...ए हित में बिजली बचाये
...CTRICITY IN THE INTEREST OF
...TION

...ाश / Ph.: 0121-2665734
...ैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.
Paschimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.: 16920/PVVNL-MT/IPDS/335/15-16. **Dated: 05.11.2016**

Subject:- Regarding approval of 250 KVA & 400 KVA distribution transformer plinth drawing against tender No. PVVNL-MT/IPDS/335/15-16.

M/s Tata Projects Ltd.,
Ground Floor Tower-B Green Boulevard,
Plot No. B-9/A, Sector-62,
Noida-201307(UP)

Email: abhikpal@tataprojects.com

Dear Sir,

Please refer to your letter No. TPL/Noida/PVVNL/IPDS/17 dt. 03.11.16 regarding approval of the Drawing of the 250 & 400 KVA distributions transformer plinth. This approval is subject to the following conditions:-

Correction wherever required in Drawing submitted by the contractor has been done by red ink However, the correctness of Drawing as per technical specification of the SBD for IPDS/DDUGJY and the entire responsibility of the correctness of the Drawing as per the specification shall be that of the contractor.

In case of any contradiction between Drawing & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to reconstruct the plinth entirely with the new material to the satisfaction of purchaser.

One copy of approved drawing is enclosed herewith. This drawing shall be treated as approved for all tenders under DDUGJY and IPDS scheme.

Encl.: As above

Your's faithfully

(Anil Kumar)
Superintending Engineer (MM-2)

No.: 16920/PVVNL-MT/IPDS/335/15-16. **Dated: 05.11.2016**

Copy forwarded to following for information and necessary action:

1. Chief Engineer, Saharanpur zone, Saharanpur.
2. SE (Equator), PVVNL, Meerut.
3. SE, (EDC & EUDC), Saharanpur/Shamli/Muzaffarnagar
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

(Anil Kumar)
Superintending Engineer (MM-2)

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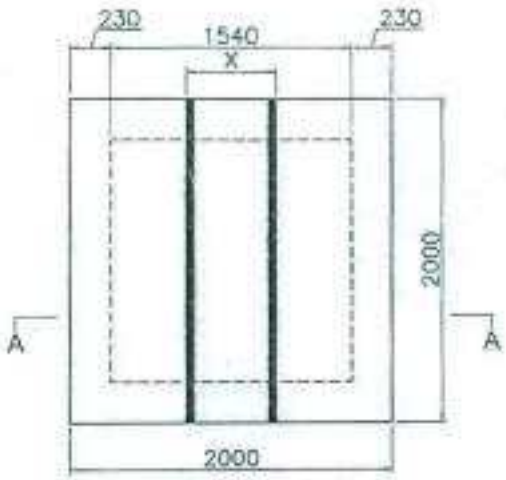
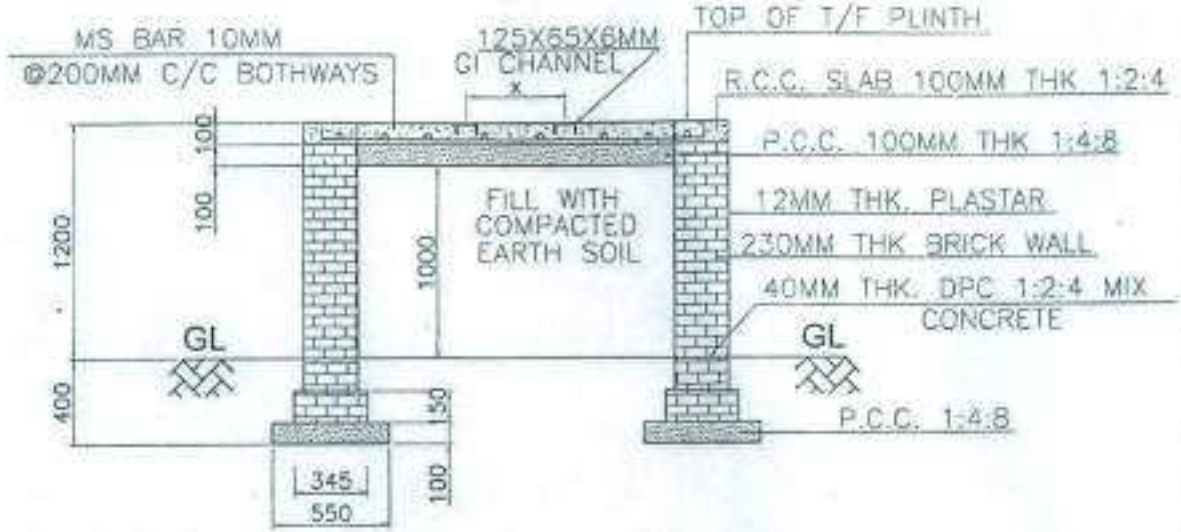


TOP PLAN
FOR GENERAL ARRANGEMENT OF DISTRIBUTION TRANSFORMER



SECTION "A-A"

APPROVED

Chief Engineer
(Meters' Management)
P.V.V.N.L., MEERUT

NOTE:- 1. ALL THE DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. X-SUIT AT SITE TO AS PER TRANSFORMER
4. 12 MM THICK PLASTER WITH CEMENT MORTAR RATIO 1:4
5. I CLASS BRICK WORK FOR SIDE WALL SIZE 230MM WIDE WITH CC RATIO 1:4 (CEMENT & FINE SAND)

checked & recommended

TATA PROJECTS

LOA No.	6496/PVVNL-MZ/DGM/336/15-16 DT.29.06.2016 6493/PVVNL-MZ/DGM/341/15-16 DT. 30.06.2016				
OWNER	PASCHIMANCHAL VIDYUT VITARAN NIGAM LIMITED (PVVNL)				
CONTRACTOR	TATA PROJECTS LIMITED				
PROJECT.	UNDER IPDS SCHEME WORK FOR MORADABAD & SAHARANPUR (ZONE)				
DESCRIPTION	FOUNDATION DETAIL OF 11/0.433 KV (400/250 KVA) DISTRIBUTION TRANSFORMER WITH FRP FENCING (TYPICAL)				
DESIGN BY.	J.S.RAWAT	DATE	29/10/2016	DRAWING No.	
CHECKED BY.	VIJAY B. KR.	SCALE	NTS	TPL-PED-11-07-GA-01	
APPROVED BY.	R. K. Patel	SHEET NO.	1 OF 1	REV.	0

Superintending Engineer

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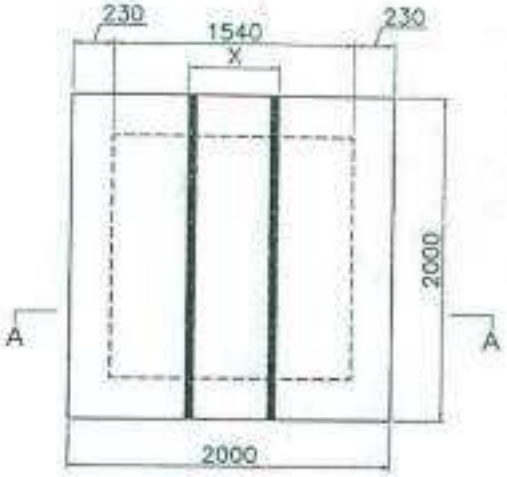
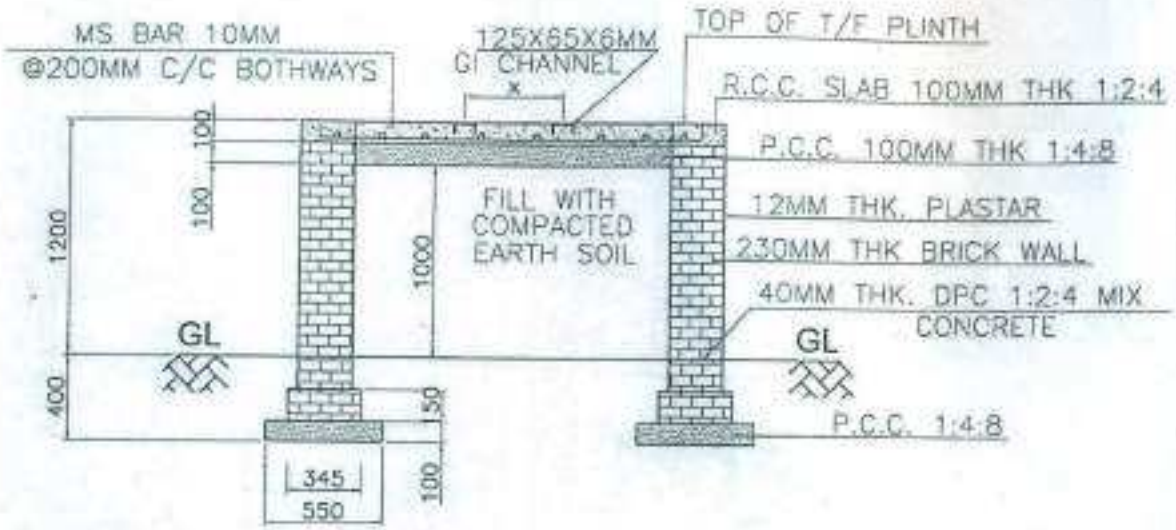


TOP PLAN
FOR GENERAL ARRANGEMENT OF DISTRIBUTION TRANSFORMER



SECTION "A-A"

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT

NOTE:- 1. ALL THE DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
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5. Ist CLASS BRICK WORK FOR SIDE WALL SIZE 230MM WIDE WITH CC RATIO 1:4 (CEMENT & FINE SAND)

checked & recommended

Revision	Date	Description	By	Checked By	Appd
LOA No.	6496/PVVNL-MT/DPD/336/15-16 DT.20.06.2016 6493/PVVNL-MT/DPD/340/15-16 DT 20.06.2016				
OWNER	PASCHIMANCHAL VIDYUT VITARAN NIGAM LIMITED (PVVNL)				
CONTRACTOR	TATA PROJECTS LIMITED GROUND FLOOR, TOWER B, SPACE BOULEVARD, PLOT NO.2, SECTOR 16B, NOIDA-201301 (UP)				
PROJECT.	UNDER IPDS SCHEME WORK FOR MORADABAD & SAHARANPUR (ZONE)				
DESCRIPTION	FOUNDATION DETAIL OF 11/0.433 KV (100/250 KVA) DISTRIBUTION TRANSFORMER WITH FRP FENCING (TYPICAL)				
DESIGN BY.	J.S.RAWAT	DATE	28/10/2016	DRAWING No.	
CHECKED BY.	VIJAY B. KR.	SCALE	NTS	TPL-PED-11-07-DA-01	
APPROVED BY.	K. K. Patel	SHEET NO.	1 OF 1	REV.	0

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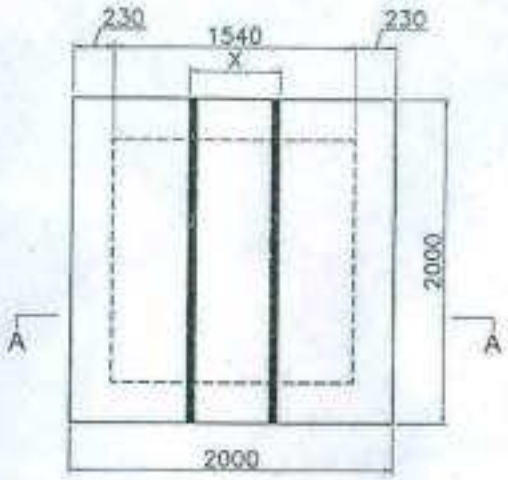
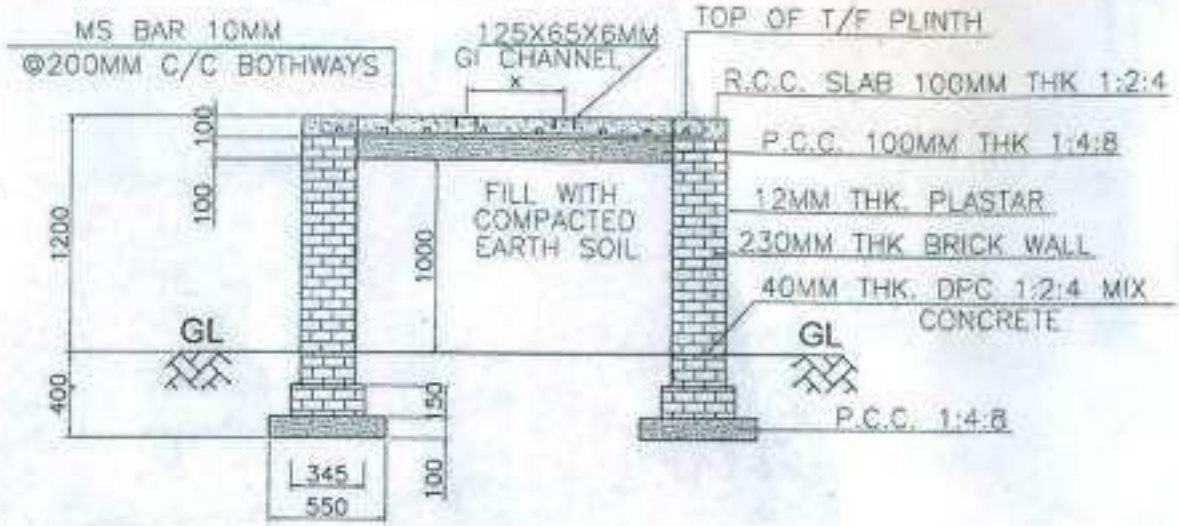


TOP PLAN
FOR GENERAL ARRANGEMENT OF
DISTRIBUTION TRANSFORMER



SECTION "A–A"

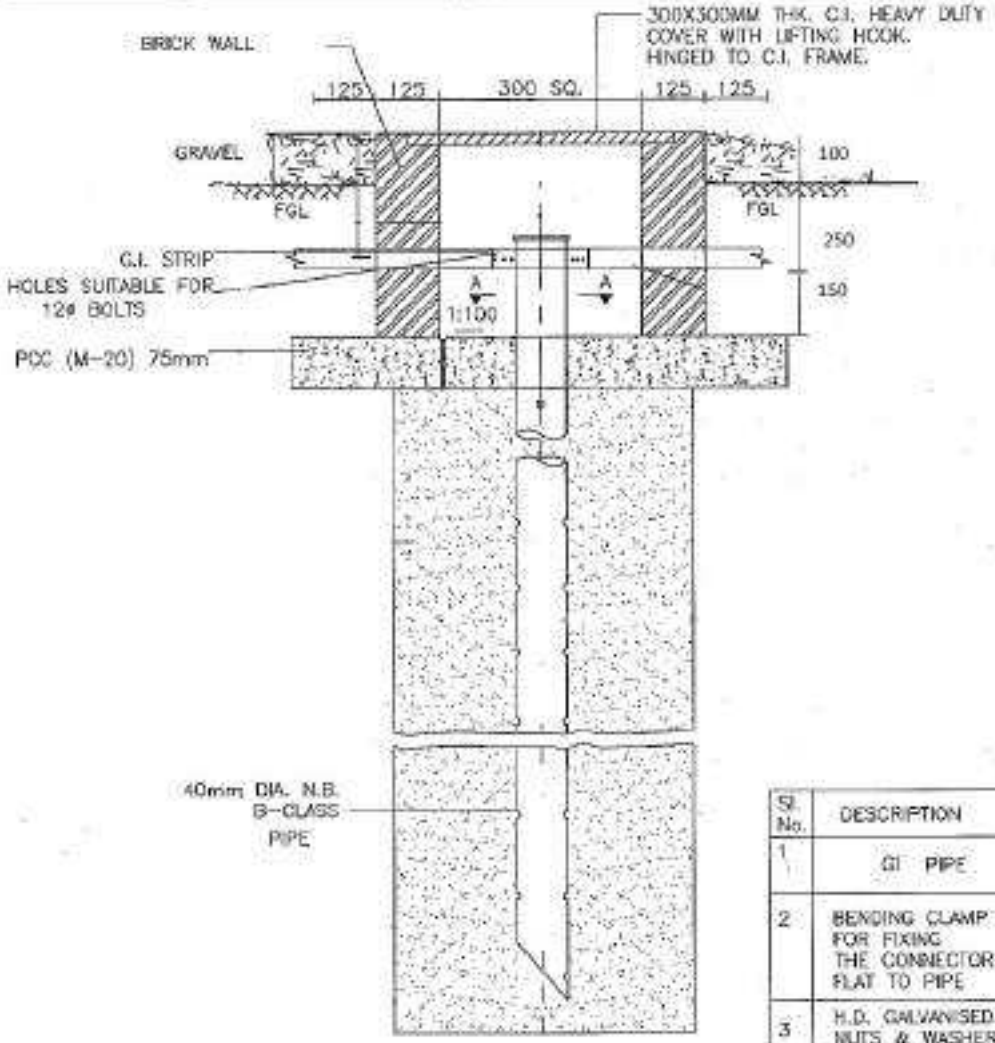
APPROVED
Chief Engineer
(Material Management)
PVVNL, MEERUT

NOTE:– 1. ALL THE DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. X–SUIT AT SITE TO AS PER TRANSFORMER
4. 12 MM THICK PLASTER WITH CEMENT MORTAR RATIO 1:4
5. 1st CLASS BRICK WORK FOR SIDE WALL SIZE 230MM WIDE WITH CC RATIO 1:4 (CEMENT & FINE SAND)

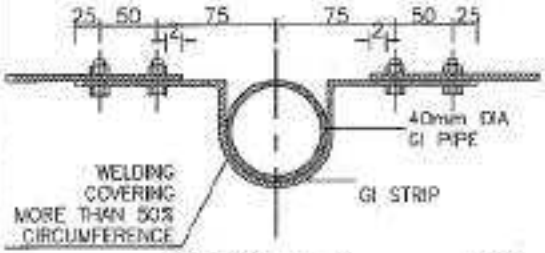
checked & recommended

Revision	Date	Description	By	Checked By	Approved
LOA No.	8400/PVVNL-MT/DPDS/355/15-16 DT.30.06.2016 8401/PVVNL-MT/DPDS/345/15-16 DT. 30.06.2016				
OWNER	PASCHIMANCHAL VIDYUT VITARAN NIGAM LIMITED (PVVNL)				
CONTRACTOR	TATA PROJECTS LIMITED GROUND FLOOR, TOWER-B, GREEN BOULEVARD, PLOT NO.8, SECTOR-16B, NOIDA-201301 (U.P.)				
PROJECT.	UNDER IPDS SCHEME WORK FOR MORADABAD & SAHARANPUR (ZONE)				
DESCRIPTION	FOUNDATION DETAIL OF 11/0.433 KV (500/250 KVA) DISTRIBUTION TRANSFORMER WITH FRP FENCING (TYPICAL)				
DESIGN BY.	T.S.RAWAT	DATE	28/10/2016	DRAWING No.	
CHECKED BY.	VIJAY B. KR.	SCALE	NTS	TPL-PUD-11-07-GA-01	
APPROVED BY.	R. R. Patel	SHEET NO.	1 OF 1	REV.	0

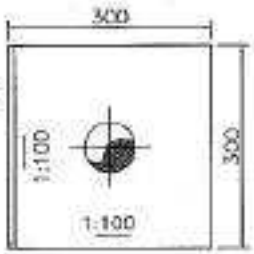
Superintending Engineer



Sl. No.	DESCRIPTION	MATERIAL	QTY.
1	GI PIPE	40 N.B. CLASS-B	1 NO.
2	BENDING CLAMP FOR FIXING THE CONNECTOR FLAT TO PIPE	75MMX10MMX150MM LONG C.I. FLAT	1 NO.
3	H.D. GALVANISED BOLTS, NUTS & WASHERS	12øX35 LONG BOLT NUT AND WASHER ALL GALVANISED	8 NOS
4	C.I. COVER	300X300X6MM THK. C.I. HEAVY DUTY COVER WITH LIFTING HOOK HINGED TO C.I. FRAME	1 NO.



