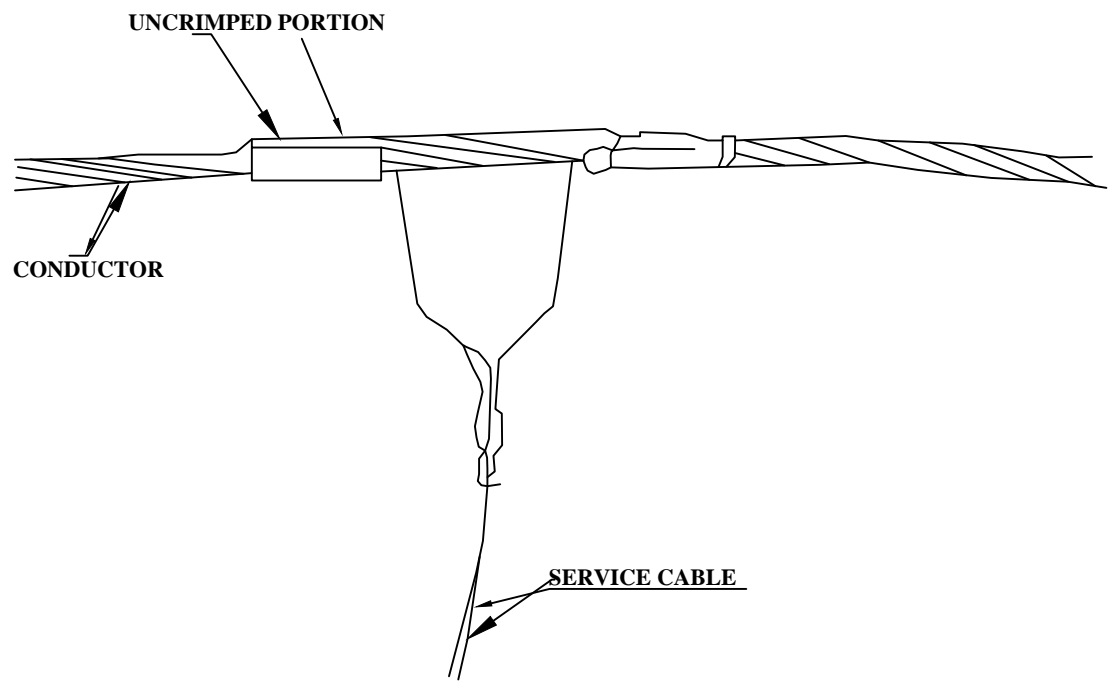
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A3	NTS	REC/DDUGJY/LT-OH/35	1 OF 1	0



**SERVICE CONNECTOR**




**APPLICATION OF CRIMPING TOOL**



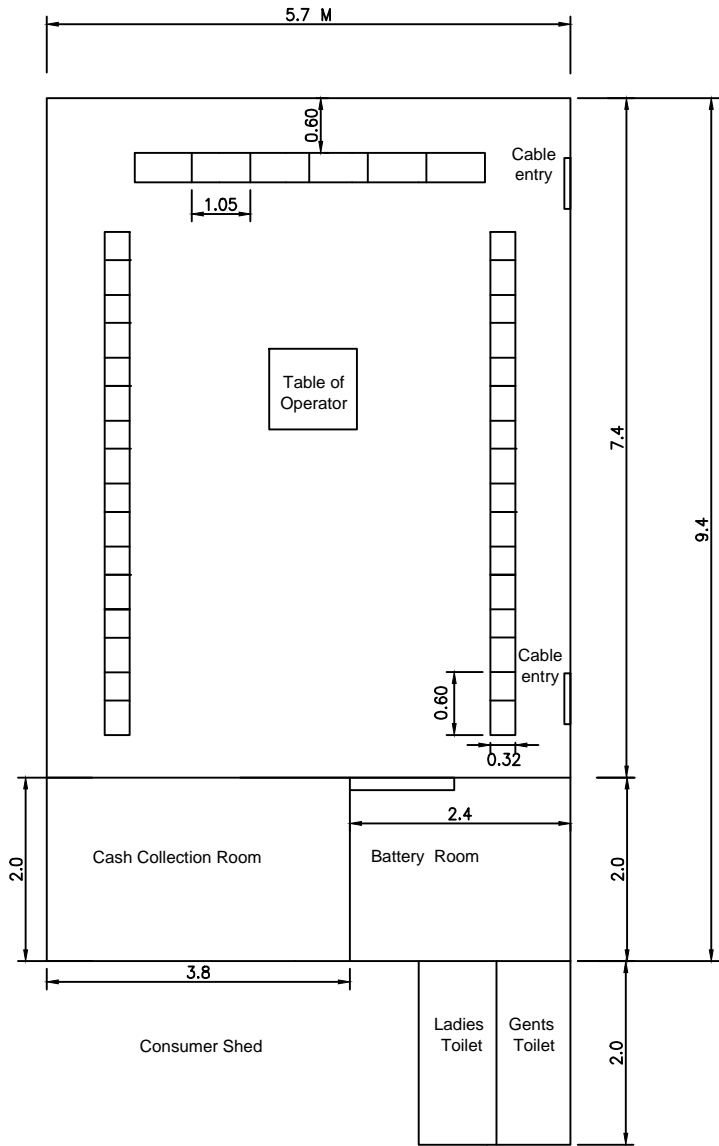
**A VIEW OF CRIMPED SERVICE CONNECTOR (PARTLY CRIMPED)**

**FOR TENDER PURPOSE ONLY**

 <p><b>आर ई सी</b> <b>REC</b> सुरक्षित संचालन, स्थानिक पोषण Safer energy, local possibilities</p>	Rural Electrification Corporation Ltd.	
	PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)	
TITLE: CRIMPED JOINT FOR L.T. SERVICE CONNECTION		
SIZE A3	SCALE NTS	DRG. NO. REC/DDUGJY/LT-OH/36
SHT. NO. 1 OF 1	REV. NO. 0	

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					





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

FOR TENDER PURPOSE ONLY



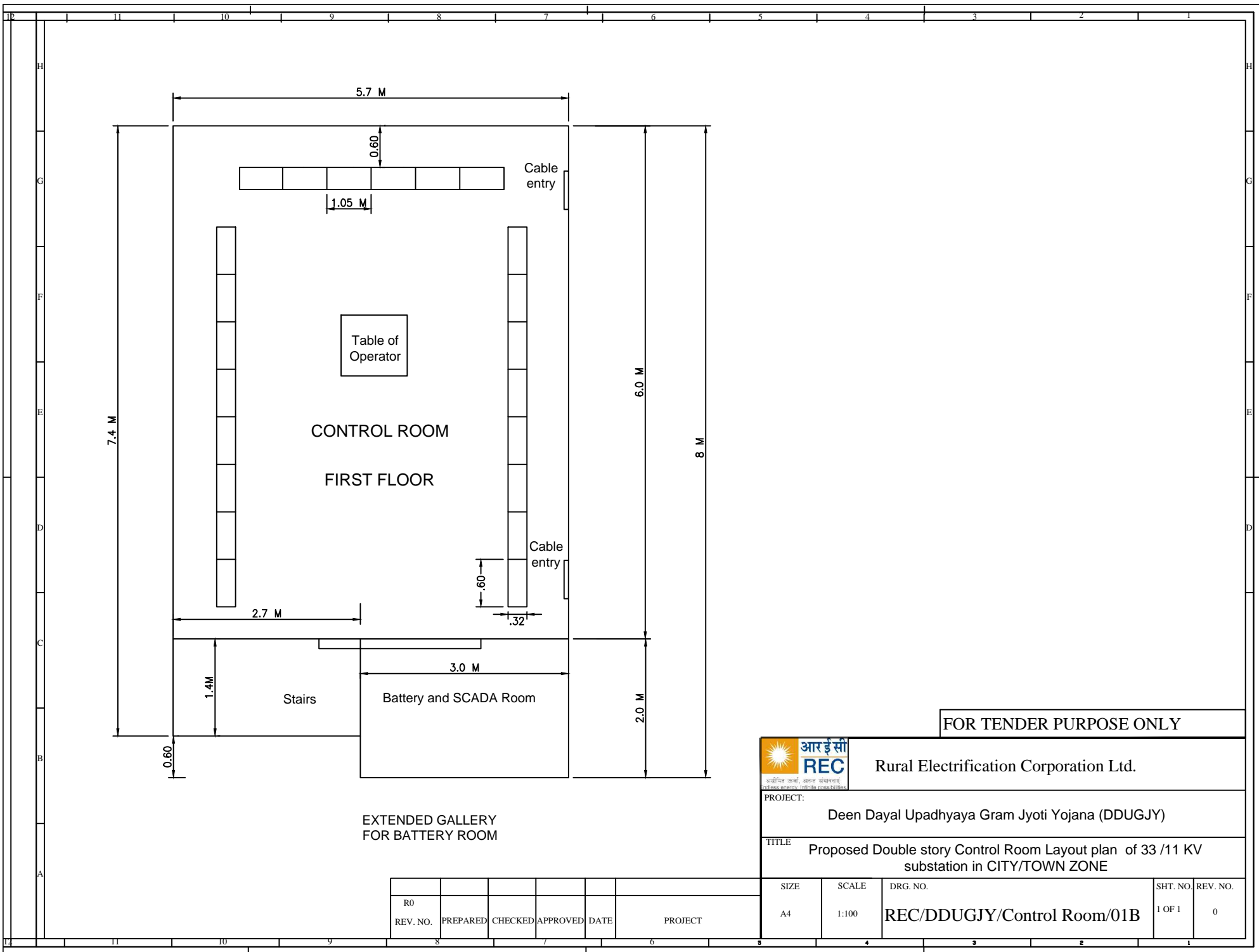
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



FOR TENDER PURPOSE ONLY



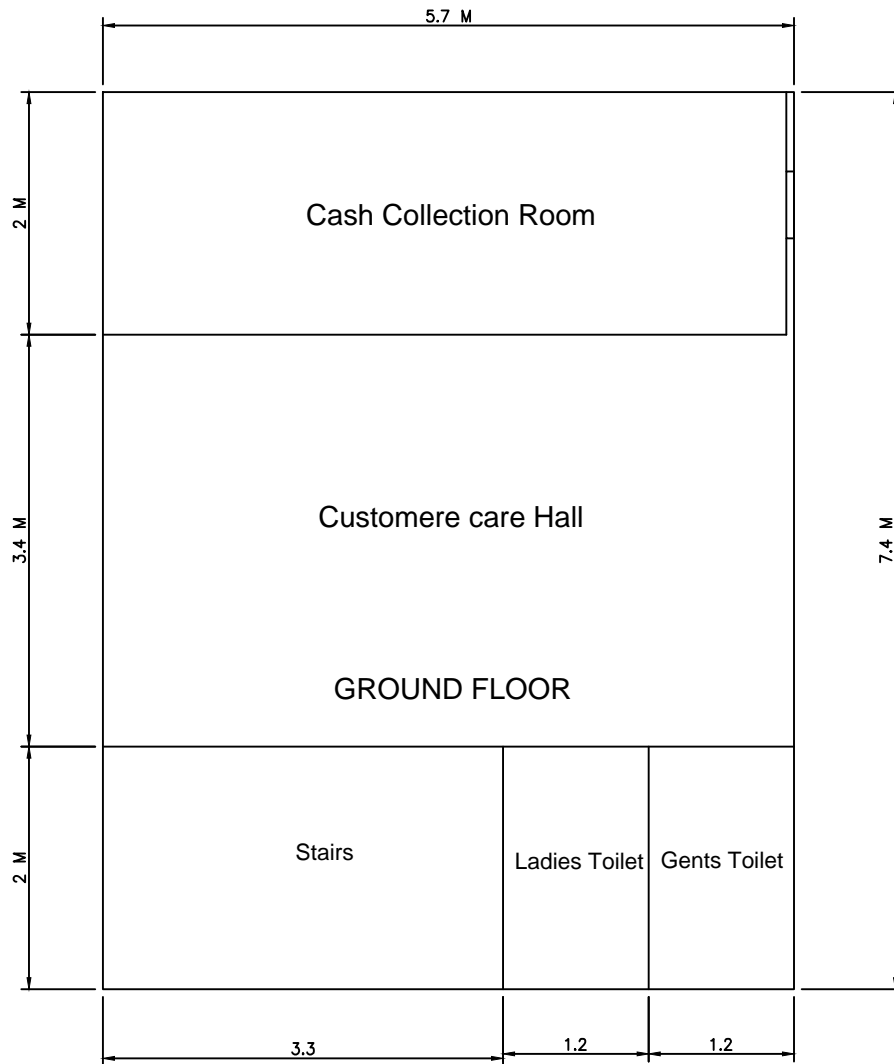
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

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


R0						
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	

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



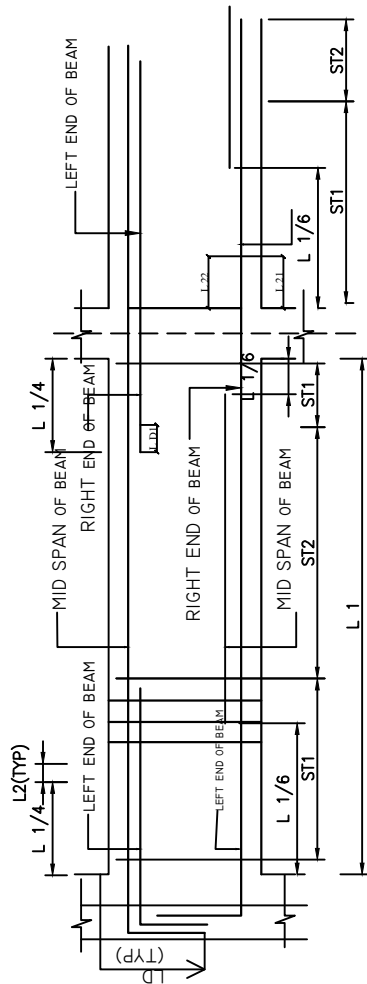
Proposed Double story Control Room Layout plan of 33 /11 KV substation in CITY/TOWN ZONE

FOR TENDER PURPOSE ONLY

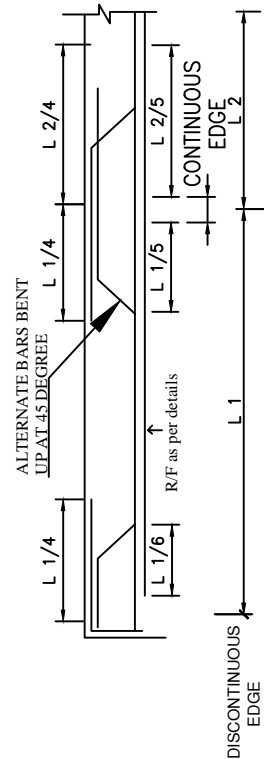
 <b>आर ई सी</b> <b>REC</b> <small>आपूर्तिके कार्य, अग्रिम संशोधन</small> <small>access agency, initiate possession</small>		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b>		Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)		
<b>TITLE</b>		Proposed Double story Control Room Layout plan of 33 /11 KV substation in CITY/TOWN ZONE		
<b>SIZE</b>	<b>SCALE</b>	<b>DRG. NO.</b>	<b>SHT. NO.</b>	<b>REV. NO.</b>
A4	1:100	REC/DDUGJY/Control Room/01C	1 OF 1	0

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

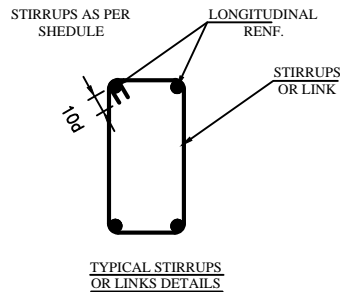




TYPICAL SECTION OF BEAM

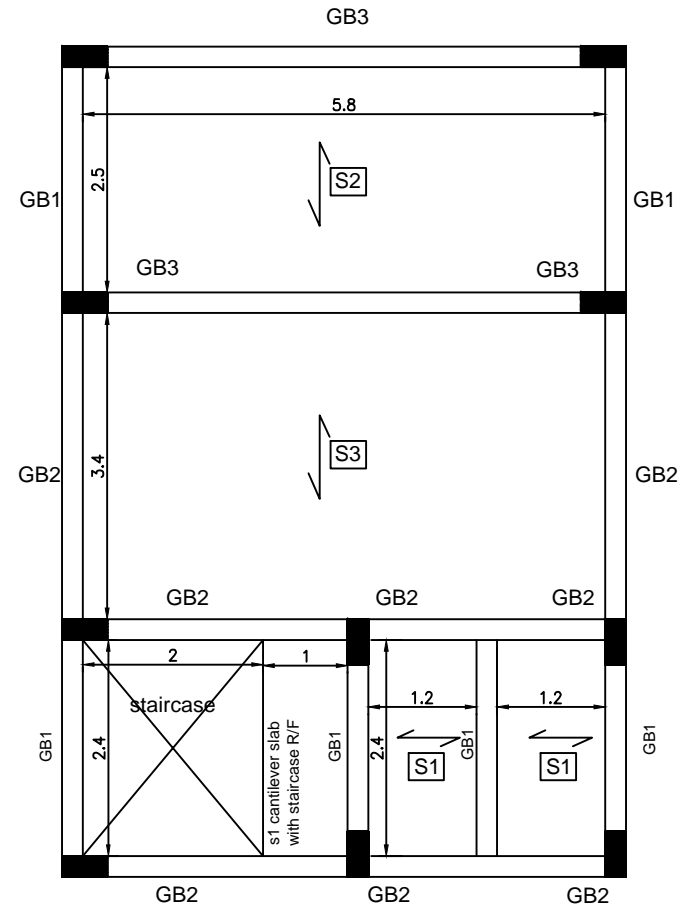


TYPICAL R/F DETAILS OF SLAB



TYPICAL STIRRUPS OR LINKS DETAILS

DEVELOPMENT LENGTH 'LD' FOR HYSD BARS WITH $F_y=415 \text{ N/MMSQ.}$	
CONCRETE GRADE	Ld
M:20	47X DLA



GROUND FLOOR SLAB BEAM PLAN

GROUND FLOOR SLAB BEAM DETAILS


SR. NO.	BEAM	SIZE	REINFORCEMENT				STIRRUPS DETAIL	
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		AT SUPPORT (ST1)	AT MID SPAN (ST2)
			CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SPAN		
1.	GB1	200X420	2-10 mm $\phi$	2-10 mm $\phi$	2-10 mm $\phi$	2-10 mm $\phi$	8mm@175c/c	8mm@225c/c
2.	GB2	200X420	2-12 mm $\phi$	2-12 mm $\phi$	2-12 mm $\phi$	2-12 mm $\phi$	8mm@175c/c	8mm@225c/c
3.	GB3	200X520	2-20 mm $\phi$	2-20 mm $\phi$	2-20 mm $\phi$	2-20 mm $\phi$	8mm@150c/c	8mm@200c/c

SCHEDULE OF GROUND FLOOR ROOF SLAB:

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

FOR TENDER PURPOSE ONLY

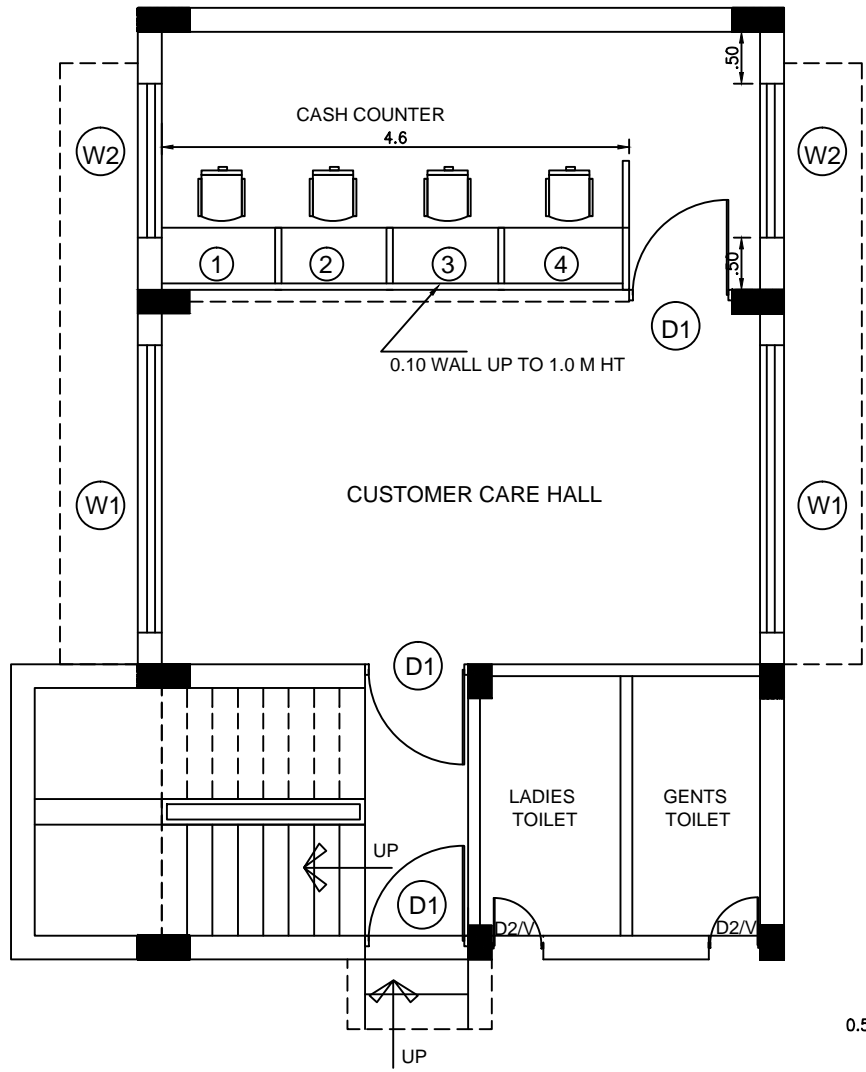


**Rural Electrification Corporation Ltd.**

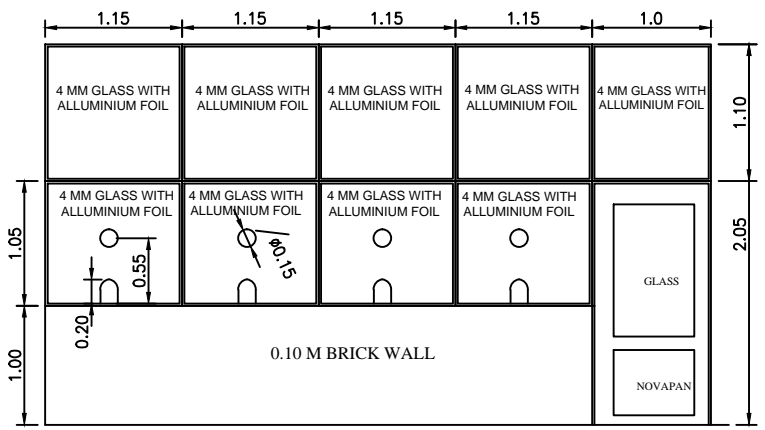
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: GROUND FLOOR SLAB BEAM & DETAILS

SIZE: A4	SCALE: 1:100	DRG. NO.: REC/DDUGJY/CIVIL/02	SHT. NO.: 1 OF 1	REV. NO.: 0
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**GROUND FLOOR WORKING PLAN**



**ELEVATION**

**SPECIFICATION FOR ALUMINIUM SECTIONS**

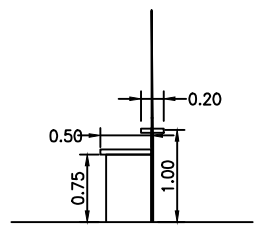
FIRST SECTION	40 MMX60MM
CLEAT SECTION	15MM(TRIANGULAR)
DOOR STYLE ( TOP)	40 MMX100MM
DOOR STYLE ( BOTTOM)	40 MMX150MM

FOR TENDER PURPOSE ONLY



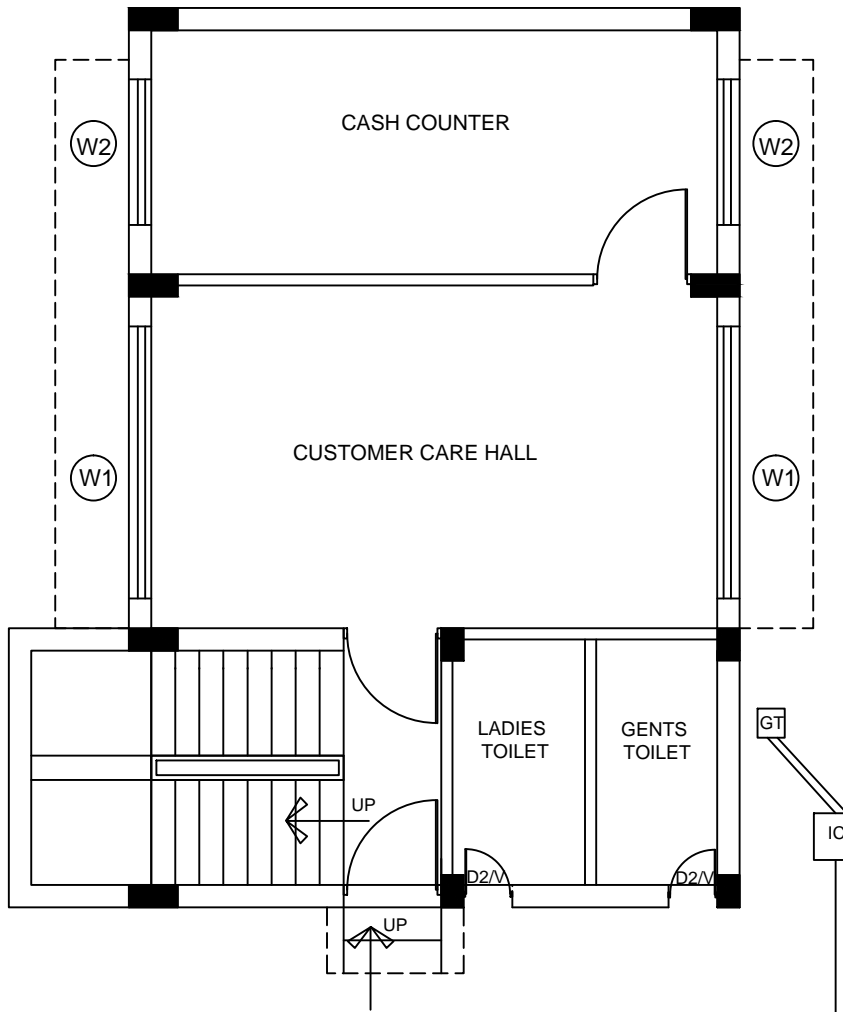
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
TITLE: GROUND FLOOR COUNTER ALLUMINIUM PARTITION DRAWING				
SIZE: A4	SCALE: 1:100	DRG. NO. REC/DDUGJY/CIVIL/03	SHT. NO. 1 OF 1	REV. NO. 0