VIEW A-A



TOP VIEW (C.I. COVER)

NOTE:-

All dimensions are in mm.

Project:- IPDS/DDUGJY
PVVNL,Meerut

TITLE:-
Earth Pit Cover for Water Level Earthing

DATE	DRD	SCALE	DRAWING NO.	REV.
		1 OF 1		0

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SAVE ELECTRICITY IN THE INTEREST OF THE NATION

दूरभाष /Ph.: 0121-2665734
फैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय :
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.,
Paschimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.: 3617/ PVVNL-MT/DDUGJY/370/15-16 Dated: 23.05.2017

Subject:- Approval of GTP/Drawing of Material/Equipment for Work of capacity augmentation of 9 no. 33 KV Substations along with construction of 33 KV and 11 KV Line at different places in Electricity Distribution Zone Meerut on partial turnkey basis under Deen Dayal Updahyay Gram Jyoti Yojna (DDUGJY)against tender No. PVVNL-MT/DDUGJY/370/15-16.

M/s Om Veer Singh,
Kayasthbara, Sikandrabad,
Bulandshahr.

Email ID – msomveersingh@gmail.com

Dear Sir,

Please refer to your letter No. Nil dated 18.05.17 regarding approval of the Drawing as detailed below:-

Sl. No.	Material/equipment	Approved Vendor
1.	Fire Protection wall	M/s Omveer Singh, Bulandshahr

This approval is subject to the following conditions:-

1. *The said approval is with the condition the material supplied by the above firms may be sent for testing by independent lab on firm's cost by Managing Director, PVVNL, Meerut.*
2. *M/s* Omveer Singh, Bulandshahr *is not blacklisted/Debarred by any Discom/Govt. Organization.*

Correction wherever required in Drawing submitted by the contractor has been done by red ink However, these Drawing shall be subjected to correctness as per technical specification of the SBD for IPDS/DDUGJY and tender document and the entire responsibility of the correctness of the Drawing as per the specification as well as contract agreement and these Drawing shall be that of the contractor.

In case of any contradiction between Drawing & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to rework to the entire satisfaction of purchaser in case the construction is not found suitable for use in the projects.

One copy of approved Drawings are enclosed herewith. This drawing shall be treated as approved for all tenders under DDUGJY and IPDS scheme.

Encl.: As above

Your's faithfully

(S K Singh)
Superintending Engineer (IPDS & DDUGJY)

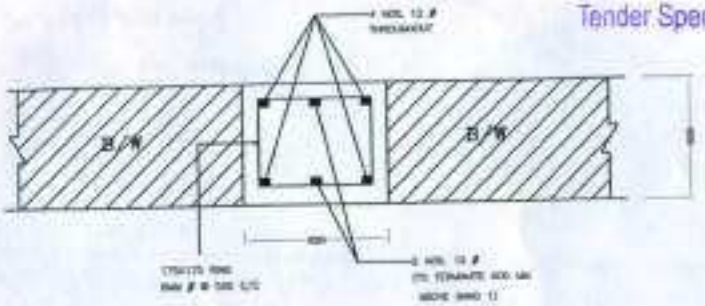
No.: 3617/PVVNL-MT/DDUGJY/370/15-16 Dated: 23.05.2017

Copy forwarded to following for information and necessary action:

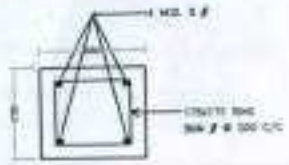
1. Chief Engineer, Meerut zone, Meerut.
2. SE (Equator), PVVNL, Meerut.
3. SE, EDC/EUDC Meerut & Baghpat
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

(S K Singh)
Superintending Engineer (IPDS & DDUGJY)

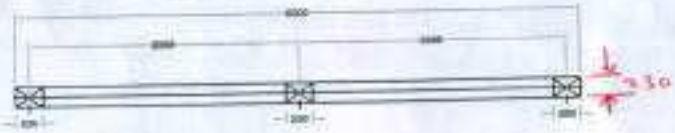
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/370/15-16



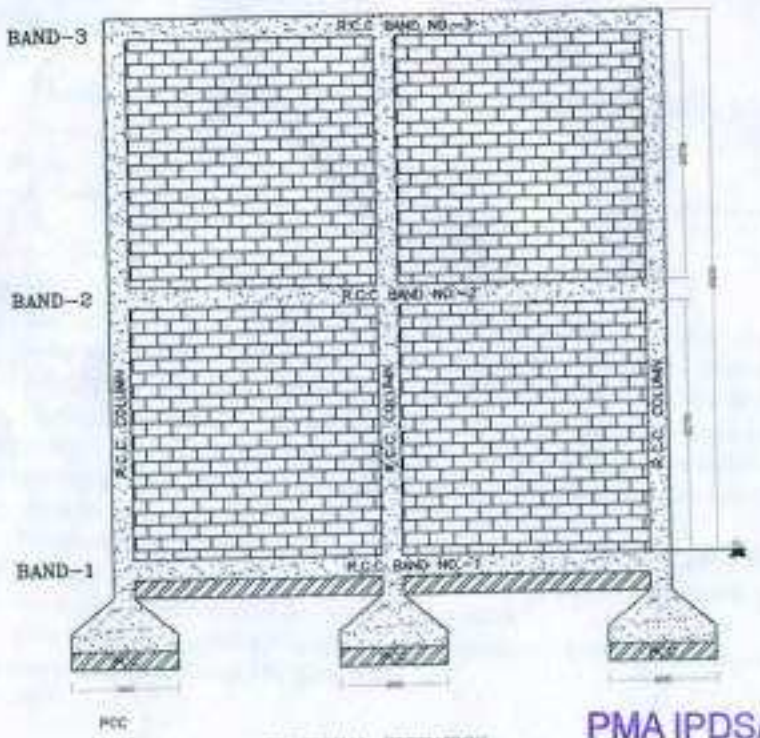
DETAILS OF COLUMN



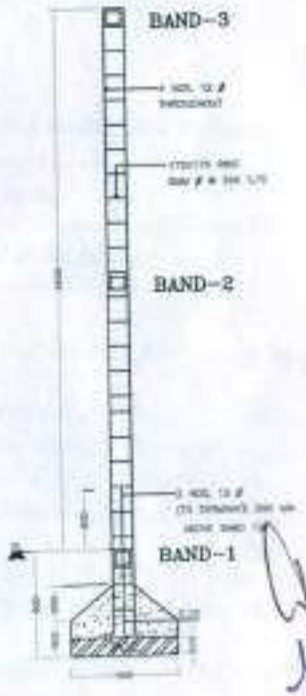
BAND 1,2 & 3



PLAN OF WALL/COLUMN



SECTIONAL ELEVATION



SECTION OF COLUMN

SPECIFICATION:-
1. ALL DIM. ARE IN MM
2. GL TO GROUND LEVEL
3. ALL LEAN CONCRETE SHALL BE OF PCC M7.5 (1:4:8)
4. ALL RCC USED SHALL BE OF GROUND M20

TITLE:-
FIRE PROTECTION WALL

CLIENT:-
PASCHIMANCHAL VIDYUT VITRAN NIGAM LTD.
URJA BHAWAN, VICTORIA PARK, MEERUT.

PROJECT:-
DDUGJY 9 NOS. CAPACITY AUGMENTATION OF 33/11KV SUBSTATION

CONTRACTOR:-
M/S OMVEER SINGH

TENDER NO.:-
10693/PVVNL-MT/DDUGJY/370/15-16

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

SIZE A4 | REV.

RELEASED FOR: ☑ APPROVAL ☑ CONSTRUCTION

PMA IPDS/DD
RECPDCL

...-MT/DDUGJY/370/15-16
Copy forwarded to following for information and necessary action:
1. ...

... Engineer (IPDS & DDUGJY)
Dated: 23.05.2017

...ला बचायें
...E ELECTRICITY IN THE
INTEREST OF THE NATION

दूरभाष / Ph.: 0121-2665734
फैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय :
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.
Paschimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.: 18707/ PVVNL-MT/ IPDS/335/15-16 Dated: 2.12.2016

Subject:- Approval of GTP/Drawing of Material/Equipment for Work of Construction of 33 KV Line, 11 KV Line, LT Line, Installation of New 11/0.4 KV Transformers, Augmentation of 11/0.4 KV Transformers & other works at different places of Electricity Distribution Zone Saharanpur on partial-turnkey basis under Integrated Power Development Scheme (IPDS) Against Tender specification no. PVVNL-MT/IPDS/335/15-16.

M/s Tata Projects Limited,
Ground Floor Tower-3 Green Boulevard,
Plot No. B-9/A, Sector-62,
Noida-201307 UP.

Email ID - abhikpal@tataporojects.com

Dear Sir,

Please refer to your letter No. TPL/NOIDA/PVVNL/IPDS/16 dated 03.11.2016 regarding approval of the **General Construction GA drawings** as detailed below:-

Sl. No.	Material/equipment	Approved Vendor
1.	**General Construction GA drawings**	M/s Tata projects Limited, Noida

Correction wherever required in Drawing submitted by the contractor has been done by red ink However, these Drawings shall be subjected to the correctness as per technical specification of the SBD for IPDS and tender document and the entire responsibility of the correctness of the Drawings as per the specification as well as according to the contract agreement and these Drawings shall be that of the contractor.

In case of any contradiction between Drawing & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to work to the entire satisfaction of purchaser in case the work is not found suitable in the projects.

One copy of approved Drawings are enclosed herewith. These Drawings shall be treated as approved for all tenders under IPDS scheme.

Encl.: As above

Your's faithfully

(G.K Gupta)
Chief Engineer (MM)

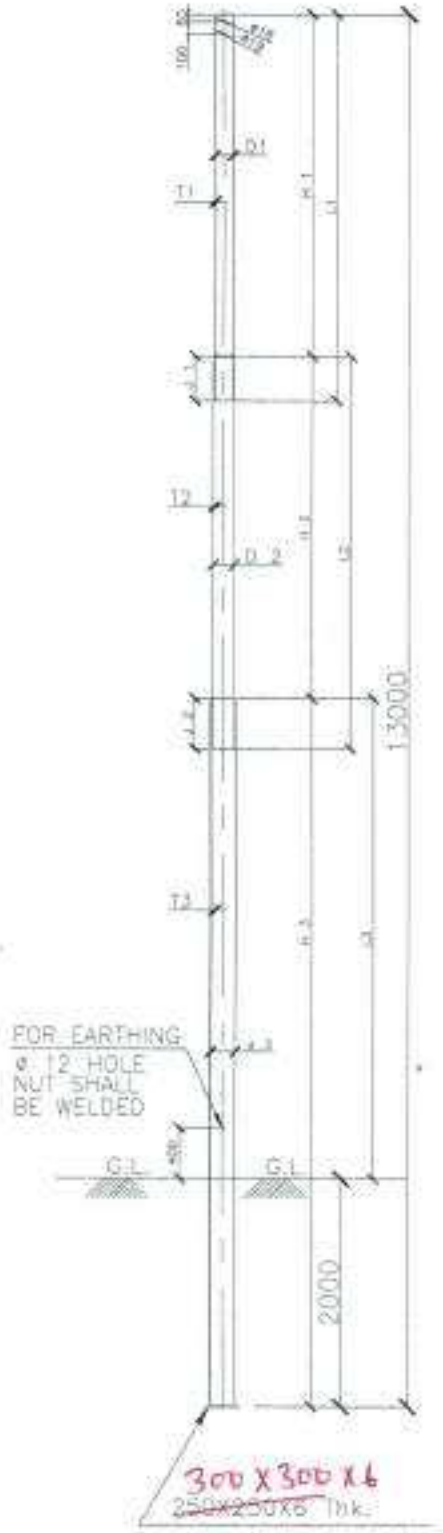
No.: 18707/ PVVNL-MT/ IPDS/335/15-16 Dated: 2.12.2016

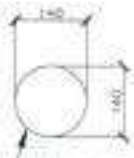
Copy forwarded to following for information and necessary action:

1. Chief Engineer, Saharanpur Zone, Saharanpur.
2. SE (Equator), PVVNL, Meerut.
3. SE (EDC/EUDC), Saharanpur/Muzaffarnagar/Shamli.
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

((G.K Gupta)
Chief Engineer (MM)

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16
APPROVED





165 ø CONVEX SHAPE
M.S.PLATE (COVER PLATE)
TO BE WELDED AT TOP

300X300X6 Thk.
PLATE (BASE PLATE)
TO BE WELDED AT BOTTOM

TABLE -1		
HEIGHT OF SECTIONS (In mm)		
H1	H2	H3
3600	3600	5800

TABLE -2		
Diameter of Sections (In mm)		
D1	D2	D3
165.1	193.7	219.1

TABLE -3		
Thickness of Sections (In mm)		
T1	T2	T3
4.5	4.85	5.90

TABLE -4	
Length of Joints (In mm)	
J1	J2
400	450

TABLE -5		
LENGTH OF SECTIONS (In mm)		
L1	L2	L3
4000	4450	6250

NOTES:-

1. ALL DIMENSION ARE IN MM OTHERWISE SPECIFIED
2. THE POLES SHALL BE COATED WITH BITUMINIOUS PAINTS INTENSELY AND EXTERNALLY UPTO THE LEVEL WHICH GOES INSIDE THE EARTH AND REMAINING PORTION OF EXTERIOR SHALL BE PAINTS WITH ONE COAT OF RED OXIDE PRIMER
3. APPLIED LOAD FROM TOP = 0.6 M
4. PLANTING DEPTH = 2.0 M
5. TOTAL WEIGHT OF POLE = 343 KG
6. THIS DRAWING IS BASED ON IS: SP-72 (~~410~~ MPa) 540
   IS: 2713:1980(PART II)

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be ensured by RC during inspection"

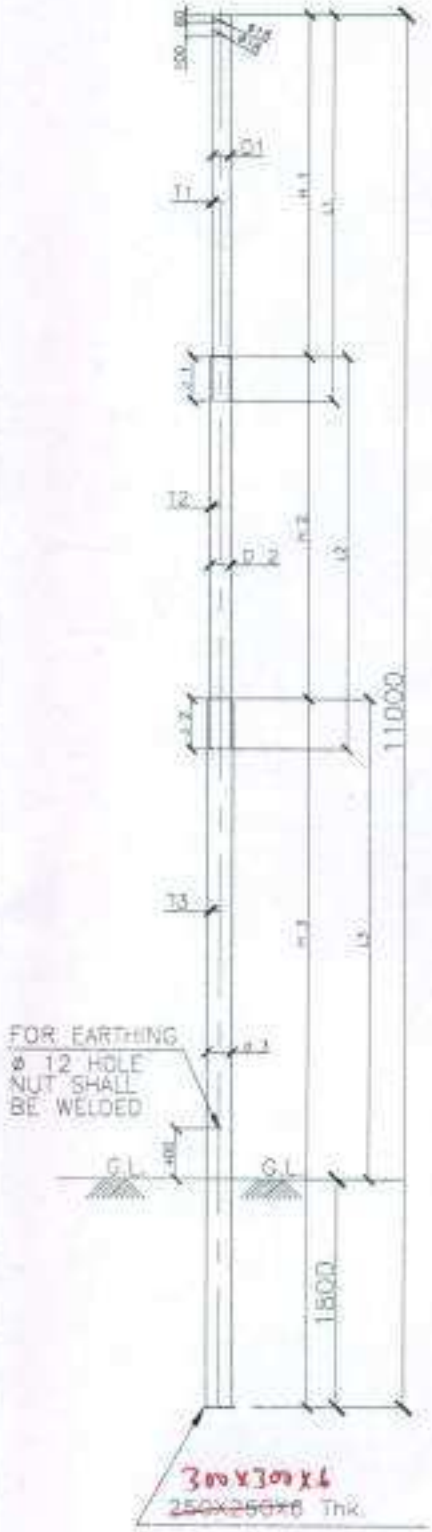
PMA IPDS/DDUGJY
RECPDCL

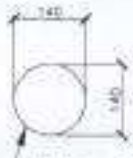
Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/06/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	[illegible]
OWNER:	PAUR VIDYUT VITARAN NIGAM LIMITED (PVVNL)
CONTRACTOR:	TATA PROJECTS LIMITED, 1st FLOOR, TOWER-1, DATA CENTRE, B-2, SECTOR-62, NOIDA-201301 (U.P.)
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE 13 M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-13-01

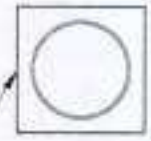
THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF TATA PROJECTS LTD IT SHALL NOT BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE PRIOR WRITTEN PERMISSION OF THE COMPANY.