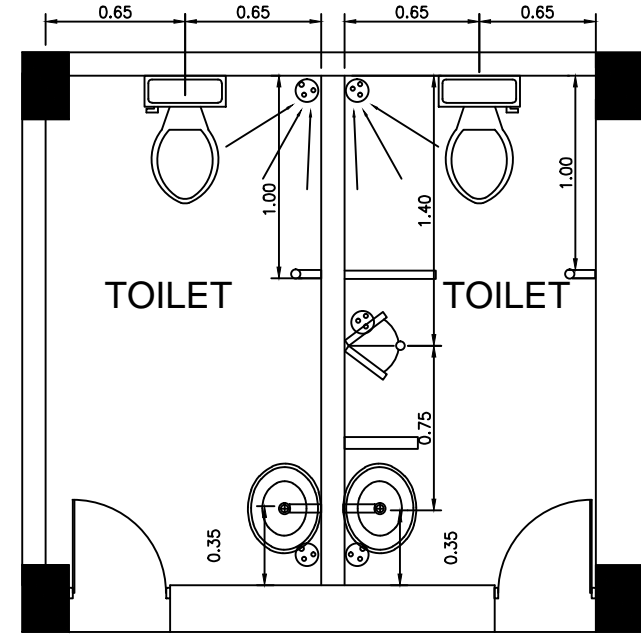


**SECTION**

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



**GROUND FLOOR TOILET LAYOUT**



**TOILET DETAILS (1:20)**

FOR TENDER PURPOSE ONLY

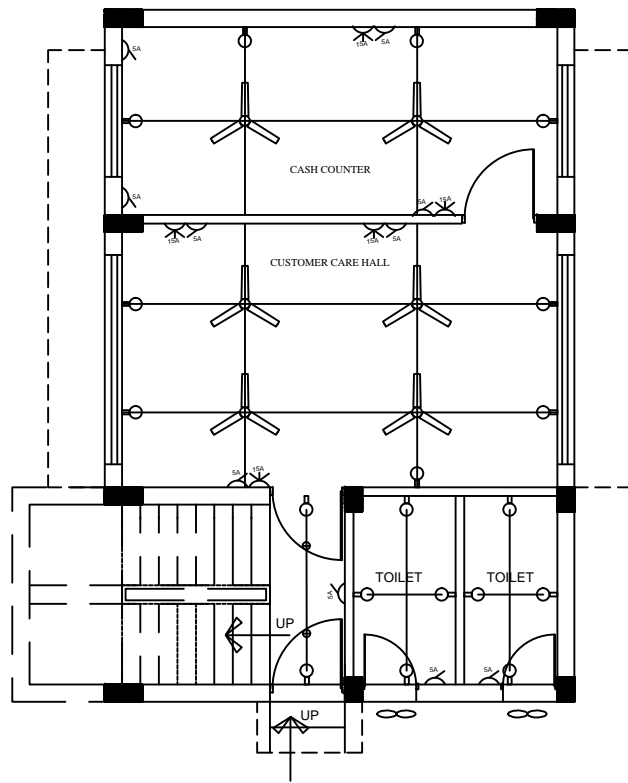

**आर ई सी REC**  
 Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

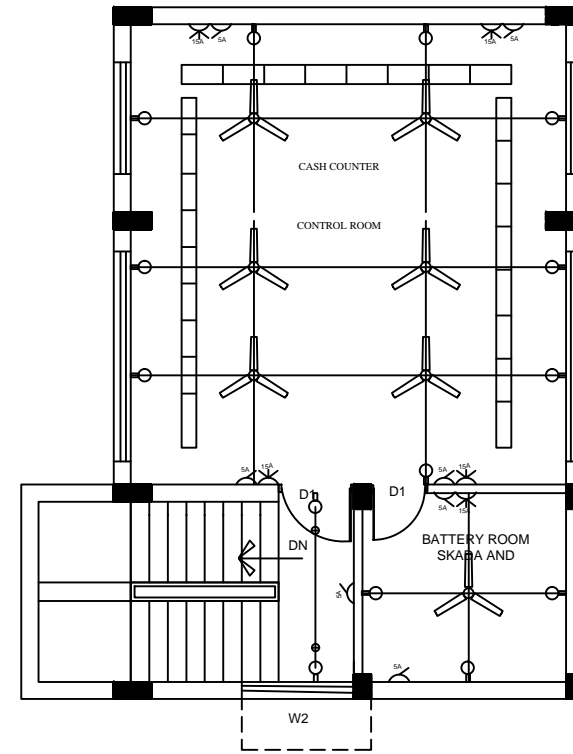
TITLE: GROUND FLOOR TOILET LAYOUT

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

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



GROUND FLOOR ELECTRICAL PLAN



FIRST FLOOR ELECTRICAL PLAN

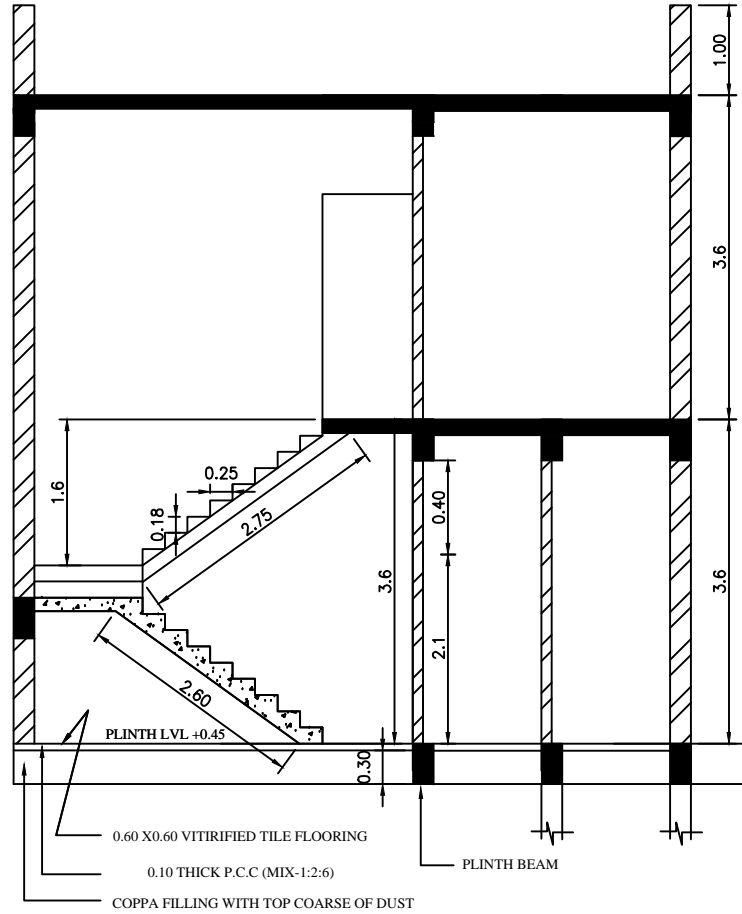
INDEX					
	5 AMP POINT		BRACKET POINT		DISTRIBUTION BOX
	15 AMP POINT		EXHAUST FAN		CEILING POINT
	FAN POINT		TUBE LIGHT POINT		BELL

FOR TENDER PURPOSE ONLY

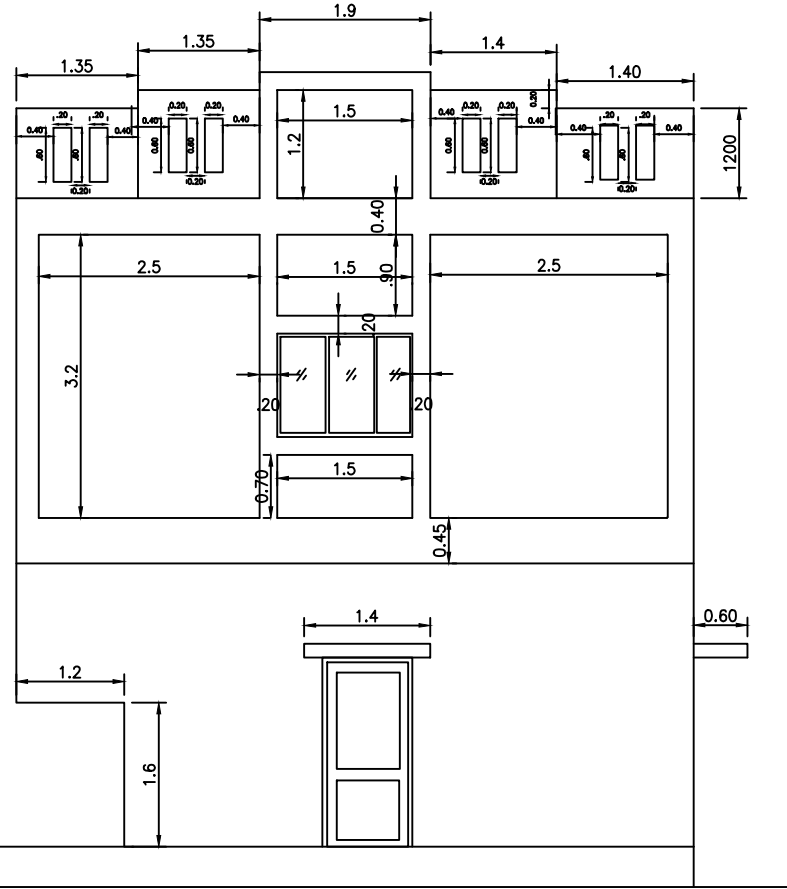
		Rural Electrification Corporation Ltd.		
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
TITLE: GROUND & FIRST FLOOR ELECTRICAL LAYOUT				
SIZE: A4	SCALE: 1:100	DRG. NO.: REC/DDUGJY/CIVIL/05	SHT. NO.: 1 OF 1	REV. NO.: 0

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT





**SECTION - XX**



**ELEVATION**

FOR TENDER PURPOSE ONLY



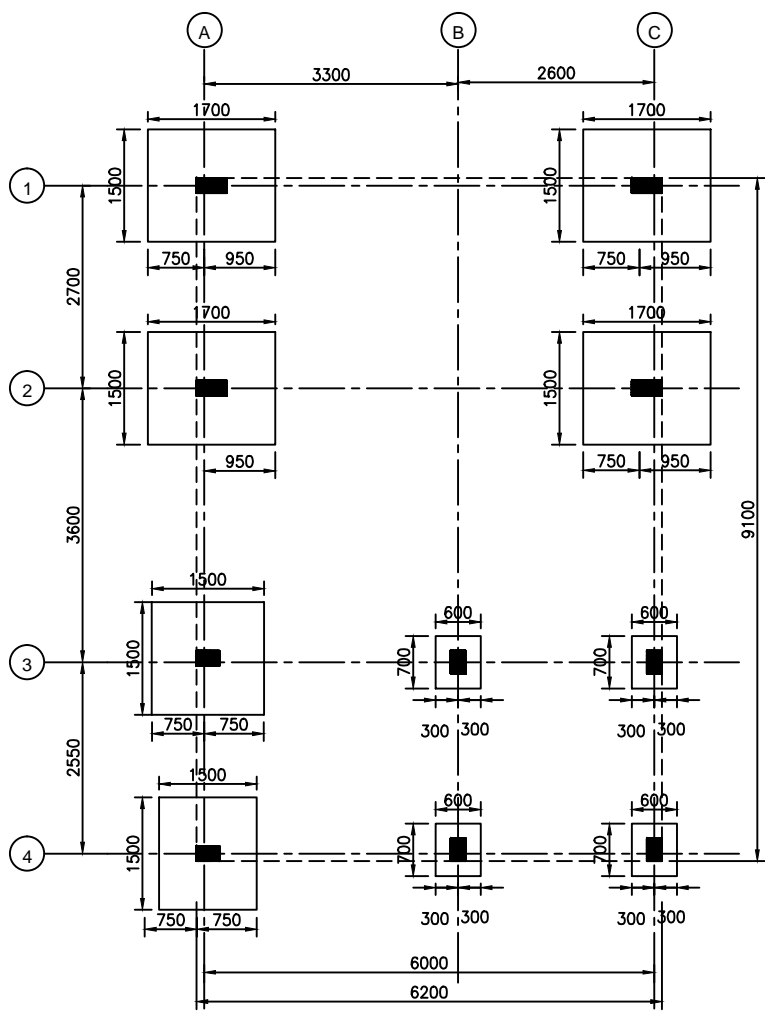
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: ELEVATION & SECTION -XX

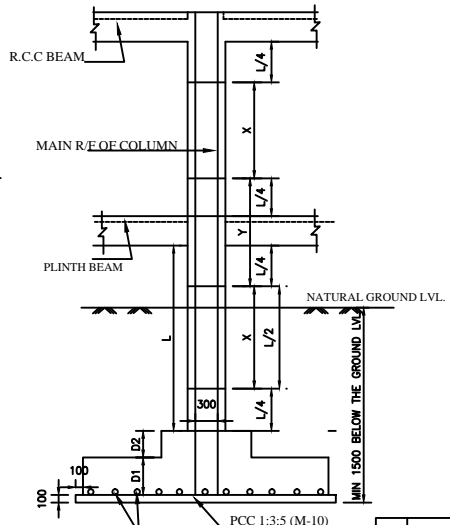
R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/CIVIL/06	1 OF 1	0

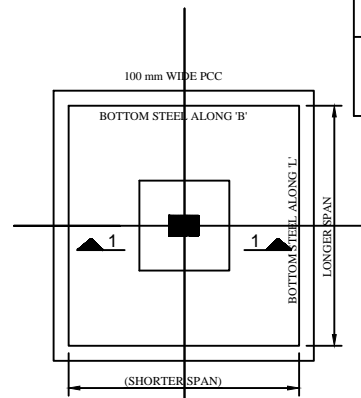


SCHEDULE OF FOOTING

SR. NO.	COLUMN	FOOTING TYPE	EXCAVATION DIMENSION		FOOTING DIMENSION				FOOTING REINFORCEMENT				
			WIDTH	LENGTH	STEP	WIDTH	LENGTH	O1	O2	BOTTOM		TOP	
F1	C1	STEPPED	1300	1500	1	1100	1300	300		10mm@150mm/c	10mm@150mm/c		
					2	600	700		250				
F2	C2	STEPPED	1500	1700	1	1300	1500	300		10mm@150mm/c	10mm@150mm/c		
					2	700	900		300				



TYP. ELEVATION OF COL. (SHOWING SPACING OF STIRRUPS)  
TYP. COLUMN DETAIL

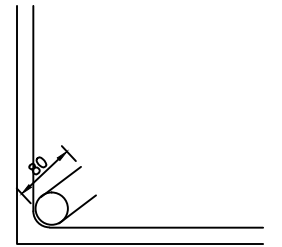


TYPICAL STEPPED FOOTING DETAIL

DEVELOPMENT LENGTH 'LD' FOR HYSD BARS WITH Fy=415 N/MMSQ.	
CONCRETE GRADE	Ld
M:20	47X DLA

SCHEDULE OF COLUMNS

SR. NO.	MARKED	DIMENSIONS		REINFORCEMENT	RING		SKETCH OF RING
		A	B		RING AT X	RING AT Y	
1.	C1	200	300		α1-8T@200C./C.	α1-8T@150C./C.	
2.	C2	200	400		α1-8T@200C./C.	α1-8T@150C./C.	



TYPICAL DETAIL OF RING HOOK

FOR TENDER PURPOSE ONLY



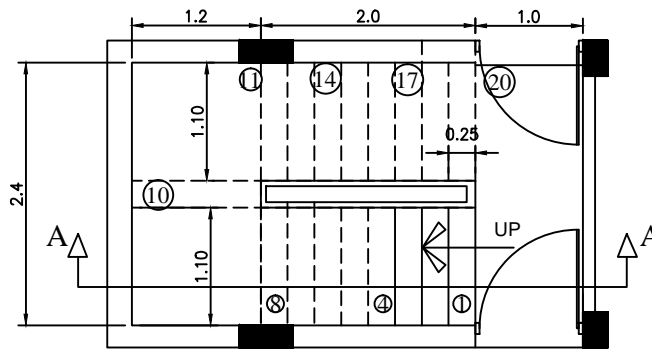
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: CENTRE LINE WITH COLUMN LAYOUT & FOOTING DETAILS

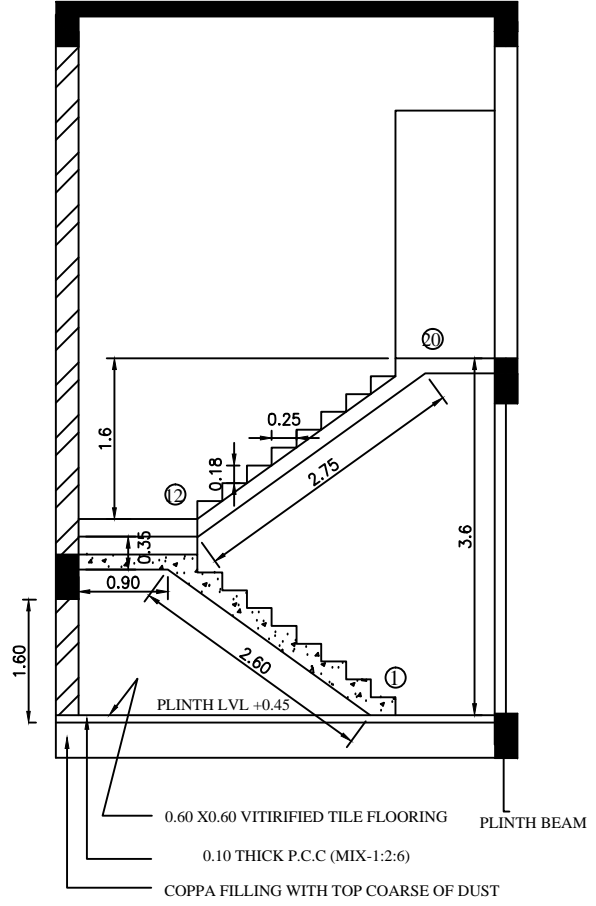
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REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT	

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

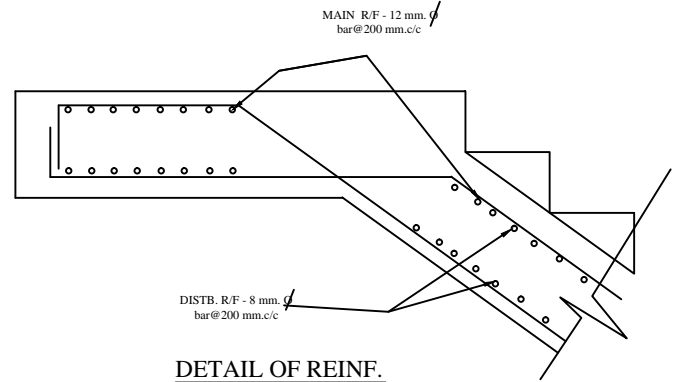


**PLAN**

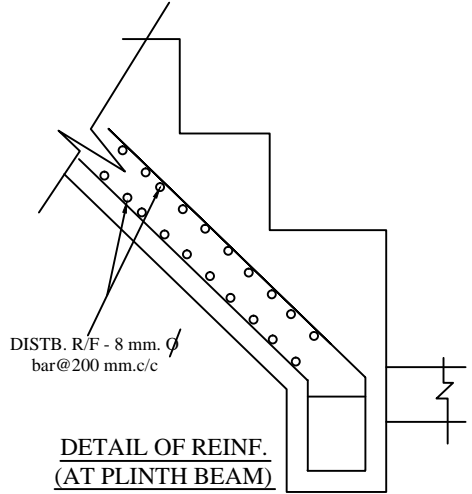
**STAIRCASE DETAILS**  
**RISER-150 mm Tread-250 mm**  
**STAIRCASE B**  
**Walst Slab 110 mm. TH.**  
**Main R/F-T 12 mm. @150 mm .c/c**  
**Dlastb. R/F-T 10mm. @200 mm.c/c**



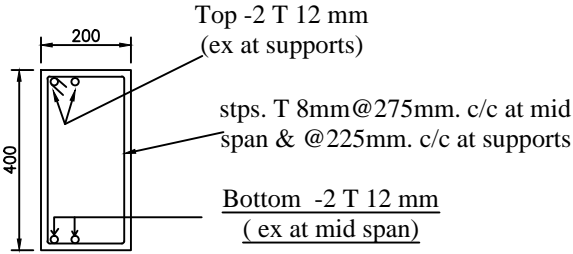
**SECTION - AA'**



**DETAIL OF REINF. (AT LANDING BEAM)**




**DETAIL OF REINF. (AT PLINTH BEAM)**

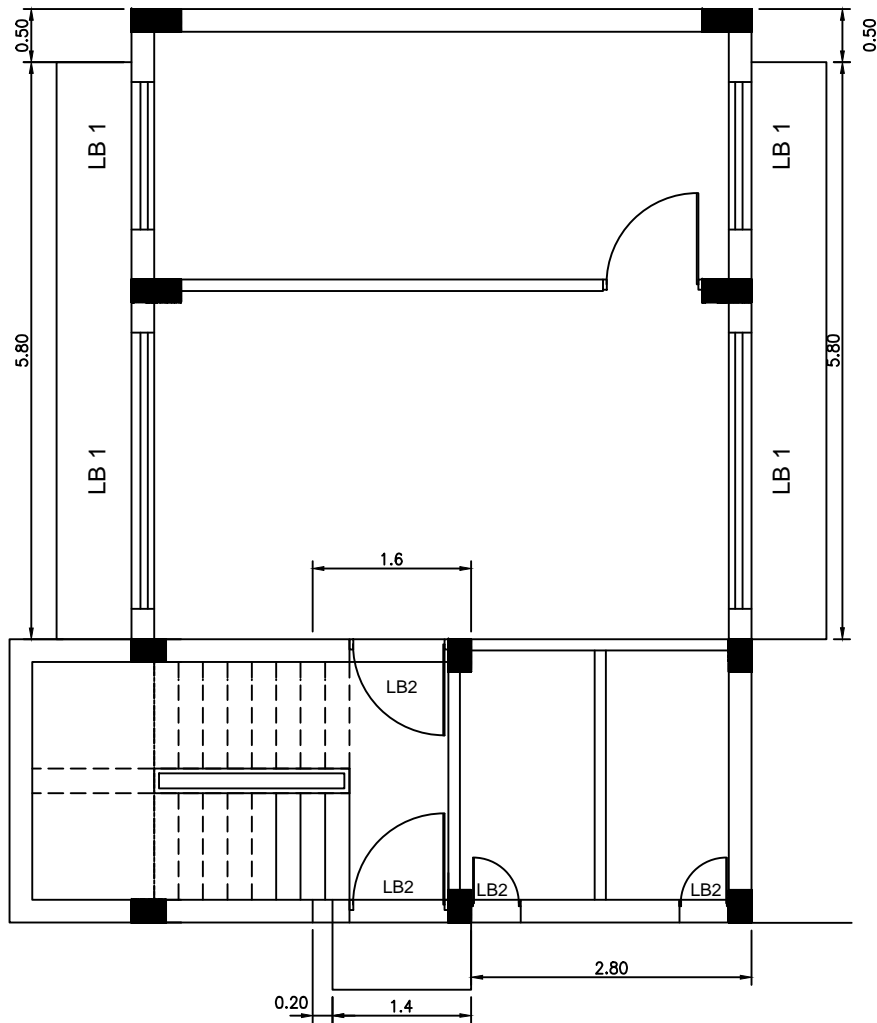


**LB(100 mm x 400 mm.)**

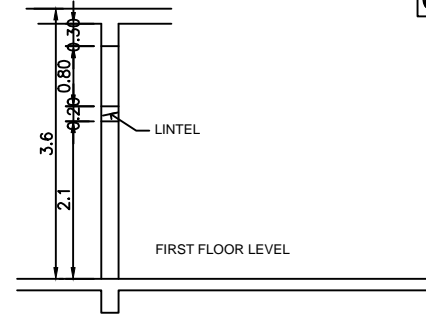
**FOR TENDER PURPOSE ONLY**

 <b>आर ई सी</b> <b>REC</b> <small>आमिषि कर्म, जनता सेवकम्</small> <small>सर्वजनिक प्रकाश, निर्माण सेवासंगठन</small>		<b>Rural Electrification Corporation Ltd.</b>		
<b>PROJECT:</b> Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)				
<b>TITLE:</b> STAIR DETAIL				
<b>SIZE:</b> A4	<b>SCALE:</b> 1:100	<b>DRG. NO.:</b> REC/DDUGJY/CIVIL/08	<b>SHT. NO.:</b> 1 OF 1	<b>REV. NO.:</b> 0