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16





165 ø CONVEX SHAPE
M.S.PLATE (COVER PLATE)
TO BE WELDED AT TOP



300X300X6 Thk.
PLATE (BASE PLATE)
TO BE WELDED AT BOTTOM

TABLE-1		
HEIGHT OF SECTIONS (In mm).		
H1	H2	H3
2700	2700	5600

TABLE-2		
Diameter of Sections (In mm).		
D1	D2	D3
139.7	165.1	193.7

TABLE-3		
Thickness of Sections (In mm).		
T1	T2	T3
4.5	4.5	4.85

TABLE-4	
Length of Joints (In mm).	
J1	J2
350	400

TABLE-5		
LENGTH OF SECTIONS (In mm).		
L1	L2	L3
3050	3450	6000

NOTES:-

1. ALL DIMENSION ARE IN MM OTHERWISE SPECIFIED
2. THE POLES SHALL BE COATED WITH BITUMINIOUS PAINTS INTENSELY AND EXTERNALLY UPTO THE LEVEL WHICH GOES INSIDE THE EARTH AND REMAINING PORTION OF EXTERIOR SHALL BE PAINTS WITH ONE COAT OF RED OXIDE PRIMER
3. APPLIED LOAD FROM TOP = 0.6 M
4. PLANTING DEPTH = 1.8 M
5. TOTAL WEIGHT OF POLE = 227 KG
6. THIS DRAWING IS BASED ON IS: SP-55 (410 MPa) IS: 2713:1980(PART II)

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and adequacy of material according to the Specification / Type test report / GTP shall be with the supplier."

PMA IPDS/DDUGJY

RECPDCL

1					
0	03/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Paul
Rev	Date	Description	DRAWN BY.	CHECKED BY	APPROVED BY

LOA No.	[illegible]
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE 11 M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-11-01

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GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

NOTE:-

1. All Dimensions are in mm. Unless otherwise Specified.
2. Drawing As Per IS 2551
3. The thickness of SMC (sheet moulding compound) plate for danger board shall be of 2 mm (14SWG)
4. Hole Dia for shall be 12 mm for 10 mm Bolts
5. The corners of the plate should be rounded off
6. The letter figures and the conventional skull and bones of plate shall be in a signal red on the font of the board

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the supplier which is to be checked at the time of inspection."

PMA IPDS/DDUGJY
RECPDCL

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/06/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Pant

LOA No.	6400/PVVNL-MT/IPDS/335/15-16 DT. 20/06/2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	11 KV DANGER BOARD
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No. TPL-PVVNL-ACC-01

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GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

NOTE:-

1. All Dimensions are in mm. Unless otherwise Specified.
2. Drawing As Per IS 2551
3. The thickness of SMC (sheet moulding compound) plate for danger board shall be of 2 mm (14SWG)
4. Hole Dia for shall be 12 mm for 10 mm Bolts
5. The corners of the plate should be rounded off
6. The letter figures and the conventional skull and bones of plate shall be in a signal red on the font of the board

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

PMA IPDS/DDUGJY
Ashish
RECPDCL

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/08/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. H. Patel

LOA No.	6400/PVVNL-MT/IPDS/335/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1 OKAYA CENTRE, B-8, SECTOR-62 NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33 KV DANGER BOARD
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-ACC-02

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GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/1/16

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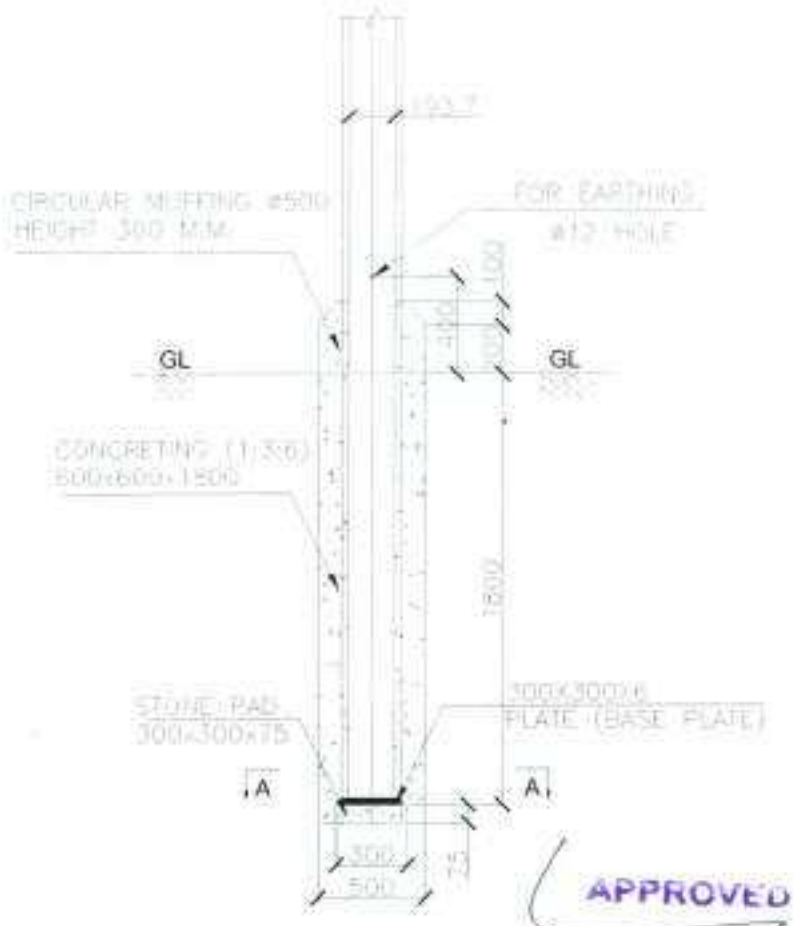
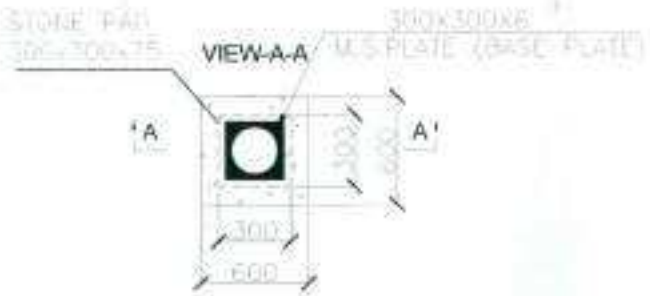


S.NO.	DESCRIPTION	Vol. in M³
1	Excavation	0.469
2	Concreting (1:3:6)	0.445



NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified
2. Pole Drawing As Per IS 2713 - 1980(Part II), SP-55(410Mpa)

APPROVED

Chief Engineer
(Materiel Management)
P.V.V.N.L.,MEERUT
*Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be carried out.

PMA IPDS/DDUGJY
Ashish
RECPDCL

1				
0	02/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR. / K.R. Patel
Rev	Date	Description	Drawn By	Checked By / Approved By

LOA No.	649/PVVNL-MT/IPDS/335/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1 ONAYA CENTRE, B-5, SECTOR-62 NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL FOR 11M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No. TPL-PVVNL-SHP-17-11M-01

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/33.../15-16

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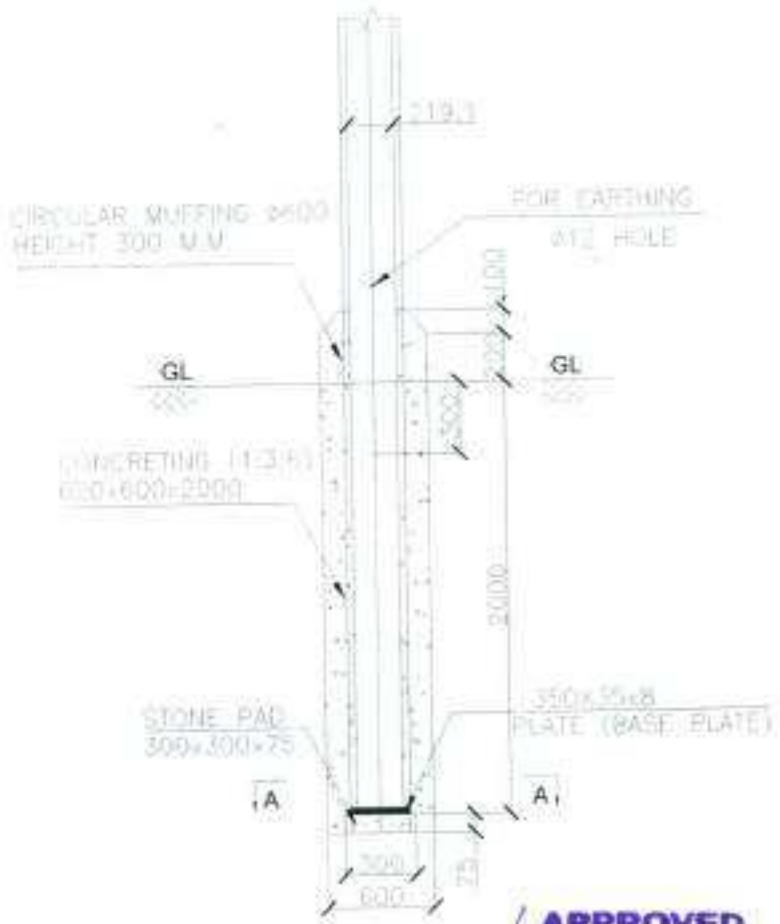
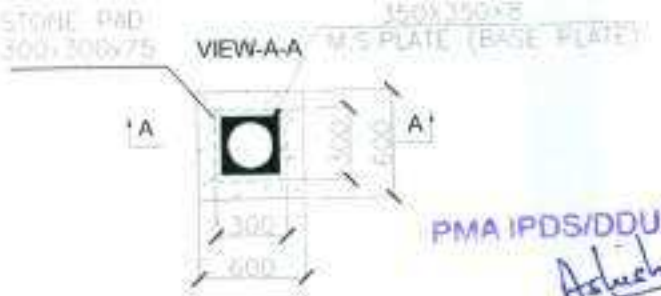


S.NO.	DESCRIPTION	VOL. in M^3
1	Excavation	0.247
2	Concreting (1:3:6)	0.680



PMA IPDS/DDUGJY
RECPDCL

NOTE:-
1. All Dimensions are in mm unless otherwise Specified.
2. Pole Drawing As Per IS 2713 - 1980(Part I), SP-7(540Mpa)

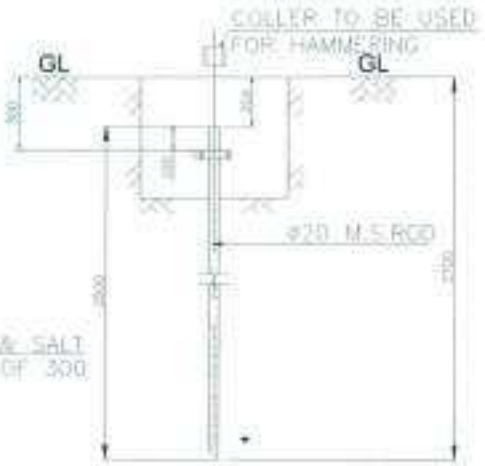
APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall [illegible] the contractor which is to [illegible]"

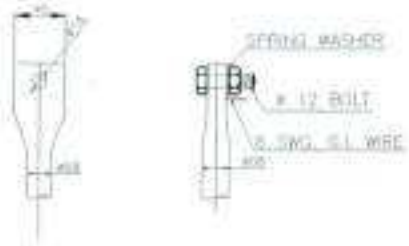
1				
0	02/06/2015	Release for Approval	SANDEEP KR. / SANDEEP KR.	K. R. Patel
Rev.	Date	Description	Drawn / Checked	Approved

LOA No.	6906/PVVNL/MD/IPDS/33/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1 OKAYA CENTRE S-5, SECTOR-62 NOIDA-201301 U.P.
PROJECT	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL FOR 13 M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No. TPL-PVVNL-STP-13-PDN-01

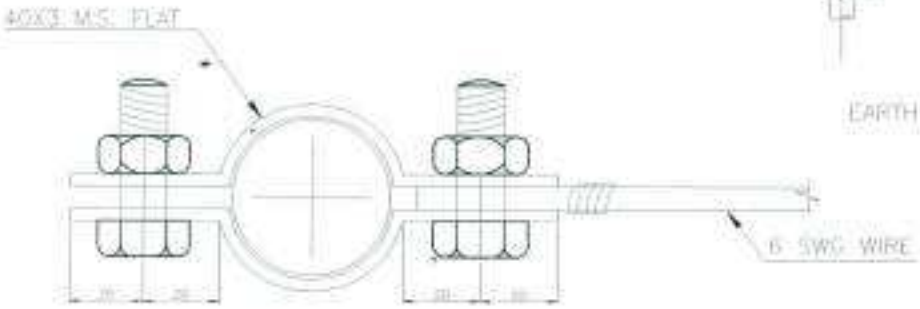
EARTHING FOR HARD, STIFF
OR MEDIUM CLAY



EARTHING FOR ORDINARY SOIL
WHERE PIPE COULD BE HAMMERED IN



EARTH CONNECTOR



TYPICAL DETAIL OF CLAMP
FOR PIPE EARTH

PMA IPDS/DDUGJY
Ashish
RECPDCL

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
EF	Clamp for Earth pipe	40x3	146	0.042	2	0.275
				TOTAL :		0.275
1	Bolts & Nuts	M12	30	0.057	2	0.114
2	Spring Washers	M12	5.5mm THK	0.006	2	0.012
				TOTAL :		0.136

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

Rev	Date	Description	DRAWN By	CHECKED By	APPROVED By
1					
0	02/08/2013	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	6-90/PVVNL-MT/IPDS/733/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,OKAYA CENTRE, B-5, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	ROD TYPE EARTHING ARRANGEMENT FOR 33& 11 KV HT LINE 20 MM DIA 2.5 M. LONG
SCALE NTS	SHEET NO. 1 OF 1 DRAWING No. TPL-PVVNL-EA-01

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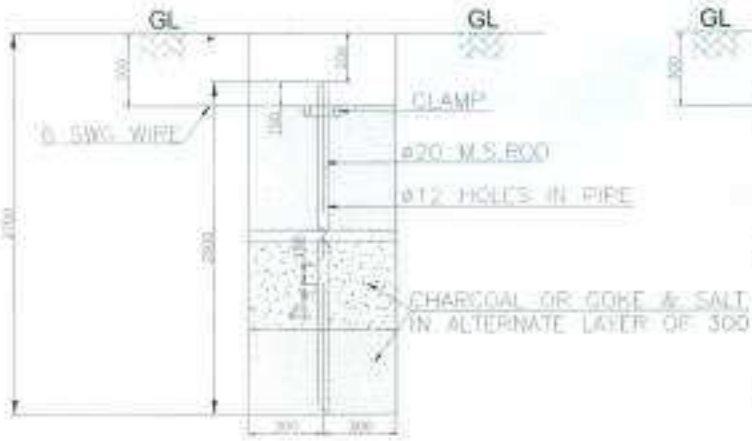
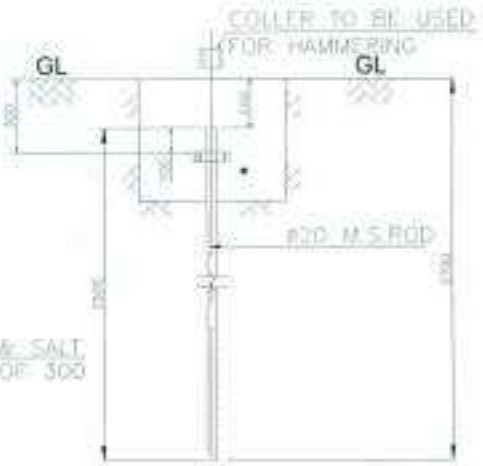
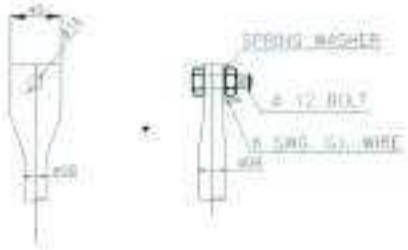


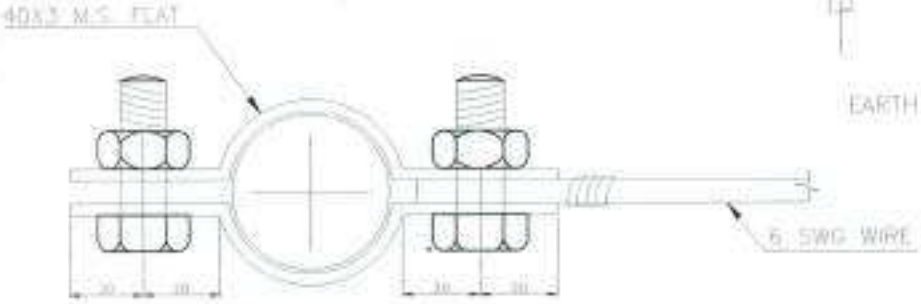
EARTHING FOR HARD, STIFF
OR MEDIUM CLAY



EARTHING FOR ORDINARY SOIL
WHERE PIPE COULD BE HAMMERED IN



EARTH CONNECTOR



TYPICAL DETAIL OF CLAMP
FOR PIPE EARTH

PMA IPDS/DDUGJY
Ashish
RECPDCL

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
EP	Clamp for Earth pipe	40x3	146	0.942	2	0.275
				TOTAL :		0.275
1	Bolts & Nuts	M12	30	0.057	2	0.114
2	Spring Washers	M12	3.5mm thk.	0.006	2	0.012
				TOTAL :		0.136

1					
0	02/06/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. B. Patel
Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY

LOA No.	6,000/PVVNL-MD/IPDS/233/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1 OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	ROD TYPE EARTHING ARRANGEMENT FOR LT LINE 20 MM DIA 2.5 M. LONG
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-E4-02

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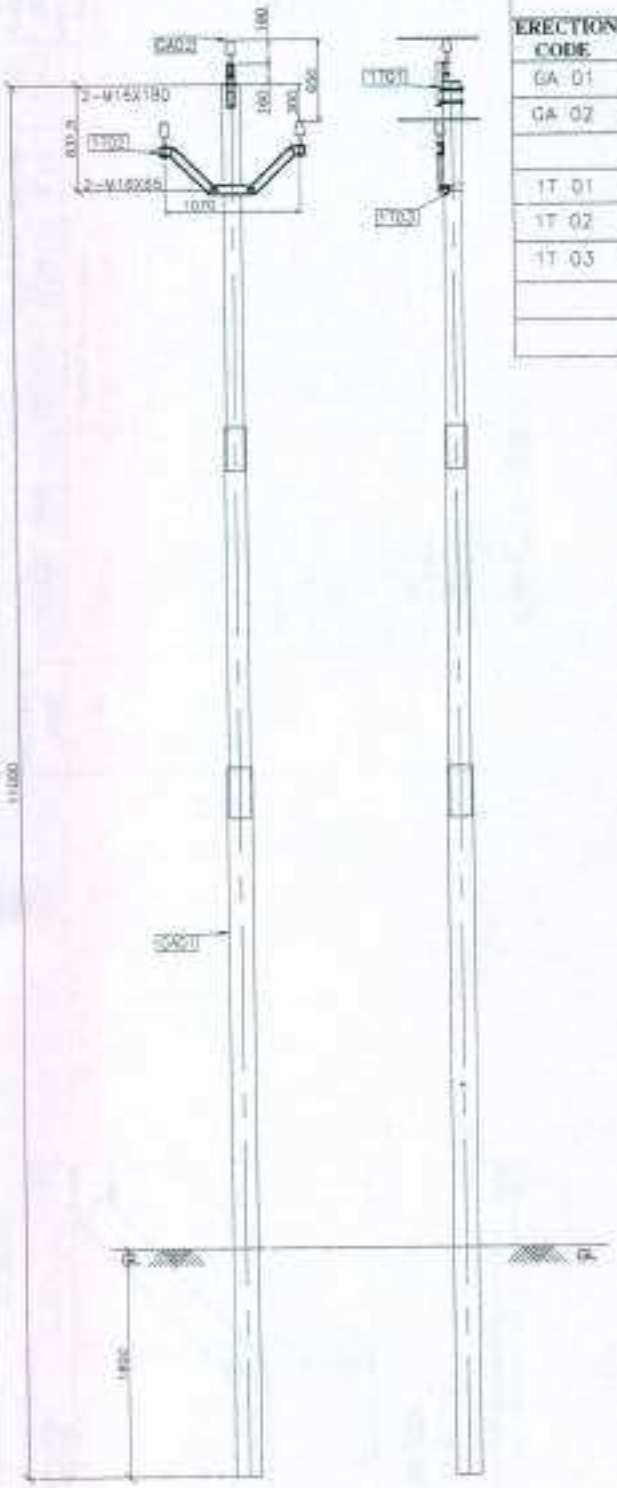
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16



BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	11KV Pin Insulators	3 Nos.	
1T 01	F Bracket	1 No.	TPL-PVVNL-11-11-GA-01
1T 02	V-Cross arm	1 No.	TPL-PVVNL-11-11-GA-01
1T 03	Back Clamp For V X-arm	1 No.	TPL-PVVNL-11-11-GA-01
	Spike Earthing	1 No.	
	Foundation	1 No.	

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

PLAN

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
5. ALL MS PARTS SHALL CONFORM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFORM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

PMA IPDS/DDUGJY
RECPDCL

LOA No.	6490/PVVNL-MT/IPDS/335/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED, 1st FLOOR, TOWER-1, OKAYA CENTRE, B-8, SECTOR-62, NOIDA-201301 (UP)
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 11Kv Line Formation on 11 mtr. STP Poles (In Line Location)
SCALE NTS	SHEET NO. 1 OF 2	DRAWING No. TPL-PVVNL-11-11-GA-01

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

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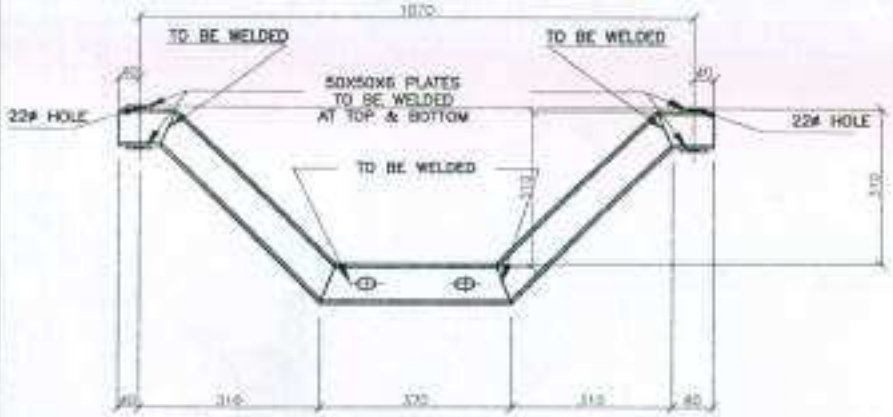
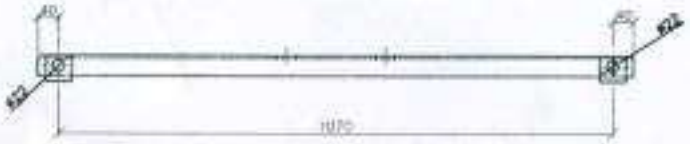


ELEVATION



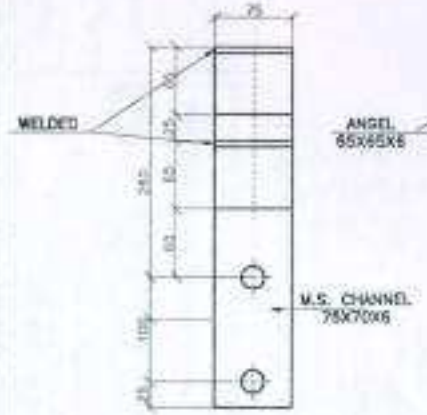
PLAN

1T02. V-CROSS ARM

BILL OF MATERIAL						
ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	F Bracket	75x40X6	345	5.70	1	1.967
		65x65X6	150	5.80	2	1.740
1T 02	V - Cross Arm	100x50X6	1407	7.90	1	11.115
		50X6	50	2.36	4	0.472
1T 03	Back Clamp for V X-arm	50X8	465	3.14	1	1.460
TOTAL WEIGHT :						16.754
1	Bolts & Nuts	M16	65	0.164	2	0.328
2	Bolts & Nuts	M16	180	0.334	2	0.668
3	Spring Washers	M16		0.009	4	0.036
4	Flat Washers	M16		0.014	4	0.056
TOTAL WEIGHT :						1.088

APPROVED

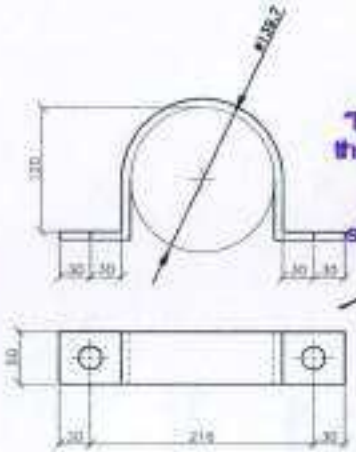
Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / Co shall be that of the contractor which shall be checked during inspection."



ELEVATION

END VIEW

1T01. F BRACKET



1T03. BACK CLAMP
V-X ARM (50X8)

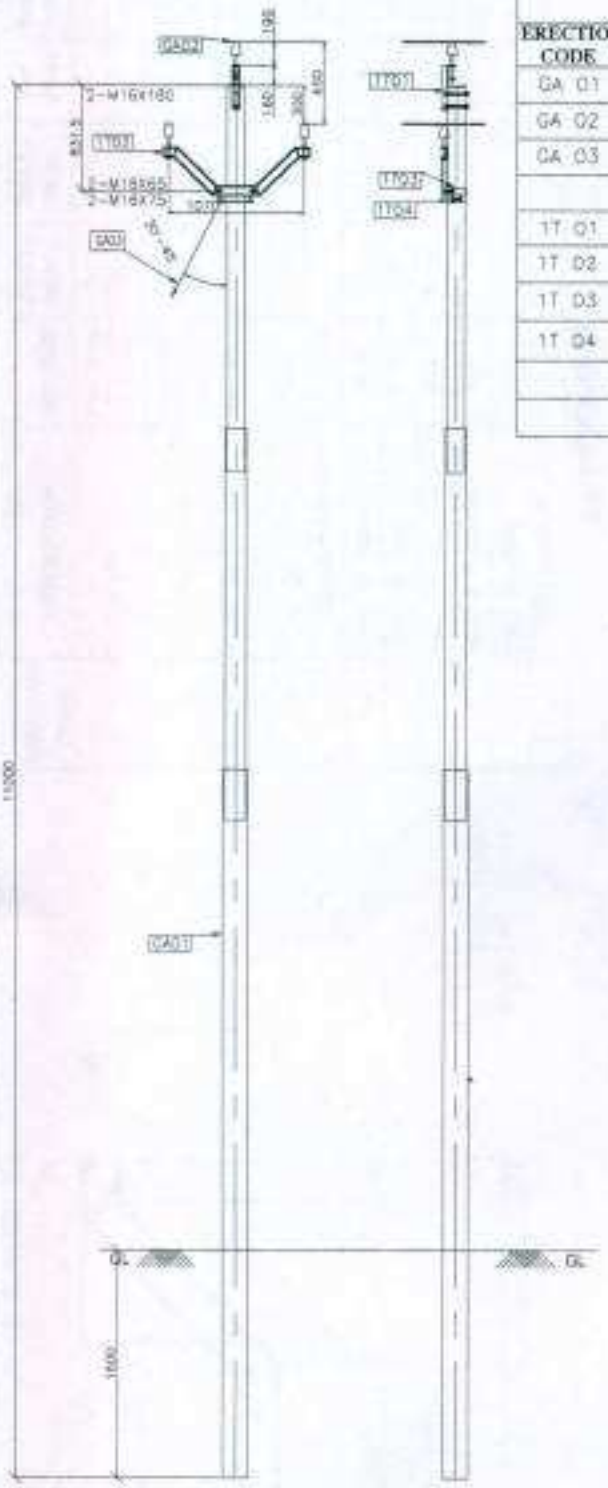
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL BOLTS ARE 16MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SPANNER HOLES ARE 36MM LONG AND 16MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. ALL MS PLATES IS AS PER IS 1852.
5. ALL MS ANGLES SHALL CONFIRM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

PMA IPDS/DDUGJY
RECPDCL

LOA No.	6490/PVVNL-MT/IPDS/133/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,OKAYA CENTRE, B-4, SECTOR-60,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 11Kv Line Formation on 11 mtr. STP Poles (In Line Location)
SCALE NTS	SHEET NO. 2 OF 2 — DRAWING No. TPL-PVVNL-11-11-GA-01

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16



BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	11KV Pin Insulators with GI pins	3 Nos.	
GA 03	Stay Set Arrangment	1 Nos.	
1T 01	F Bracket	1 No.	TPL-PVVNL-11-11-GA-02
1T 02	V-Cross arm	1 No.	TPL-PVVNL-11-11-GA-02
1T 03	Back Clamp For V X-arm	1 No.	TPL-PVVNL-11-11-GA-02
1T 04	Stay set Clamp	1 No.	TPL-PVVNL-11-11-GA-02
	Spike Earthing	1 No.	
	Foundation	1 No.	

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

PLAN

NOTE:- 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 38MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
5. ALL MS PARTS SHALL CONFIRM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10.ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11.WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

PMA IPDS/DDUGJY
Ashish
RECPDCL

1					
0	02/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel
Rev	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY

LOA. No.	6460/PVVNL-MT/IPDS/335/15-16/DT. 30.08.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1 OKAYA CENTRE, B-8, SECTOR-62, NOIDA-201301 (U.P.)
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 11Kv Line Formation on 11 mtr. STP Poles (Angular Loc. 0°-10°)
SCALE NTS	SHEET NO. 1 OF 2 — DRAWING No. TPL-PVVNL-11-11-GA-02

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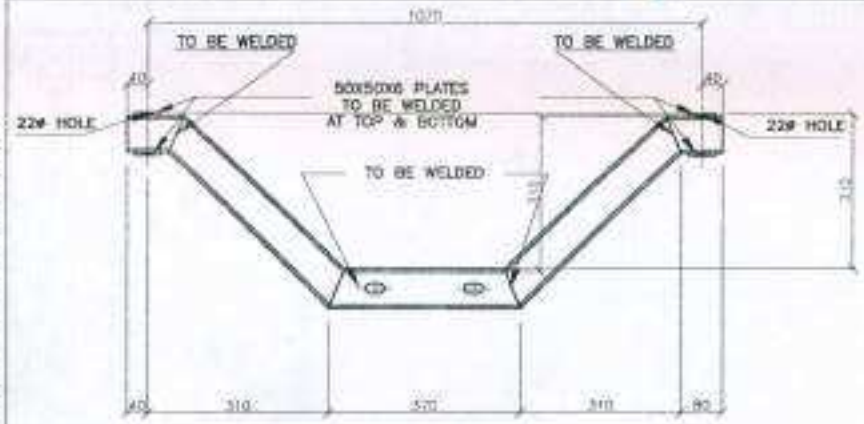
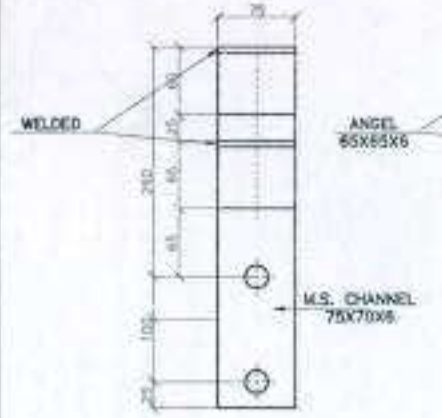


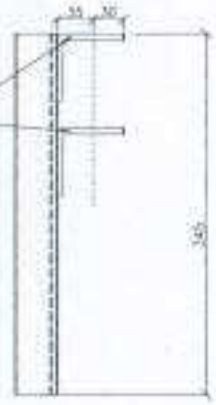
ELEVATION

PLAN

1T02. V-CROSS ARM



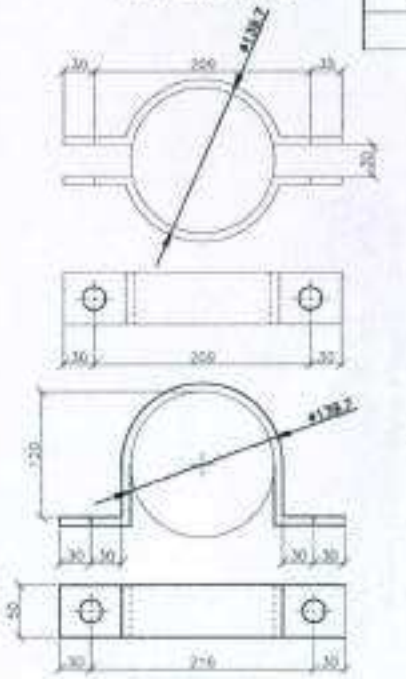
ELEVATION



END VIEW

1T01. F BRACKET

1T04. BACK CLAMP
STAY SET (50X8)



1T03. BACK CLAMP
V-X ARM (50X8)

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	F Bracket	75x40X6	345	5.70	1	1.967
		65x65X6	150	5.80	2	1.740
1T 02	V – Cross Arm	100x50X6	1407	5.70	1	11.115
		50x6	50	2.36	4	0.472
1T 03	Back Clamp for V X-arm	50X8	465	3.14	1	1.460
1T 04	Stay Set Clamp	50X8	318	3.14	2	1.997
TOTAL WEIGHT :						18.721
1	Bolts & Nuts	M16	65	0.164	2	0.328
2	Bolts & Nuts	M16	180	0.334	2	0.668
3	Bolts & Nuts	M16	75	0.180	2	0.360
4	Spring Washers	M16		0.009	6	0.054
5	Flat Washers	M16		0.014	6	0.070
TOTAL WEIGHT :						1.417

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT

"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection

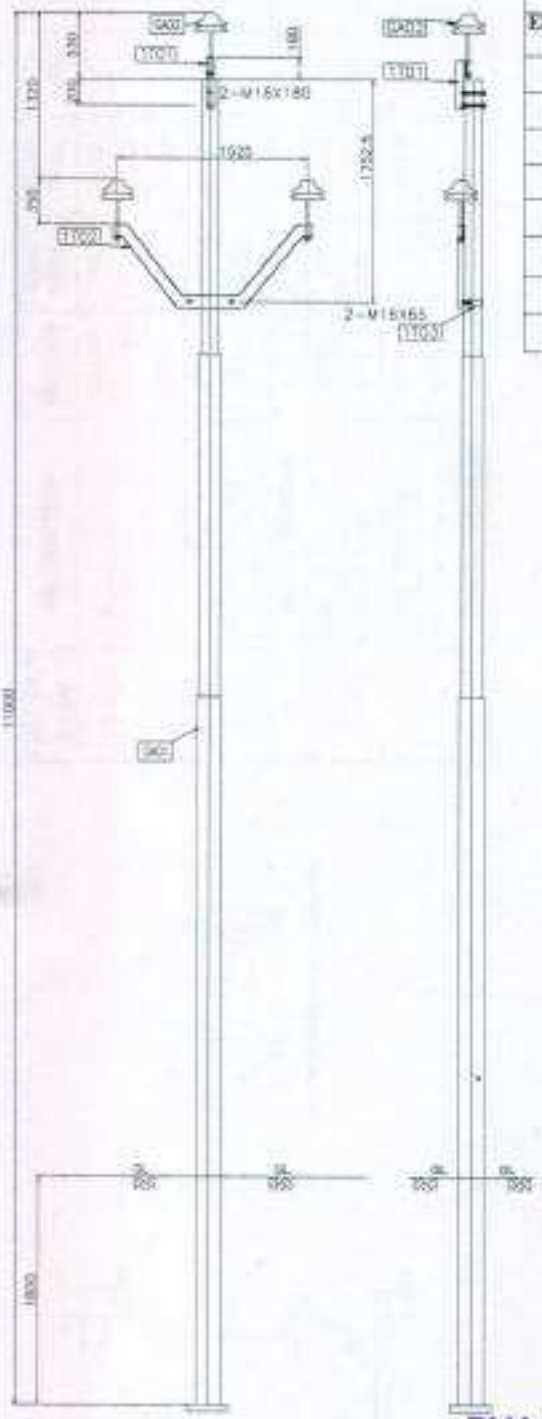
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL MATERIAL SHALL BE [illegible] UNLESS OTHERWISE SPECIFIED.
3. [illegible] AND 18MM WIDTH
4. [illegible] TOLERANCE IS [illegible] PER IS 1852.
5. [illegible] CONFORM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

LOA No.	6490/PVVNL-MT/IPDS/035/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,OKAYA CENTRE, B-5, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 11kv Line Formation on 11 mtr. STP Poles (Angular Loc. 0°-10°)
SCALE NTS	SHEET No. 2 OF 2	DRAWING No. TPL-PVVNL-11-11-GA-02

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	02/06/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. K. Pant

PMA/PDS/DDUGJY
RECPDCL

GTP Approved in IPDS/DDUGJY
Spec No. PVVNL-MT/IPDS/335/15-16



BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	33KV Pin insulators	3 Nos.	
1T 01	F Bracket	1 No.	TPL-PVVNL-33-11-GA-11
1T 02	V-Cross arm	1 No.	TPL-PVVNL-33-11-GA-11
1T 03	Back Clamp For V X-arm	1 No.	TPL-PVVNL-33-11-GA-11
	Spike Earthing	1 No.	
	Foundation	1 No.	