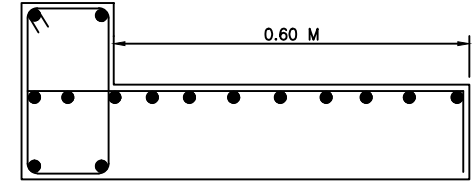
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REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT



**GROUND FLOOR LINTEL PLAN**



**TYPICAL SECTION**



**TYPICAL R/F DETAILS OF CHAJJA**

**CHAJJA SLAB DETAILS**

	TYPE	THICKNESS	MAIN R/F	DISTRIBUTION
S 1	CANTILIVER SLABTYPE	120 MM	ϕ8mm@150c/c	ϕ8mm@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:

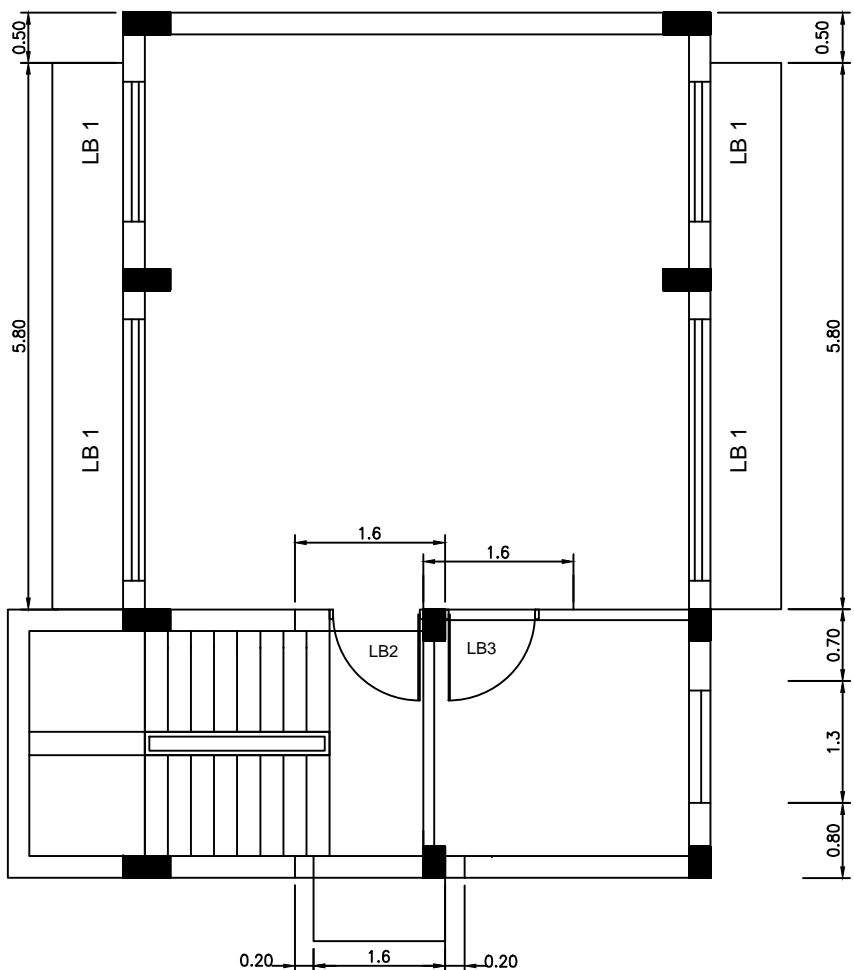
**Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)**

TITLE

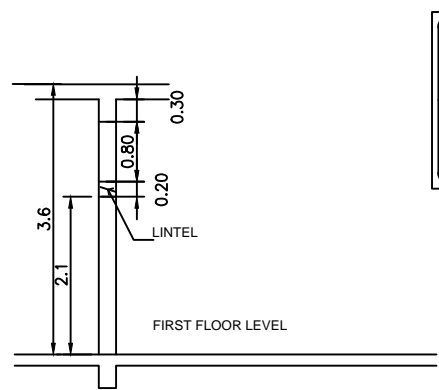
**GROUND FLOOR LINTEL CHAJJA LAYOUT & DETAIL**

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

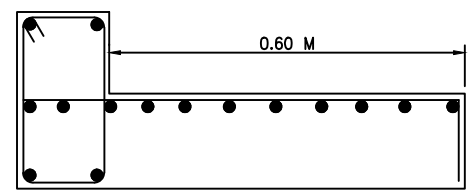
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/CIVIL/09	1 OF 1	0



**FIRST FLOOR LINTEL PLAN**



**TYPICAL SECTION**



**TYPICAL R/F DETAILS OF CHAJJA**

**CHAJJA SLAB DETAILS**

	TYPE	THICKNESS	MAIN R/F	DISTRIBUTION
S 1	CANTILIVER SLABTYPE	120 MM	8mm@150c/c	8mm@175c/c

**LINTEL BEAM DETAILS**

SR. NO.	BEAM	SIZE	REINFORCEMENT					
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS DETAIL	
			CONTINUE	EXTRA AT SUPP.	CONTINUE	EXTRA AT MID SUPP.	AT SUPPORT(ST1)	AT MID SUPPORT(ST2)
1.	LB1	200X200	2-10 mm $\phi$	1-10 mm $\phi$	2-10 mm $\phi$	1-10 mm $\phi$	8mm@150c/c	8mm@200c/c
2.	LB2	200X200	2-10 mm $\phi$		2-10 mm $\phi$		8mm@175c/c	8mm@225c/c
3.	LB3	100X200	2-10 mm $\phi$		2-10 mm $\phi$		8mm@175c/c	8mm@225c/c

**FOR TENDER PURPOSE ONLY**



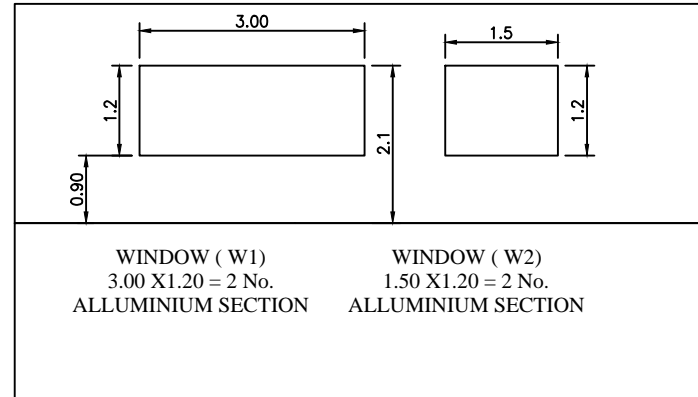
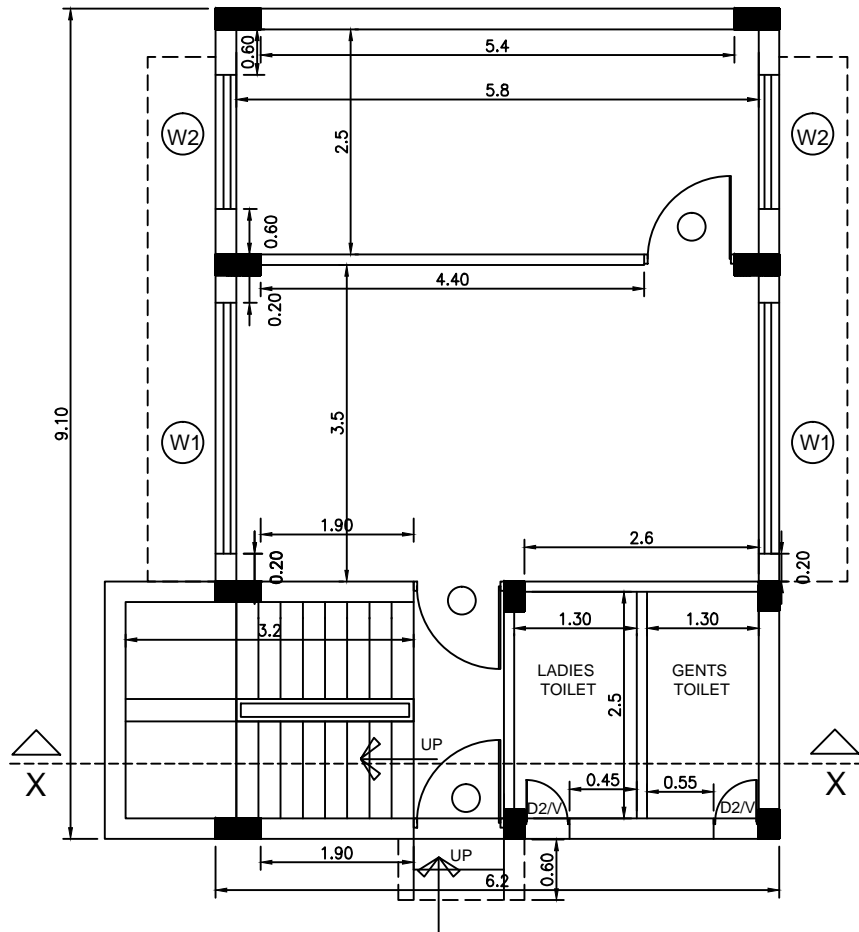
**Rural Electrification Corporation Ltd.**