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
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PMA IPDS/DDUGJY
Advised
RECPDCL

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
5. ALL MS PARTS SHALL CONFIRM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

PLAN

LOA No.	0490/PVVNL/MT/IPDS/335/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,OKAYA CENTRE, B-5, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 33Kv Line Formation on 11 mtr. ST Poles with ACSR DOG for (In Line Locations)
SCALE NTS	SHEET NO. 2 OF 2 DRAWING No. TPL-PVVNL-33-11-GA-11

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	28/09/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. B. Patel

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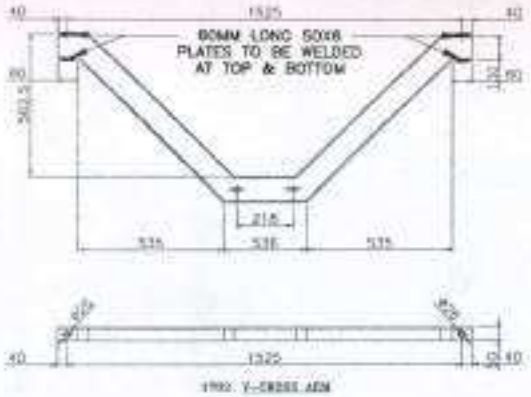
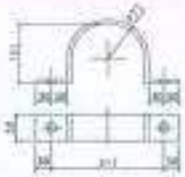
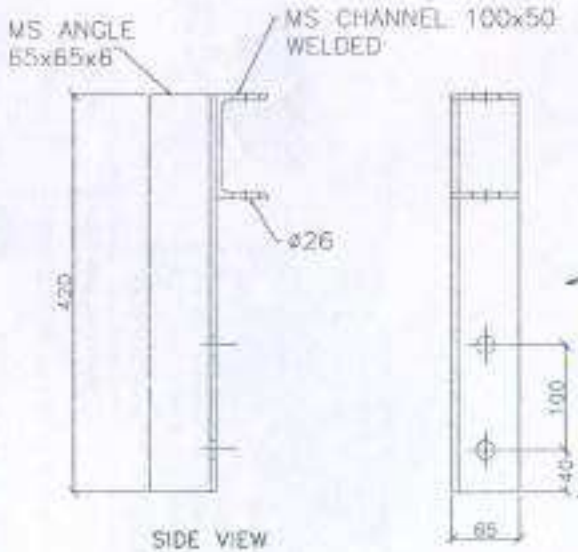




BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	F Bracket	100X50	65	7.90	1	2.44
		65x65X6	420	5.80	1	0.51
1T 02	V – Cross Arm	100X50	2143	7.90	1	16.93
		50X6	60	2.36	4	0.57
1T 03	Back Clamp for V X-arm	50X8	470	3.14	1	1.44
TOTAL WEIGHT :						21.89
1	Bolts & Nuts	M16	65	0.164	2	0.328
2	Bolts & Nuts	M16	180	0.334	2	0.668
3	Spring Washers	M16		0.009	4	0.036
4	Flat Washers	M16		0.014	4	0.056
TOTAL WEIGHT :						1.088

PMA IPDS/DDUGJY
Ashish
RECPDCL



1T01. TOP CLEAT

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

NOTE:-
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2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
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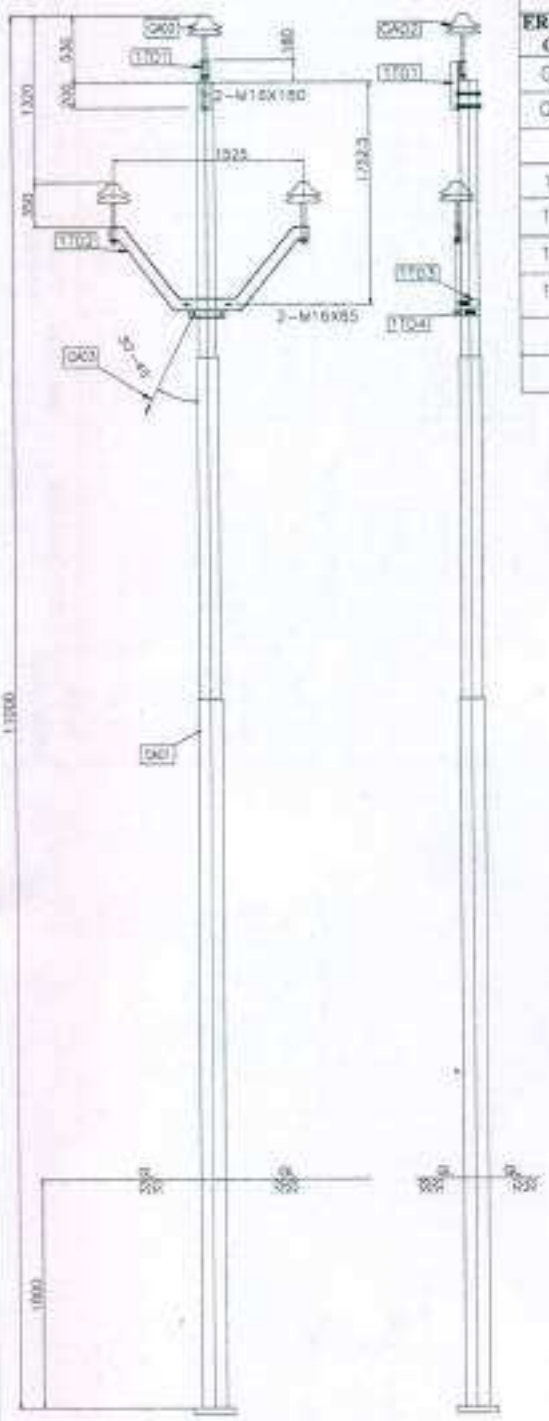
5. ALL MS PARTS SHALL CONFIRM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E350A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

LOA No.	6400/PVVNL-MT/IPDS/335/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-T,OKAYA CENTRE, B-9, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 33kv Line Formation on 11 mtr. ST Poles with ACSR DOG for (In Line Location)
SCALE NTS	SHEET NO. 2 OF 2	DRAWING No. TPL-PVVNL-33-11-GA-11

Rev	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY
1					
0	20/06/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. B. Patel

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16



BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	33KV Pin Insulators	3 Nos.	
1T 01	F Bracket	1 No.	TPL-PVVNL-33-11-GA-12
1T 02	V-Cross arm	1 No.	TPL-PVVNL-33-11-GA-12
1T 03	Back Clamp For V X-arm	1 No.	TPL-PVVNL-33-11-GA-12
1T 04	Stay Clamp	1 No.	TPL-PVVNL-33-11-GA-12
	Spike Earthing	1 No.	
	Foundation	1 No.	

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

PLAN

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
5. ALL MS PARTS SHALL CONFIRM TO IS 2062.
6. ALL MS FABRICATED ITMES SHALL BE HOT DIP GALVANISED AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS/ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410W).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

PMA IPDS/DDUGJY
RECPDCL

1					
0	29/09/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel
Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY

LOA No.	6490/PVVNL-MT/IPDS/335/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201307, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 33Kv Line Formation on 11 mtr. ST Poles with ACSR DOG for (Angular Loc. 0°-10°)
SCALE NTS	SHEET NO. 2 OF 2 — DRAWING No. TPL-PVVNL-33-11-GA-12

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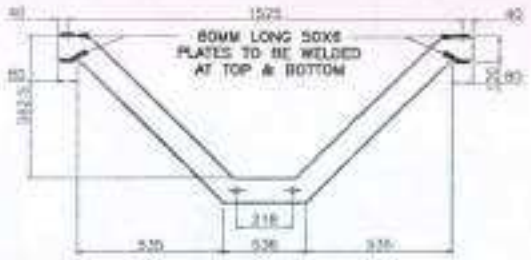
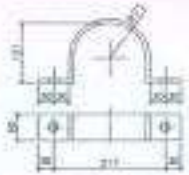
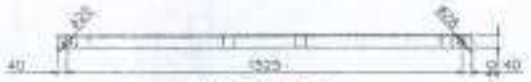


1T03. BACK CLAMPS FOR V-CROSS ARM

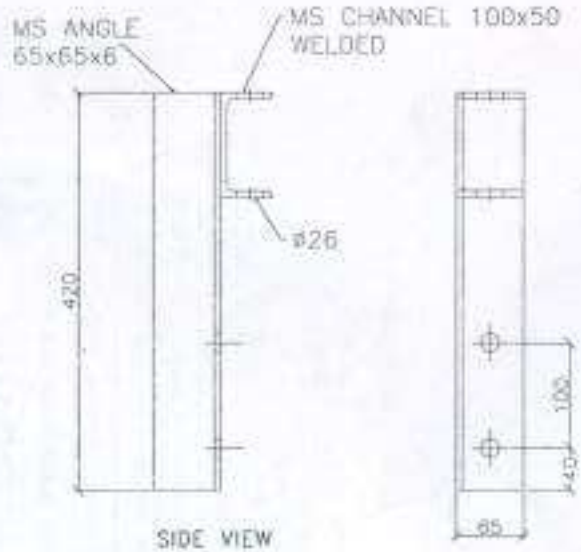


1T02. V-CROSS ARM

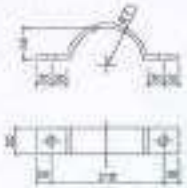


BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (MM)	Wt./Mtr (Kg.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	F Bracket	100X50	65	7.90	1	2.44
		65x65x6	420	5.80	1	0.51
1T 02	V - Cross Arm	100X50	2143	7.90	1	16.93
		50X6	60	2.36	4	0.57
1T 03	Back Clamp for V X-arm	50X8	470	3.14	1	1.44
1T 04	Stay Clamp	50X8	316	3.14	2	2.05
TOTAL WEIGHT :						23.94
1	Bolts & Nuts	M16	65	0.164	2	0.328
2	Bolts & Nuts	M16	180	0.334	2	0.668
3	Bolts & Nuts	M16	75	0.180	2	0.360
4	Spring Washers	M16		0.009	6	0.054
5	Flat Washers	M16		0.014	6	0.070
TOTAL WEIGHT :						1.417



1T01. TOP CLEAT



1T 04. Stay Clamp

PMA IPDS/DDUGJY
Ashish
RECPDCL

NOTE:-
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
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10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / CTP shall be ...

Rev	Date	Description
1		
0	29/09/2016	Release for Approval

LOA No.	6490/PVVNL-MT/IPDS/535/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,CAYA CENTRE, B.S. SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for 33Kv Line Formation on 13 mtr. ST Poles with ACSR DOG for (Angular Loc. 0°-10°)
SCALE N.T.S	SHEET NO. 2 OF 2 — DRAWING No. TPL-PVVNL-33-11-GA-12

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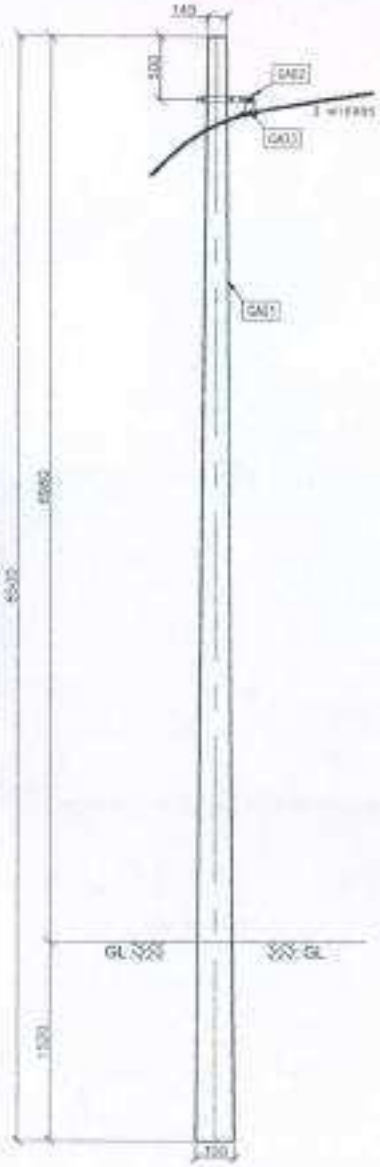
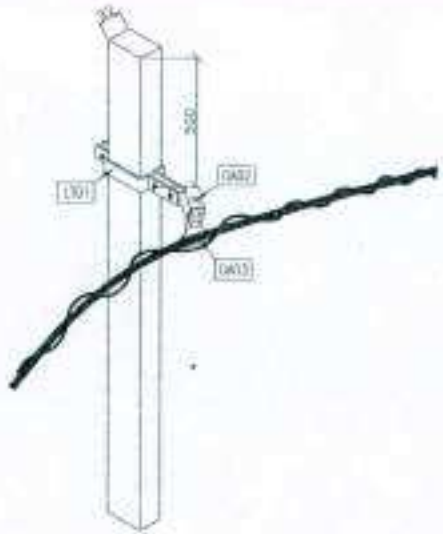
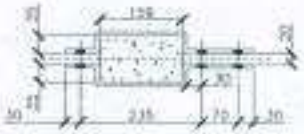
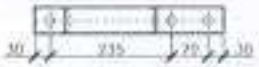






PLAN



ELEVATION

LT01 CLAMP FOR EYE HOOK TOP (50 X 8)

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	8.5m PCC Pole	1 No.	
GA 02	Forged Eye hook for LT AB Cable	1 No.	
GA 03	Suspension Clamp for LT AB Cable	1 No.	
	Foundation	1 No.	
	Spike Earthing	1 No.	

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
LT 01	Clamp for Eye Hook (TOP)	50X8	435	3.14	2	2.732
				TOTAL :		2.732
1	Bolts & Nuts		65	0.164	3	0.492
2	Spring Washers			0.009	3	0.027
3	Flat Washers			0.014	3	0.042
				TOTAL :		0.561

NOTE:-
1. All the Dimensions are in mm Unless otherwise specified.
2. All Holes are 18mm Dia Unless otherwise Specified;
3. All Slotted Holes are 36mm long and 18mm width.
4. Manufacturing Tolerance as per IS:1852
5. All M.S. Parts Shall Confirm to IS:2062
6. All M.S. Fabricated Items Shall be Hot Dip Galvanised As Per IS: 2629
7. All Washer Shall be Electro Galvanised
8. All M.S. Items Shall be Marked [illegible] Code
9. All M.S. Clamps, Angel & Channel Shall Confirm to IS:808
10. All M.S. Items Shall be of Grade E250A (Fe410W)
11. Weight Mention in BOM are Before Punching Holes.
12. Pole Earthing Shall Be Conn[illegible] Pipe Earthing

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / CTP shall be that of the contractor which is to be ensured during inspection."

PMA IPDS/DDUGJY
Ashish
RECPDCL

Revision	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
0	22/09/2016	RELEASE FOR APPROVAL	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	699/PVVNL [illegible]
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED(PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, ORAYA CENTRE, B-5, SECTOR-62, NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 8.5 mtr. PCC Poles With Alt Cable for (In Line Location)
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-10-8.5-GA-11

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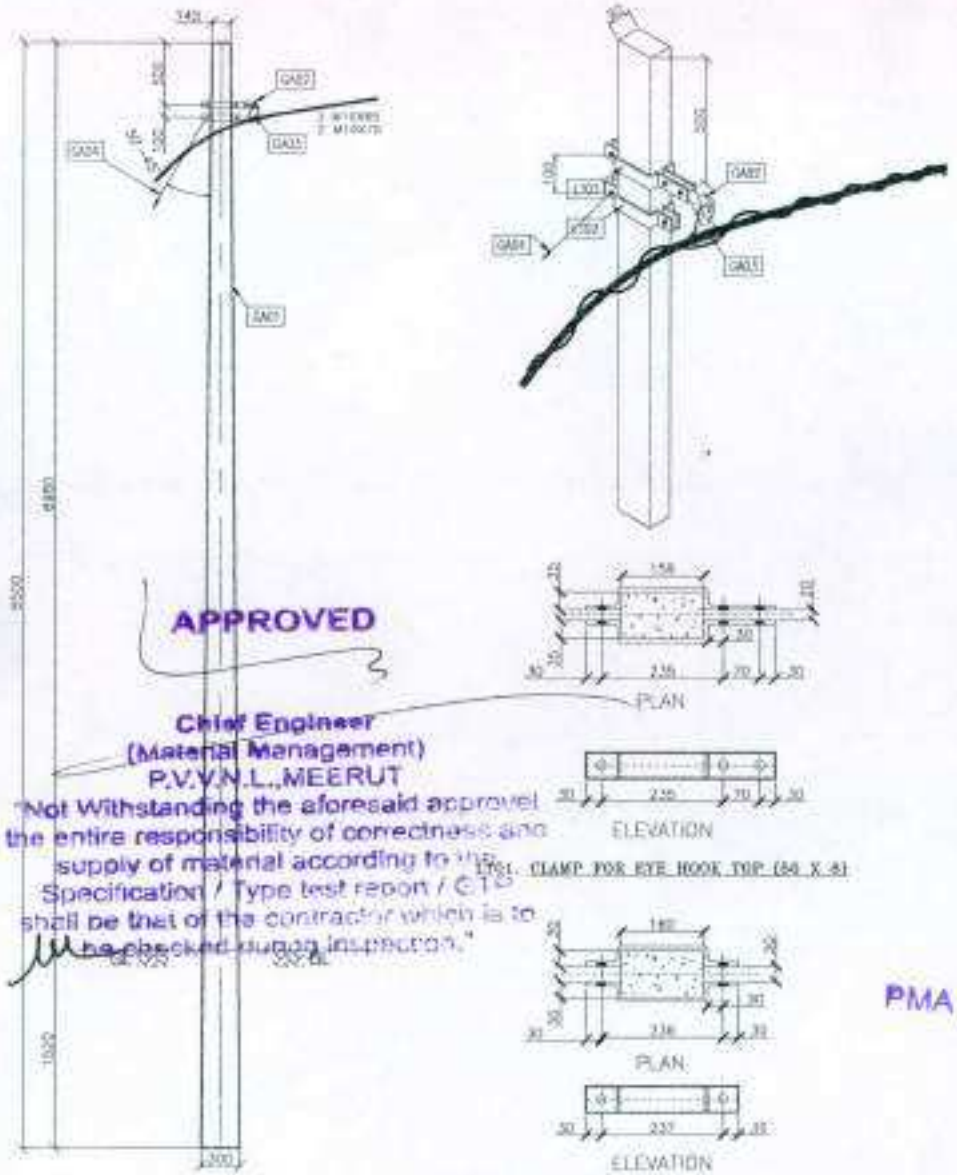

LT01. CLAMP FOR EYE HOOK TOP (50 X 8)

LT02. CLAMP FOR STAY SET -A (50 X 8)

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / CTS shall be that of the contractor which is to be checked during inspection."

PMA IPDS/DDUGJY
Ashish
RECPDCL

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	8.5m PCC Pole	1 No.	
GA 02	Forged Eye hook for LT AB Cable	1 No.	
GA 03	Suspension Clamp for LT AB Cable	1 No.	
GA 04	LT Stay Set Arrangment	1 No.	
	Foundation	1 No.	
	Spike Earthing	1 No.	

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
LT 01	Clamp for Eye Hook (TOP)	50X8	433	3.14	2	2.719
LT 02	Stay set Clamp A	50X8	357	3.14	2	2.242
				TOTAL :		4.961
1	Bolts & Nuts	M16	75	0.180	2	0.360
2	Bolts & Nuts	M16	65	0.164	3	0.492
3	Spring Washers	M16		0.009	5	0.045
4	Flat Washers	M16		0.014	5	0.070
				TOTAL :		0.967

NOTE:-
1. All the Dimensions are in mm Unless otherwise specified.
2. All Holes are 18mm Dia Unless otherwise Specified;
3. All Slotted Holes are 36mm long and 18mm width.
4. Manufacturing Tolerance as per IS:1852
5. All M.S. Parts Shall Confirm to IS:2062
6. All M.S. Fabricated Items Shall be Hot Dip Galvanised As Per IS: 2629
7. All Washer Shall be Electro Galvanised
8. All M.S. Items Shall be Marked With Erection Code
9. All M.S. Clamps, Angel & Channel Shall Confirm to IS:808
10. All M.S. Items Shall be of Grade E250A (Fe410W)
11. Weight Mention in BOM are Before Punching Holes.
12. Pole Earthing Shall Be Connected To Skipe Type Earthing

Revision	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY
0	22/09/2016	RELEASE FOR APPROVAL	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	6490/PVVNL-MT/IPDS/035/15-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1, GAYA CENTRE, B-5, SECTOR-62 NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 8.5 mtr. PCC Poles With AB Cable for (Angular Loc. 0°-30°)
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No.IPL-PVVNL-10-8.5-GA-12

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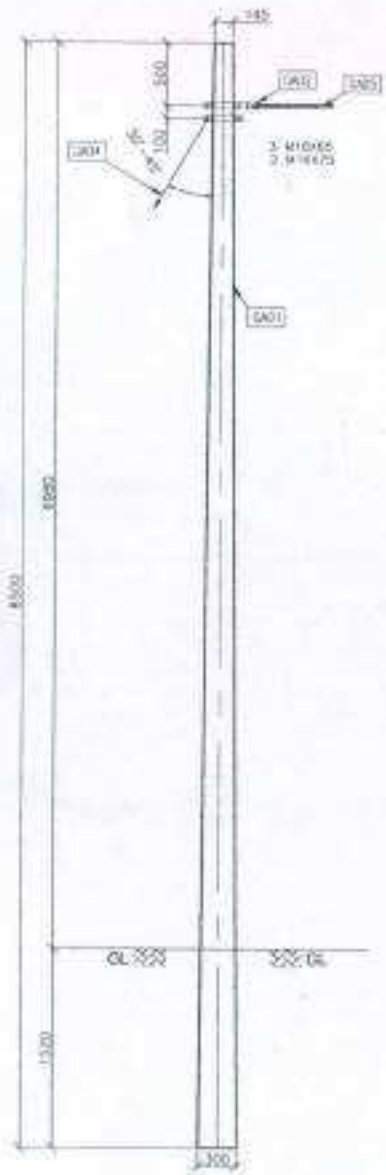
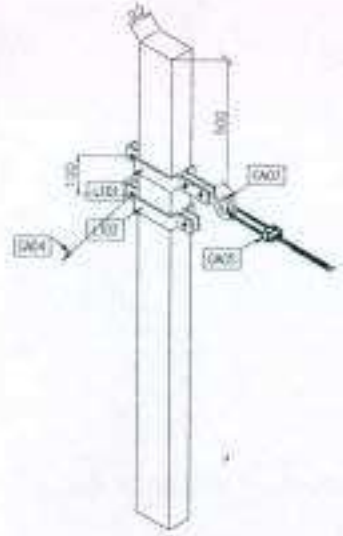
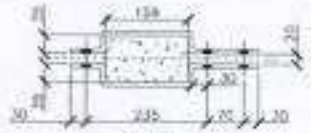
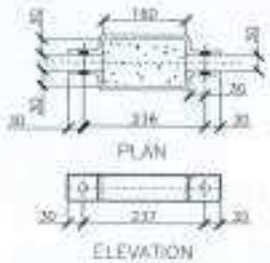






LT01. CLAMP FOR EYE HOOK TOP (50 X 8)



LT02. CLAMP FOR STAY SET -A (50 X 8)

BILL OF MATERIAL

ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	8.5m PCC Pole	1 No.	
GA 02	Forged Eye hook for LT AB Cable	1 No.	
GA 04	LT Stay Set Arrangment	1 No.	
GA 05	Dead Clamp Clamp LT AB Cable	1 No.	
	Foundation	1 No.	
	Spike Earthing	1 No.	

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
LT 01	Clamp for Eye Hook (TOP)	50X8	433	3.14	2	2.719
LT 02	Stay set Clamp A	50X8	357	3.14	2	2.242
				TOTAL :		4.961
1	Bolts & Nuts	M16	75	0.180	2	0.360
2	Bolts & Nuts	M16	65	0.164	3	0.492
3	Spring Washers	M16		0.009	5	0.045
4	Flat Washers	M16		0.014	5	0.070
				TOTAL :		0.967

NOTE:-
1. All the Dimensions are in mm Unless otherwise specified.
2. All Holes are 18mm Dia Unless otherwise Specified.
3. All Slotted Holes are 36mm long and 18mm width.
4. Manufacturing Tolerance as per IS:7852
5. All M.S. Parts Shall Confirm to IS:2062
6. All M.S. Fabricated Items Shall be Hot Dip Galvanised As Per IS: 2629
7. All Washer Shall be Electro Galvanised
8. All M.S. Items Shall be Marked With Erec
9. All M.S. Clamps, Angle & Channel S
10. All M.S. Items Shall be of Grade E
11. Weight Mention in BOM are Before Pu
12. Pole Earthing Shall Be

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L. MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / CTP shall be that of the contractor which is to be checked during inspection."

PMA IPDS/DDUGJY
Ashish
RECPD

Revision	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY
0	22/09/2016	RELEASE FOR APPROVAL	SANDEEP KR.	SANDEEP KR.	R. K. Paul

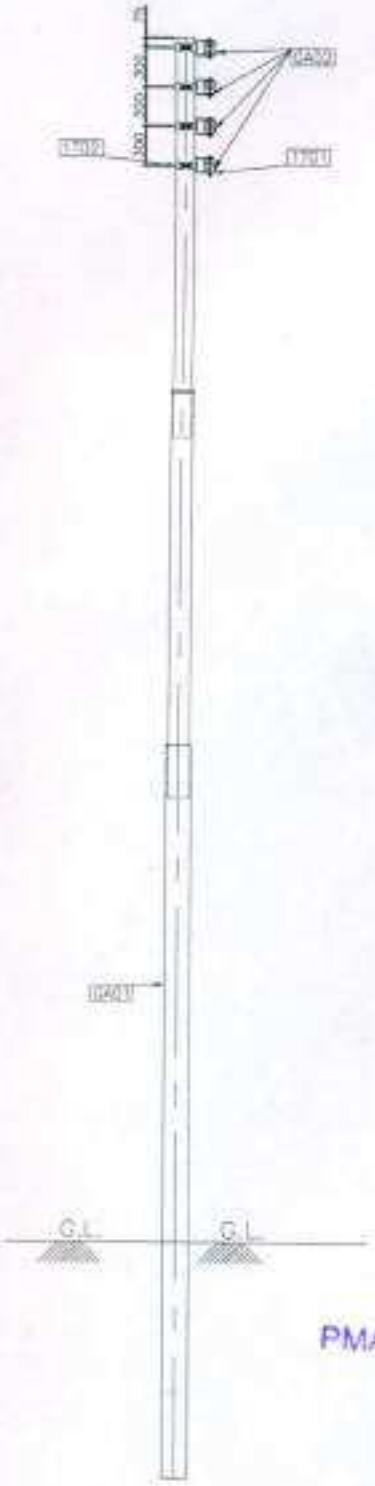
LOA No.	6490/PVVNL-N [illegible]
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-LOKAYA CENTRE, B-5, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 8.5 mtr. PCC Poles With AB Cable for (Dead End Location)
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No.TPL-PVVNL-16-8.5-GA-13

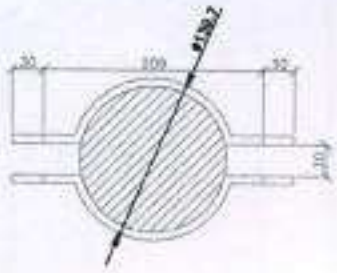
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

BILL OF MATERIAL

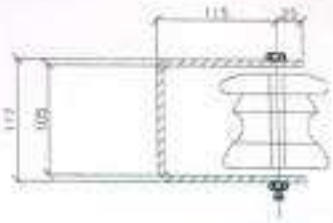
ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	LT Shackle insulators with GI pins	4 Nos.	
1T 01	U Clamp	4 Nos.	TPL-PVVNL-STP-10-11-GA-11
1T 02	Clamp for U Clamp	8 Nos.	TPL-PVVNL-STP-10-11-GA-11
	Earthing	1 No.	
	Foundation	1 No.	

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	U Clamp	30X6	385	1.41	4	2.17
1T 02	Clamp for U Clamp	50X6	318	2.36	8	6.00
	TOTAL WEIGHT :					8.17
1	Bolts & Nuts	M16	75	0.180	8	1.440
2	Spring Washers	M16		0.009	8	0.072
3	Flat Washers	M16		0.014	8	0.112
	TOTAL WEIGHT :					1.624





1T02. CLAMP FOR U CLAMP (50X6)



1T01-U CLAMP (30X6)

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L. MEERUT

"Not Withstanding the aforesaid approval the entire responsibility of correctness and quality of material according to the Estimated Technical / Type test report / GTP lies with the contractor which is to ... inspection."

NOTE:-
1. ALL DIMENSIONS ... MENTIONED.
2. ALL ...
3. ALL ... UNLESS ...
4. ...
5. ALL ...
6. ALL MS FABRICATED ITEMS ... AS PER IS 2629.
7. ALL WASHERS SHALL BE ELECTRO GALVANISED.
8. ALL MS ITEMS SHALL BE MARKED WITH ERECTION CODE.
9. ALL CLAMPS,ANGLE & CHANNELS SHALL CONFIRM TO IS 808.
10. ALL MS ITEMS SHALL BE OF GRADE E250A (Fe410w).
11. WEIGHTS MENTIONED IN BOM ARE BEFORE PUNCHING HOLES.

PMA IPDS/DDUGJY
RECPDCL

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	24/10/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	p400/PVVNL-MT/IPDS/335/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 11 mtr. ST Poles with ACSR DOG for (In Line Locations)
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-10-11-GA-11

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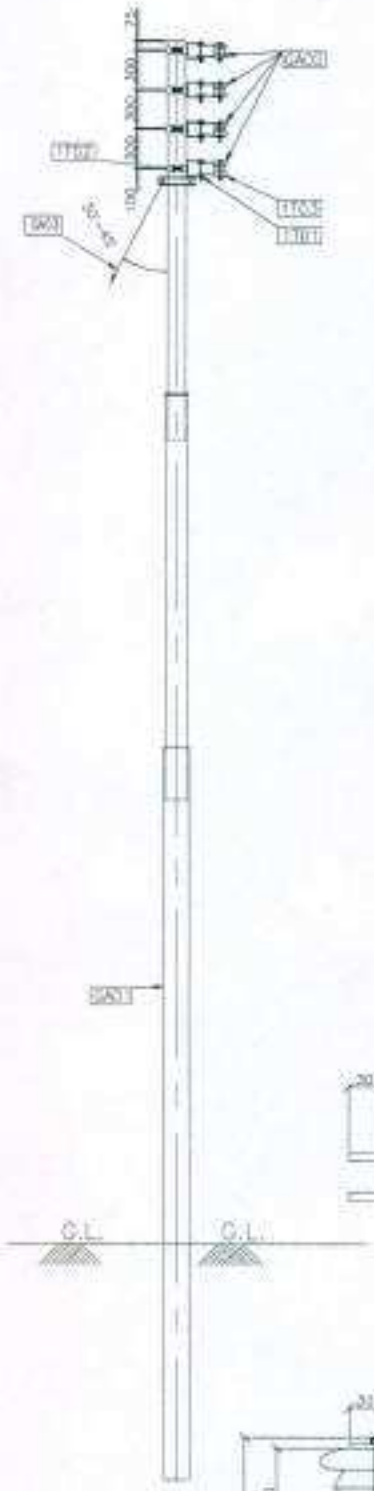
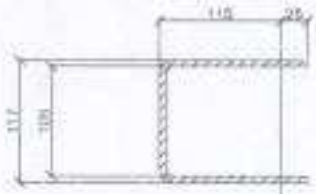
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

BILL OF MATERIAL

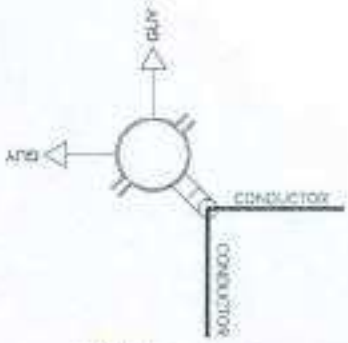
ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	LT Shackle insulators with GI pins	4 Nos.	
GA 03	Stay Set	2 sets.	
1T 01	U Clamp	4 Nos.	TPL-PVVNL-STP-10-11-GA-12
1T 02	Clamp for U Clmap	8 Nos.	TPL-PVVNL-STP-10-11-GA-12
1T 03	STRAP	8 Nos.	TPL-PVVNL-STP-10-11-GA-12
	Earthing	1 No.	
	Foundation	1 No.	

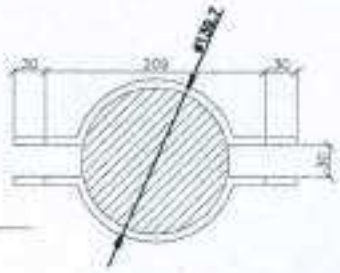
ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	U Clamp	30X6	385	1.41	4	2.17
1T 02	Clamp for U Clamp	50X6	318	2.36	8	6.00
1T 02	Strap	40X6	206	1.903	8	3.136
	TOTAL WEIGHT :					11.306
1	Bolts & Nuts	M16	75	0.180	8	1.440
2	Bolts & Nuts	M16	145	0.291	8	2.328
3	Spring Washers	M16		0.009	16	0.144
4	Flat Washers	M16		0.014	16	0.224
	TOTAL WEIGHT :					4.136



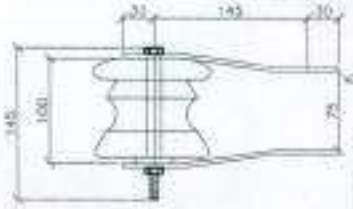


1T01.U CLAMP (30X6)





1T02. CLAMP FOR U CLAMP (50X6)



1T03. STRAP (40X6)

NOTE:- 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
[illegible] MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. MANUFACTURING TOLERANCE IS AS PER IS 1852.
5. ALL MS PARTS SHALL CONFORM TO IS 2062.
[illegible] PARTS SHALL BE HOT DIP GALVANISED.
[illegible] BE ELECTRO GALVANISED.
[illegible] MARKED WITH ERECTION CODE.
[illegible] CONFIRM TO IS 808.
[illegible] BEFORE PUNCHING HOLES.