**PROJECT:** Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

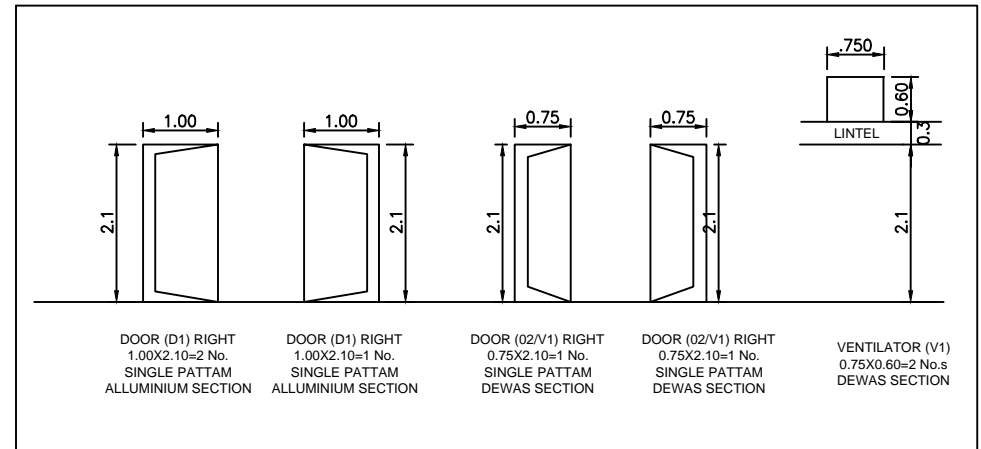
**TITLE:** FIRSTFLOOR LINTEL CHAJJA LAYOUT & DETAIL

REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT
R0					

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/CIVIL/10	1 OF 1	0



**WINDOW FRAME DETAIL**



FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

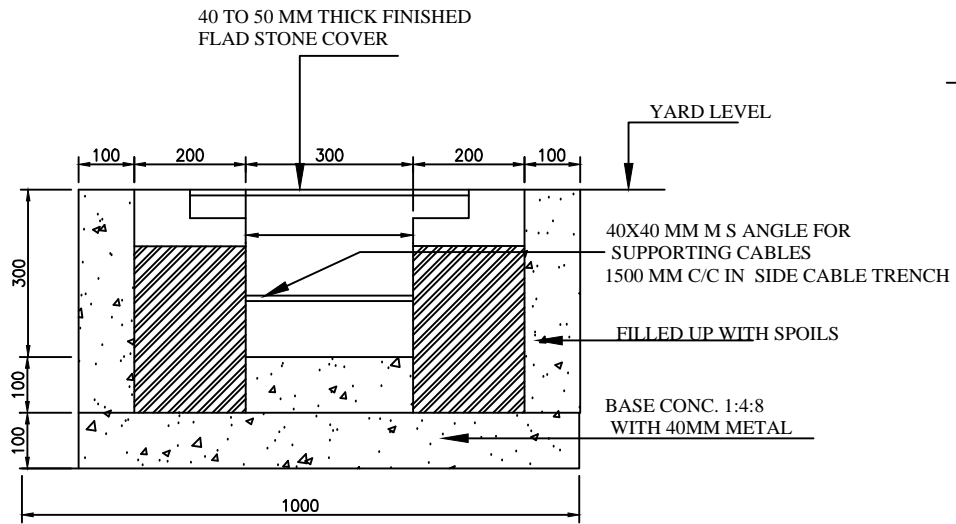
PROJECT:

TITLE

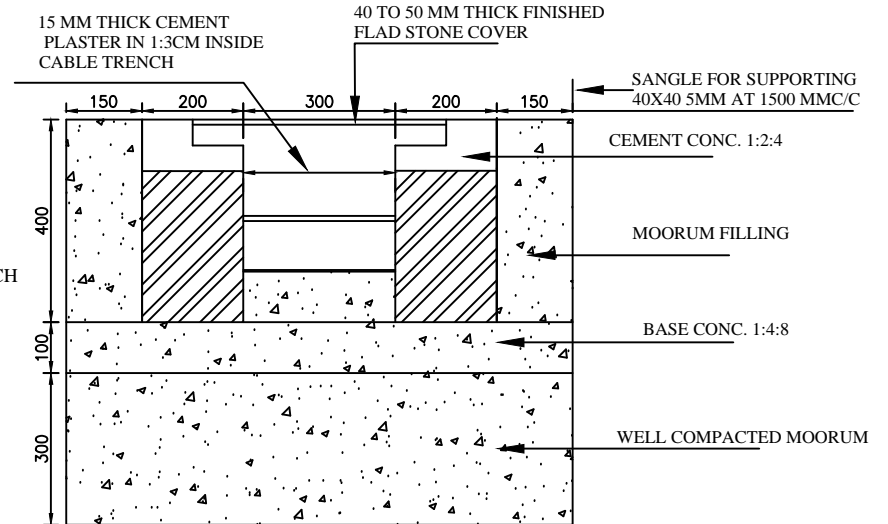
GROUND FLOOR WORKING & OPENING DETAIL

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/CIVIL/11	1 OF 1	0



HARD SOIL



BLACK COTTON SOIL

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

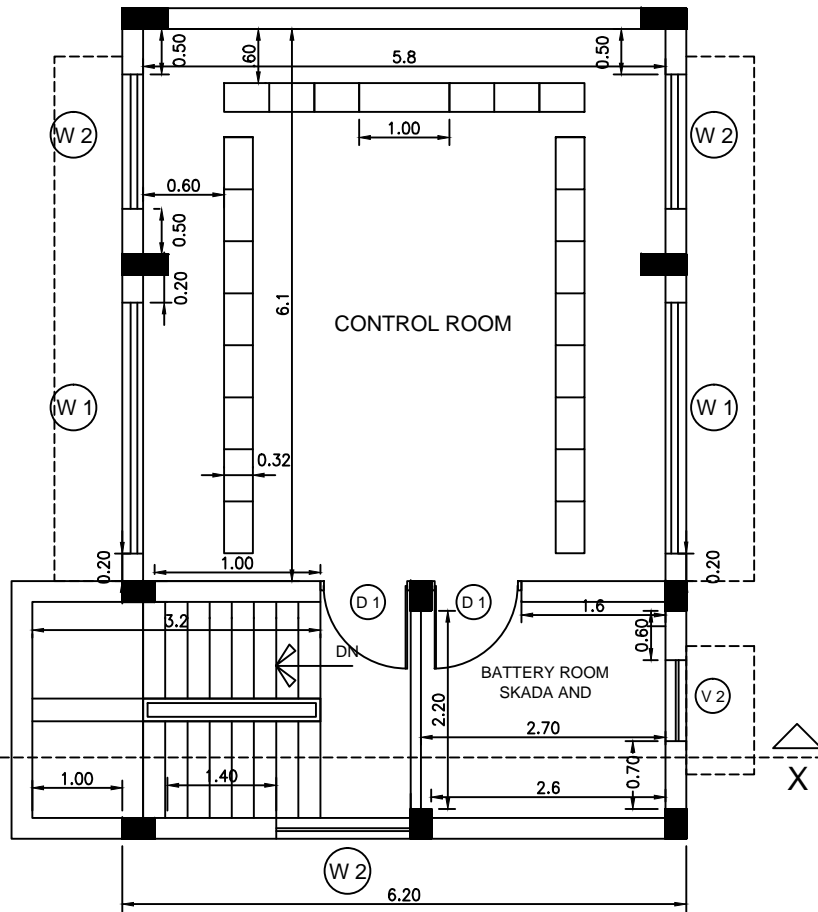
PROJECT:

TITLE

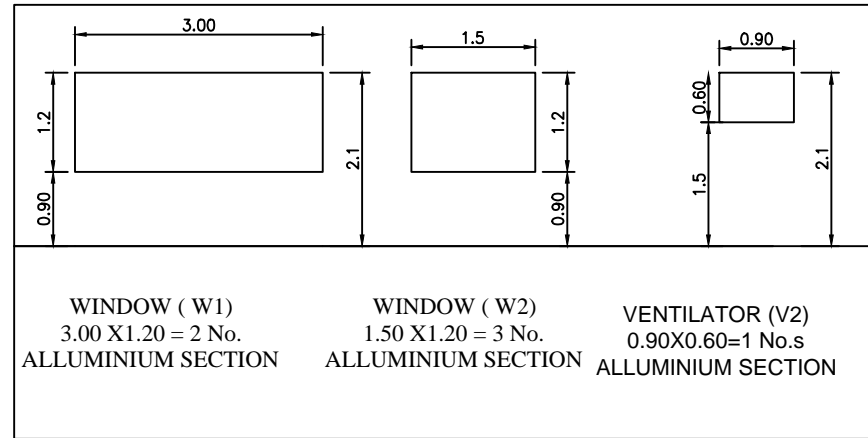
PROPOSED CABL TRENCH

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

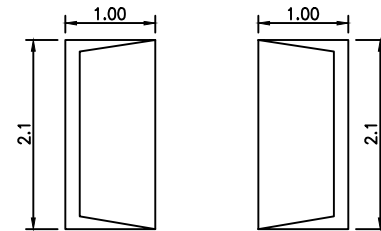
SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	NTS	REC/DDUGJY/CIVIL/12	1 OF 1	0



**FIRST FLOORWORKING PLAN**



**WINDOW FRAME DETAIL**



**DOOR FRAME DETAIL**

FOR TENDER PURPOSE ONLY



Rural Electrification Corporation Ltd.

PROJECT:

Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

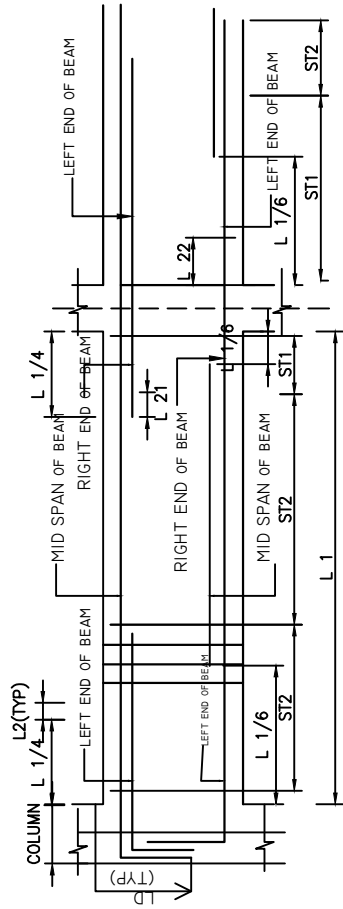
TITLE

FIRST FLOOR WORKING & OPENING DETAIL

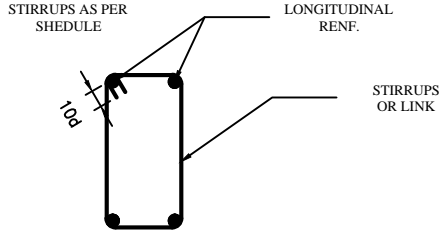
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REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
A4	1:100	REC/DDUGJY/CIVIL/13	1 OF 1	0



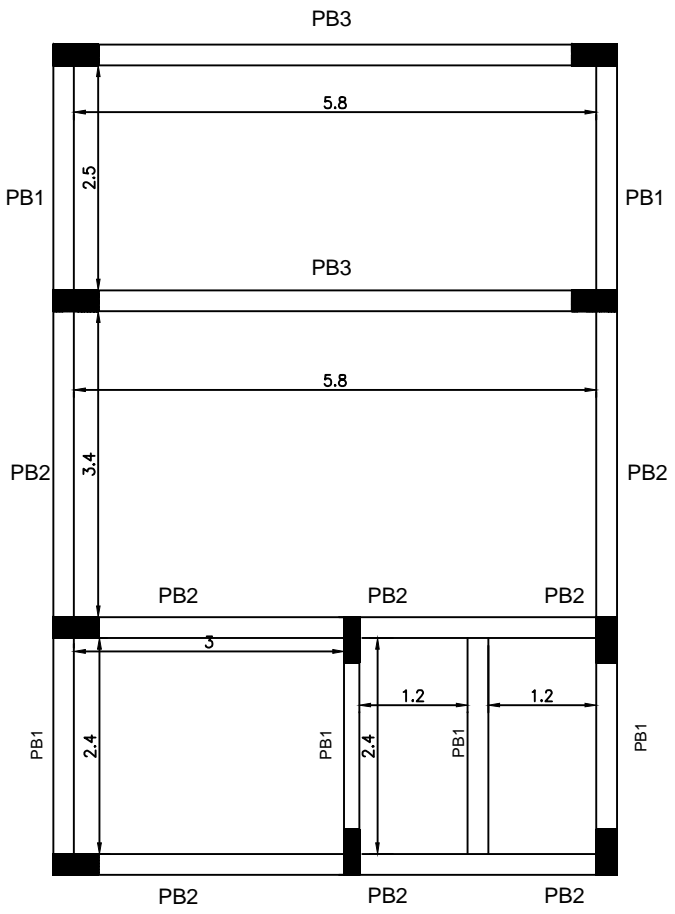


TYPICAL SECTION OF BEAM



TYPICAL STIRRUPS OR LINKS DETAILS

DEVELOPMENT LENGTH 'LD' LD FOR HYSD BARS WITH Fy=415 N/MMSQ.	
CONCRETE GRADE	Ld
M:20	47X DLA



GROUND FLOOR PLINTH BEAM

PLINTH BEAM DETAILS

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

FOR TENDER PURPOSE ONLY



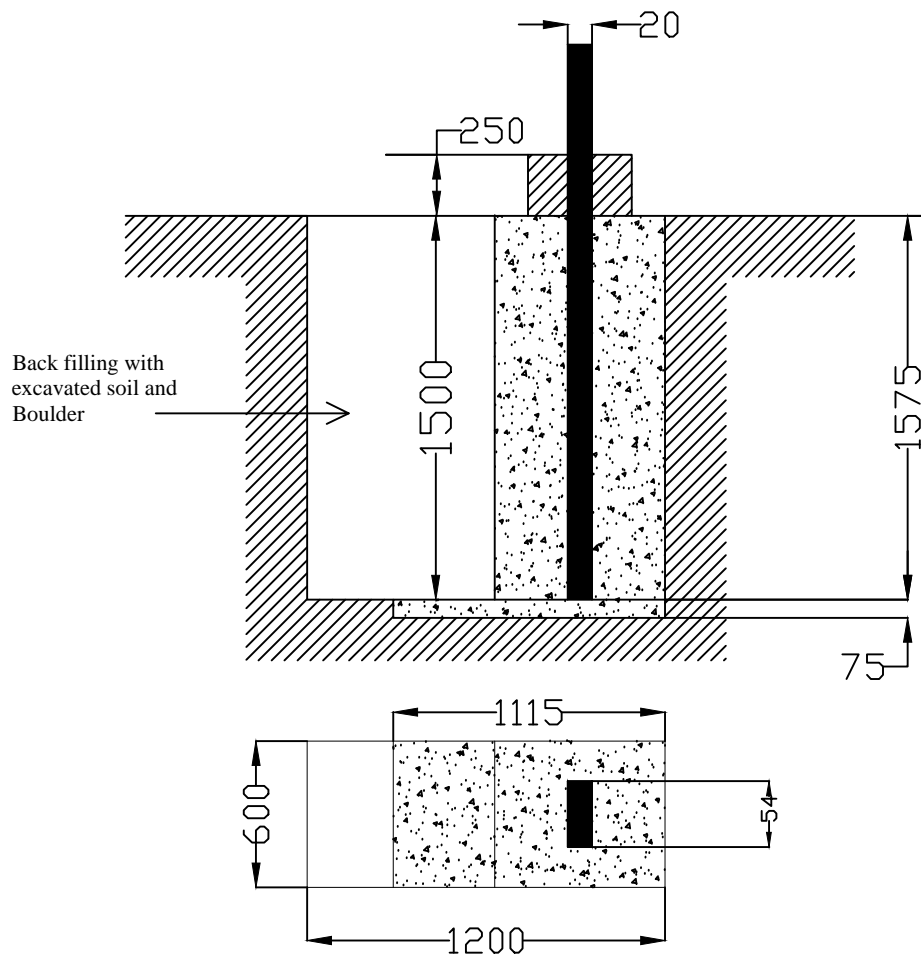
Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)

TITLE: GROUND FLOOR PLINTH BEAM PLAN & DETAILS

R0					
REV. NO.	PREPARED	CHECKED	APPROVED	DATE	PROJECT

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



FOR TENDER PURPOSE ONLY

All dimensions are in mm.

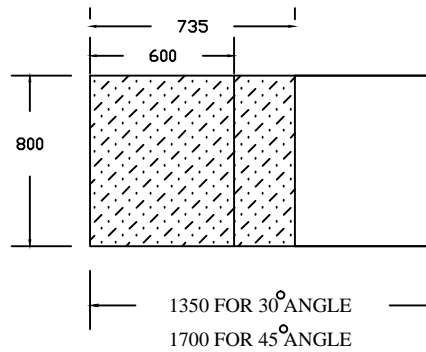
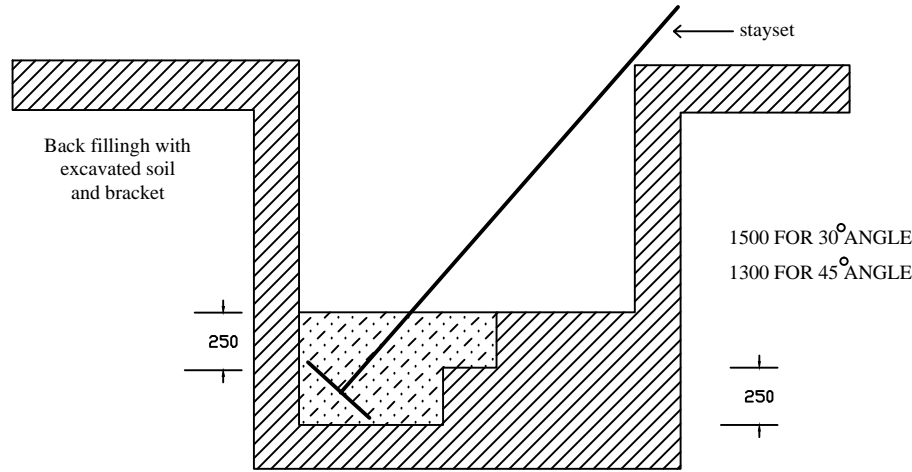


Rural Electrification Corporation Ltd.

PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

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

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



All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**

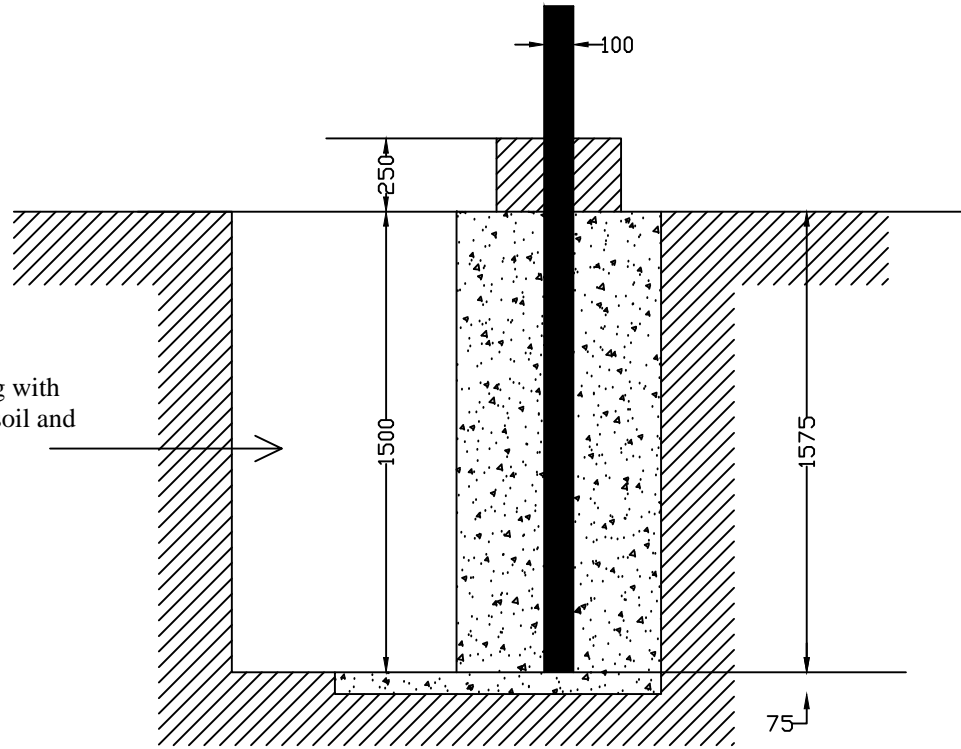


Rural Electrification Corporation Ltd.

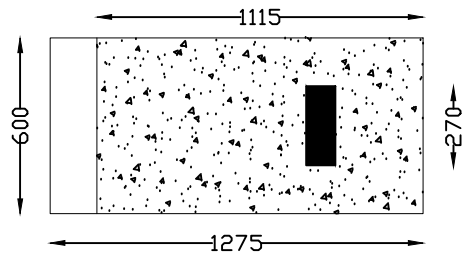
PROJECT: Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

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

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



Back filling with excavated soil and Boulder



All dimensions are in mm.

**FOR TENDER PURPOSE ONLY**



Rural Electrification Corporation Ltd.

PROJECT:  
Deen Dayal Upadhyaya Gram Jyoti Yojana( DDUGJY)

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

REV. NO.	PREPARED BY	CHECKED BY	APPROVED BY	DATE	PROJECT	SIZE	SCALE	DRG. NO.	SHT. NO.	REV. NO.
R0						A3	NTS	REC/DDUGJY/CIVIL/17	1 OF 1	0