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be c[illegible] construction."

DMA : PLAN DDUGJY
Ashish
RECPDCL

OWNER:-	PASCHIMANCHAL VIDYUT PARAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, OKAYA CENTRE, B-5, SECTOR-62, NOIDA-201301 U.P.
PROJECT	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 11 mtr. ST Poles with ACSR DOG for (Angular Loc. 0°-90°)
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No.TPL-PVVNL-STP-10-11-GA-12

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	24/10/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

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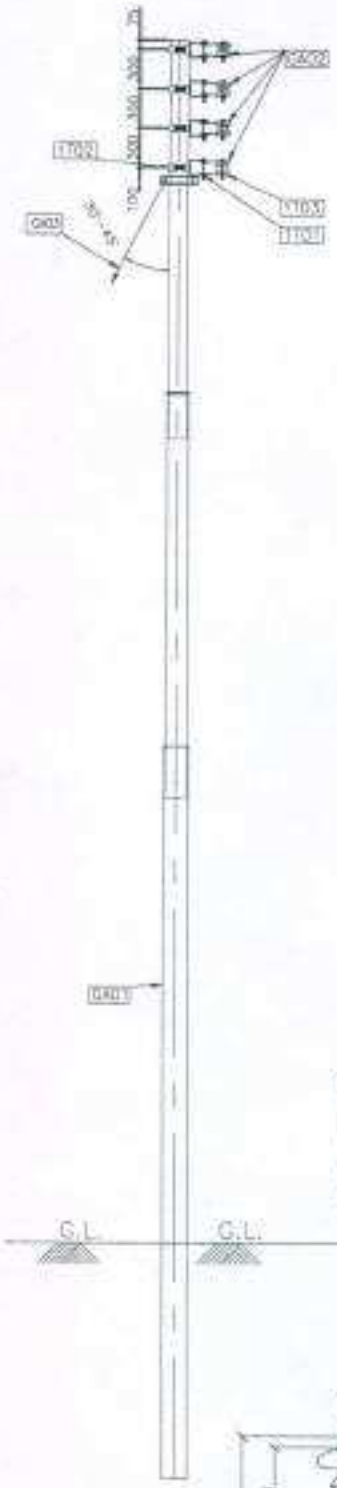
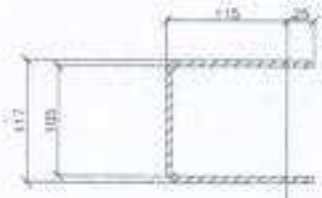
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

BILL OF MATERIAL

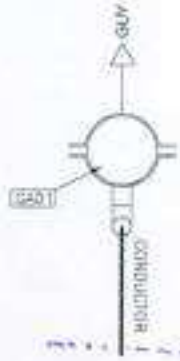
ERECTION CODE	DESCRIPTION	QTY.	REF DRAWING NO.
GA 01	11m/SP-55 (410 MPa) STP Pole	1 No.	
GA 02	LT Shackle Insulators with CI pins	4 Nos.	
GA 03	Stay Set	1 sets.	
1T 01	U Clamp	4 Nos.	TPL-PVVNL-STP-10-11-GA-13
1T 02	Clamp for U Clamp	8 Nos.	TPL-PVVNL-STP-10-11-GA-13
1T 03	STRAP	8 Nos.	TPL-PVVNL-STP-10-11-GA-13
	Earthing	1 No.	
	Foundation	1 No.	

ERECTION CODE	DESCRIPTION	SECTION	LENGTH (M.M.)	Wt./Mtr (K.g.)	Qty. (Nos.)	Total Wt. (Kgs)
1T 01	U Clamp	30X6	385	1.41	4	2.17
1T 02	Clamp for U Clamp	50X6	318	2.36	8	6.00
1T 02	Strap	40X6	205	1.903	8	3.136
	TOTAL WEIGHT :					11.306
1	Bolts & Nuts	M16	75	0.180	8	1.440
2	Bolts & Nuts	M16	145	0.291	8	2.328
3	Spring Washers	M16		0.009	16	0.144
4	Flat Washers	M16		0.014	16	0.224
	TOTAL WEIGHT :					4.136

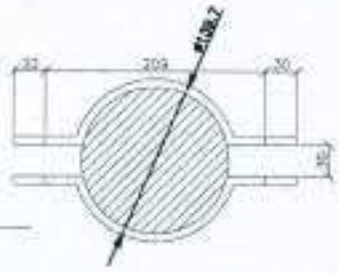




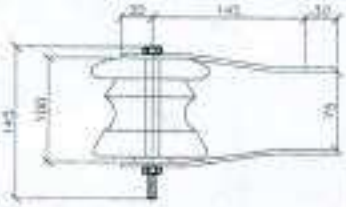
1T01.U CLAMP (30X6)



PLAN



1T02. CLAMP FOR U CLAMP (50X6)



1T03. STRAP (40X6)

DDUGJY
Ashish
SE CPDCL

APPROVED

NOTES:- 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. ALL HOLES ARE 18MM DIA UNLESS OTHERWISE SPECIFIED.
3. ALL SLOTTED HOLES ARE 36MM LONG AND 18MM WIDTH UNLESS OTHERWISE SPECIFIED.
4. [illegible] MATERIAL USED IN ERECTION IS AS PER IS 1852.
5. [illegible] CONFORM TO IS 2062.
6. [illegible] SHALL BE HOT DIP GALVANISED.
7. [illegible] MATERIAL BE ELECTRO GALVANISED.
8. [illegible] ERECTION CODE.
9. [illegible] SHALL CONFORM TO IS 808.
10. [illegible] E250A (Fe410W).
11. [illegible] BEFORE PUNCHING HOLES.
12. [illegible] CONNECTION.

Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT

"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to

LOA No.	04/PVVNL/MD/IPDS/XVIII/DT. 30.06.2015
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1, OKAYA CENTRE, B-8, SECTOR-62 NOIDA-201301 (U.P.)
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	G.A. Components for LT Line Formation on 11 mtr. ST Poles with ACSR DOG for (Dead End Location)
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No.TPL-PVVNL-STP-10-11-GA-13

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	24/02/2016	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. B. Patel

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हित में बिजली बचायें

ELECTRICITY IN THE
EREST OF THE NATION

दूरभाष / Ph.: 0121-2665734
फैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय :
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.,
Paschimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.: 20844/ PVVNL-MT/ IPDS/335/15-16 Dated: 13.01.2017

Subject:- Approval of GTP/Drawing of Material/Equipment for Work of Construction of 33 KV Line, 11 KV Line, LT Line, Installation of New 11/0.4 KV Transformers, Augmentation of 11/0.4 KV Transformers & other works at different places of Electricity Distribution Zone Saharanpur on partial-turnkey basis under Integrated Power Development Scheme (IPDS) Against Tender specification no. PVVNL-MT/IPDS/335/15-16.

M/s Tata Projects Limited,
Ground Floor Tower-B Green Boulevard,
Plot No. B-9/A, Sector-62,
Noida-201307 UP.

Email ID - abhikpal@tataporojects.com

Dear Sir,

Please refer to your letter No. TPL/NOIDA/PVVNL/IPDS/62 dated 30.12.2016 regarding approval of the GTP & Drawing of the material & make as detailed below:-

Sl. No.	Material/equipment	Approved Vendor
1.	**GA Drawings**	M/s Tata Pojects Ltd, Noida

This approval is subject to the following conditions:-

1. *The said approval is with the condition the material supplied by the above firms may be sent by Managing Director, PVVNL, Meerut for testing by independent lab on firm's cost.*
2. *M/s* Tata Pojects Ltd, Noida *is not blacklisted/Debarred by any Discom/Govt. Organization.*

Correction wherever required in GTP & Drawing submitted by the contractor has been done by red ink However, these GTP & Drawing shall be subjected to the valid type test report and correctness as per technical specification of the SBD for IPDS/DDUGJY and tender document and the entire responsibility of the correctness of the GTP & Drawing as per the specification as well as supply of material according to the technical specification of the contract agreement and these GTP & Drawing shall be that of the contractor.

In case of any contradiction between GTP & Drawing & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to replace the material to the entire satisfaction of purchaser in case the material is not found suitable for use in the projects.

One copy of approved GTP and Drawings are enclosed herewith. This GTP and Drawing shall be treated as approved for all tenders under DDUGJY and IPDS scheme.

Encl.: As above

Your's faithfully

(Anil Kumar)
Superintending Engineer (MM-2)

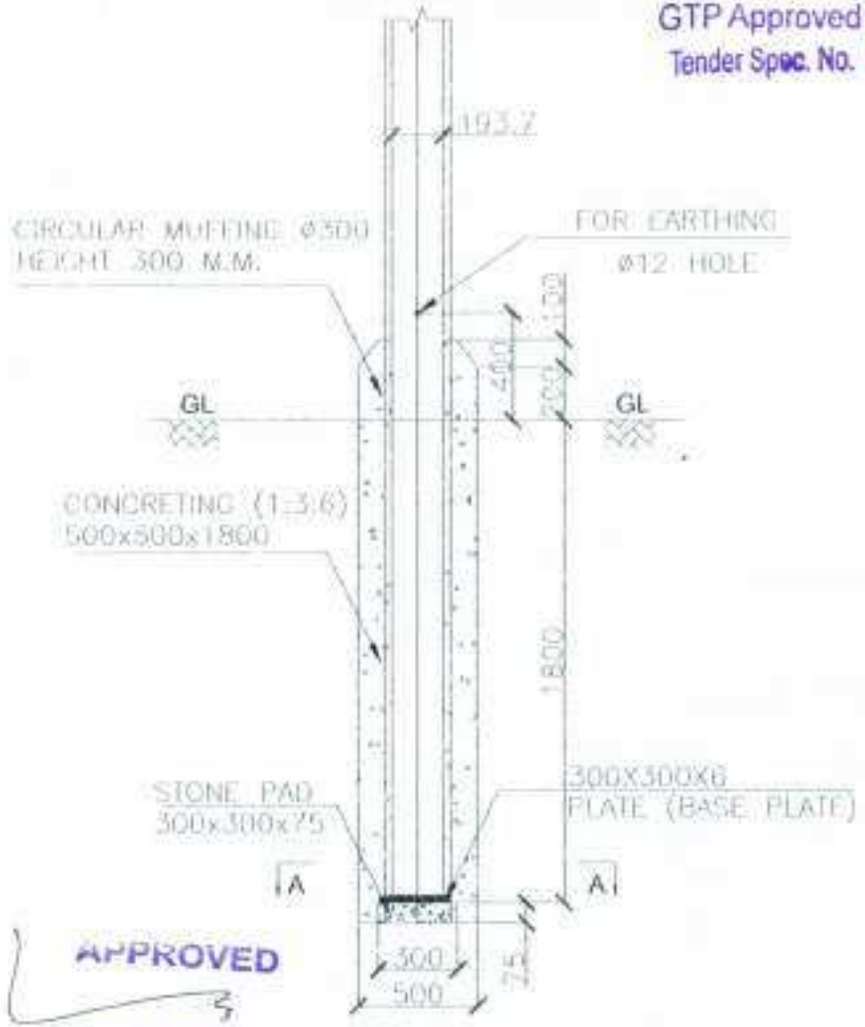
No.:20844/ PVVNL-MT/ IPDS/335/15-16 Dated: 13.01.2017

Copy forwarded to following for information and necessary action:

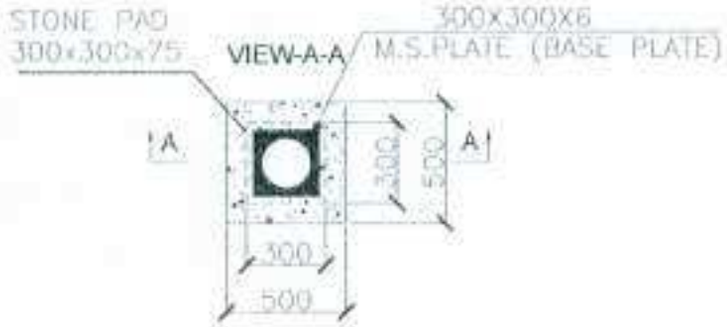
1. Chief Engineer, Saharanpur Zone, Saharanpur.
2. SE (Equator), PVVNL, Meerut.
3. SE (EDC/EUDC), Saharanpur/Muzaffarnagar/Shamli.
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

(Anil Kumar)
Superintending Engineer (MM-2)

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16



S.NO.	DESCRIPTION	Vol. in ^{3}M
1	Excavation	0.471
2	Concreting (1:3:6)	~~0.425~~ 0.44



APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT

"Not Withstanding the approval ... the entire responsibility ... and ... supply ... according to the type test report / GTP ... contractor which is to ... during inspection."

NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified.
2. Pole Drawing As Per IS 2713 - 1980(Part II), SP-55(410Mpa)

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1	29/12/2016	FOUNDATION 300X300X1800	ADITYA BHATT	SANDEEP KR.	R. R. Patel
0	03/08/2015	Release for Approval	SANDEEP KR.	SANDEEP KR.	R. R. Patel

LOA No.	6-990/PVVNL/MT/IPDS/335/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR TOWER-1, OKAYA CENTRE, B-5, SECTOR-62 NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL FOR 11M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No. TPL-PVVNL-STP-11-FDN-01

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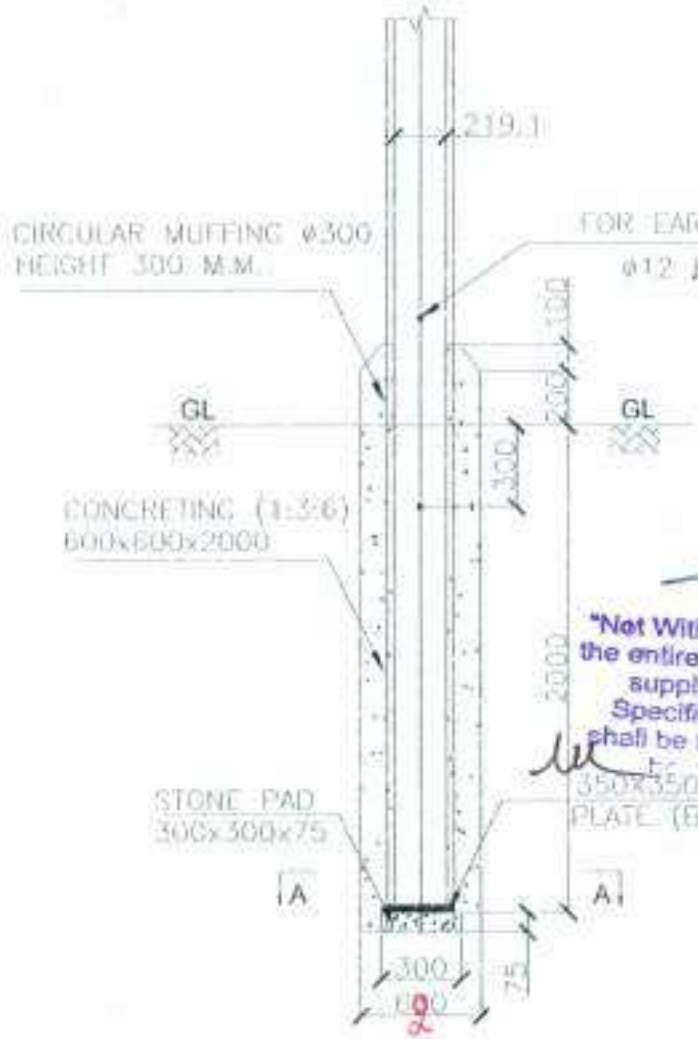
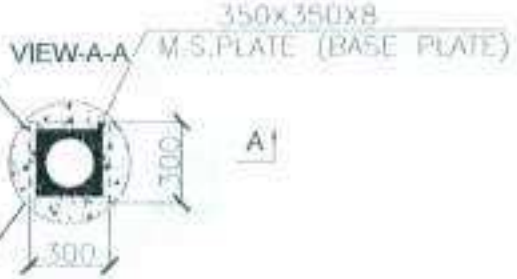
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/235/15-16



S.NO.	DESCRIPTION	Vol. in M^3
1	Excavation	~~0.5889~~
2	Concreting (1:3:6)	~~0.510~~ 0.64

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to [illegible] inspection."



NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified.
2. Pole Drawing As Per IS 2713 - 1980(Part II), SP-72(540Mpa)

1						
0	29/12/2016	Release for Approval	AJEETYA BHATT	SANDEEP KR.	R. B. Patel	
Rev	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY	

LOA No.	6490/PVVNL-MT/IPDS/235/13-16 DT. 20.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR,TOWER-1,ORAYA CENTRE, B-4, SECTOR-62,NOIDA-201301,U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL FOR 13 M STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-13-FDN-01-A

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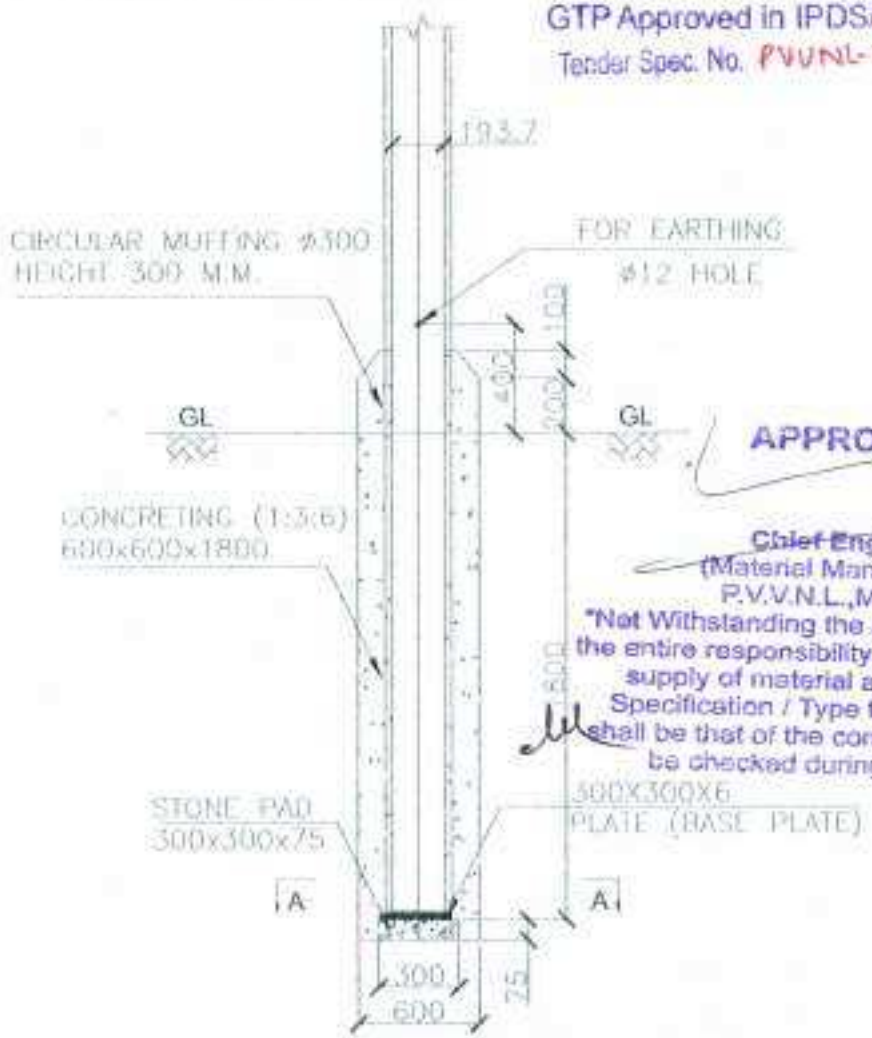
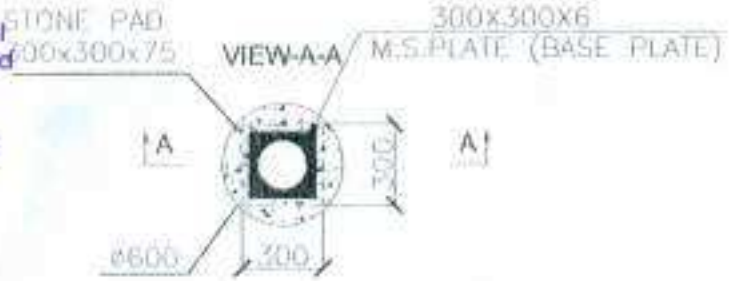
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16



S.NO.	DESCRIPTION	Vol. in M^3
1	Excavation	0.532
2	Concreting (1:3:6)	0.485

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."



NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified.
2. Pole Drawing As Per IS 2713 - 1980(Part II), SP-55(410Mpa)

PMA IPDS/DDUGJY
RECPDCL

TATA PROJECTS LIMITED

Rev	Date	Description	DRAWN BY.	CHECKED BY.	APPROVED BY
1					
0	29/12/2016	Release for Approval	ADITYA BHATT	SANDEEP KR.	R. R. Paul

LOA No.	5400/PVVNL-MD/IPDS/33/V15-16 DT. 29.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 7th FLOOR, TOWER-1, JAYA CENTRE, B-6, SECTOR-62, NOIDA-201301, U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL FOR LIM STEEL TUBULAR POLE
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-11-FDN-01-A

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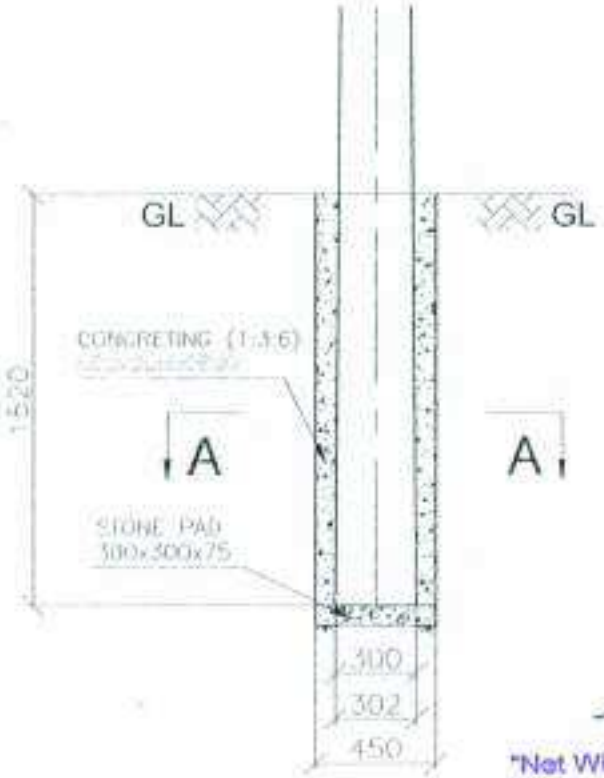
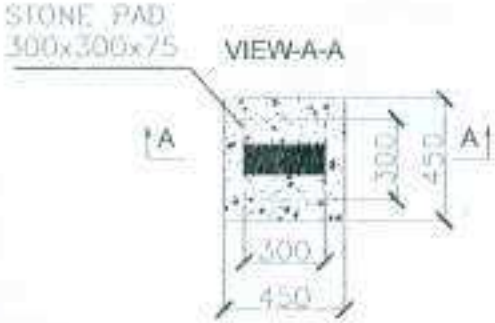
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

S.NO.	DESCRIPTION	Vol. in M^3
1	Excavation	0.323
2	Concreting (1:3:6)	0.276





APPROVED

"Net Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified.

PMA IPDS/DDUGJY
Ashish
RECPDCL

TATA PROJECTS LIMITED

Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY
1					
0	29/12/2016	Release for Approval	ADITYA BHATT	SANDEEP KR.	R. K. Pant

LOA No.	6/PMA/PVVNL-MC/IPDS/335/15-16 DT. 10.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED, 1st FLOOR TOWER-1 ONAYA CENTRE, D-5, SECTOR-62 NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 3HEV K.T.LINE FOUNDATION DETAIL 8.5 M PCC POLE
SCALE NTS	SHEET NO. 1 OF 1	DRAWING No. TPL-PVVNL-STP-8.5-FDN-01

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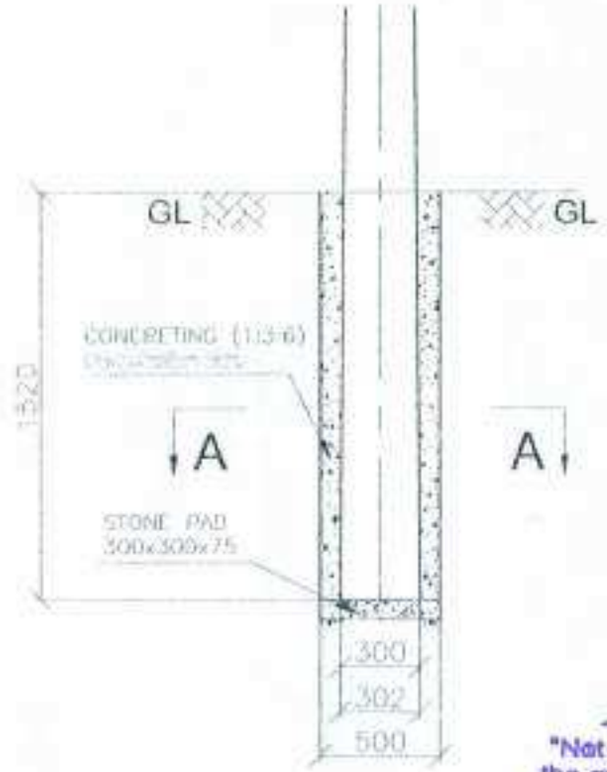
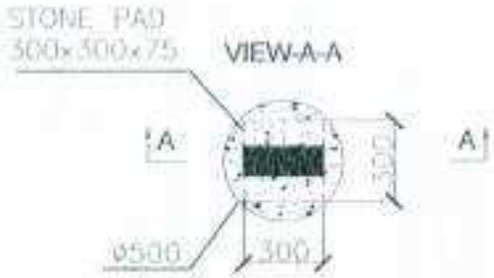
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/IPDS/335/15-16

S.NO.	DESCRIPTION	Vol. in ^{3}M
1	Excavation	0.313
2	Concreting (1:3:6)	~~0.268~~ 0.268





APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / type test report / GTP is on the bidder"

NOTE:-
1. All Dimensions are in mm. Unless otherwise Specified.

PMA IPDS/DDUGJY
Ashish
RECPDCL

TATA PROJECTS LIMITED

1					
0	29/12/2016	Release for Approval	ADITYA BHATT	SANDEEP KR.	K. R. Paul
Rev	Date	Description	DRAWN BY	CHECKED BY	APPROVED BY

LOA No.	0-950/PVVNL-MT/IPDS/335/15-16 DT. 30.06.2016
OWNER:-	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED 1st FLOOR, TOWER-1, DRAFA CENTRE, B-8, SECTOR-62, NOIDA-201301 U.P.
PROJECT.	IPDS - Saharanpur Project
DESCRIPTION	33KV, 11KV & LT LINE FOUNDATION DETAIL 8.5 M PCC POLE
SCALE NTS	SHEET NO. 1 OF 1 — DRAWING No. TPL-PVVNL-STP-8.5-FDN-02

(THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF TATA PROJECTS LTD. IT SHALL NOT BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE PRIOR WRITTEN PERMISSION OF THE COMPANY.)

राष्ट्र हित में बिजली बचायें
...F ELECTRICITY IN THE INTEREST OF
...E NATION

दूरभाष / Ph.: 0121-2665734
फैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय :
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.
Paschimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.:20127 /PVVNL-MT/DDUGJY/351/15-16 Dated: 30.12.2016

Subject:- Approval of GTP/Drawing of Material/Equipment for Work of Rural Electrification works including 11 KV Feeder segregation, Sansad Adarsh Gram Yojana and other works on partial turnkey basis in District Meerut under DDUGJY Scheme of Government of India against tender No. PVVNL-MT/ DDUGJY/351/15-16.

M/s Larsen & Toubro Ltd.,
Power Transmission &, Distribution
PO Box 979, Mount Poonamallee Road,
Manapakkam, Chennai-600089

Email: krj@lntecc.com, akr@lntecc.com
hojha@lntecc.com

Dear Sir,

Please refer to your letter No. LTCD/PT&D/DDUGJY/Meerut/G/1017 dated 19.12.2016 regarding approval of the GTP & Drawing of the material & make as detailed below:-

Sl. No.	Material/equipment	Approved Vendor
1.	GA Drawings	M/s Larsen & Toubro, Chennai

This approval is subject to the following conditions:-

1. *The said approval is with the condition the material supplied by the above firms may be sent by Managing Director, PVVNL, Meerut for testing by independent lab on firm's cost.*
2. *M/s* Larsen & Toubro, Chennai *is not blacklisted/Debarred by any Discom/Govt. Organization.*

Correction wherever required in Drawings submitted by the contractor has been done by red ink, However, these Drawings shall be subjected to the correctness as per technical specification of the SBD of IPDS & DDUGJY / tender document and the entire responsibility of the correctness of the Drawings as per the specification as well as supply of material according to the technical specification of the contract agreement and these Drawing shall be that of the contractor.

In case of any contradiction between Drawings & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to replace the material to the entire satisfaction of purchaser in case the drawing/material is not found suitable for use in the projects.

One copy of approved GTP and Drawings are enclosed herewith. This GTP and Drawing shall be treated as approved for all tenders under DDUGJY scheme only.

Encl.: As above

Your's faithfully

(Anil Kumar)
Superintending Engineer (MM-2)

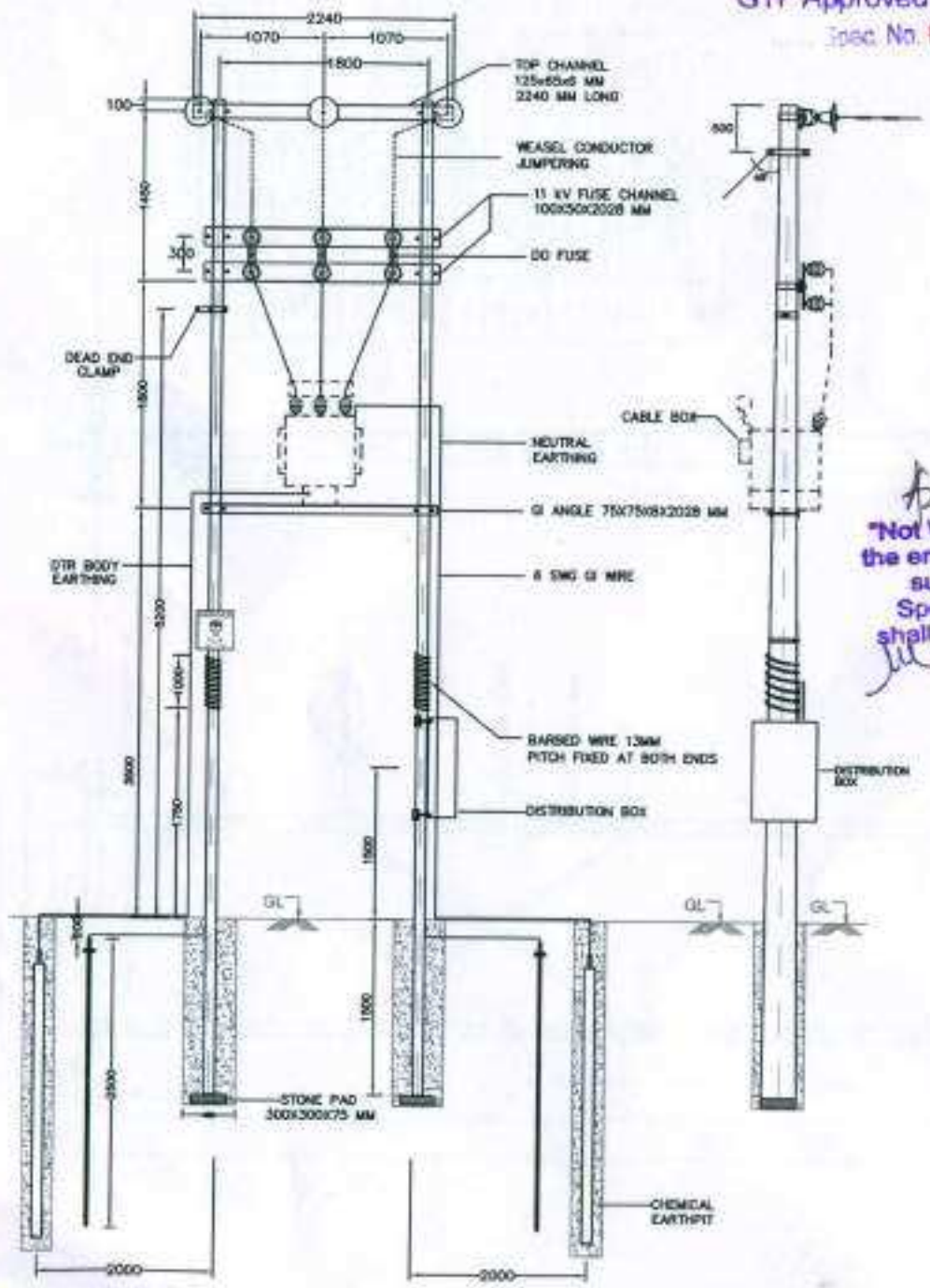
No.: 20127 /PVVNL-MT/DDUGJY/351/15-16 Dated: 30.12.2016

Copy forwarded to following for information and necessary action:

1. Chief Engineer, Meerut zone, Meerut.
2. SE (Equator), PVVNL, Meerut.
3. SE, EUDC/EDC, Meerut, Baghpat
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

(Anil Kumar)
Superintending Engineer (MM-2)

GTP Approved in IPDS/DDUGJY
Spec. No. PVVNL-MT/DDUGJY/351/15-16



APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT

"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

BILL OF MATERIAL

SL NO.	DESCRIPTION	UOM	QTY
01.	PCC SUPORT 8.5M POLE	Nos	02
02.	TOP CHANNEL 125X65X6	Nos	01
03.	DO FUSE MOUNTING CHANNEL 100X50X2	Nos	02
04.	ANGLE 75X75X6 FOR T/F MOUNTING	Nos	02
05.	DISTRIBUTION T/F	Nos	01
06.	DO FUSE UNIT 3PHASE	SET	01
07.	DISTRIBUTION BOX	Nos	01
08.	EARTHING PIT (TREATED)	SET	02
09.	EARTHING PIT (UNTREATED)	SET	02
10.	BACK CLAMP FOR DO FUSE CHANNEL	Nos	04
11.	DANGER BOARD	Nos	01
12.	BARBED WIRE		4 kg
13.	STONE PAD	Nos	02
14.	BACK CLAMP FOR TOP CHANNEL	Nos	02
15.	STAY SET	Nos	04
16.	11kV DISC INSULATOR WITH FITTING	SET	03
17.	DB MOUNTING CHANNEL	Nos	02
18.	BACK CLAMP FOR DISTRIBUTION BOX	Nos	02
19.	BACK CLAMP FOR DANGER BOARD	Nos	01
20.	LT PVC cable		20 m.
21.	ACSR WEASEL CONDUCTOR		25 m.

PMA IPDS/DDUGJY
RECPDCL

CONTRACTOR: L & T Construction POWER TRANSMISSION & DISTRIBUTION

CLIENT: RAJASTHAN RAJYA VIDYUT VITRAN NIGAM LIMITED

PROJECT: RURAL ELECTRIFICATION WORK ATMEERUT DISTRICT IN PVVNL OF U. P. STATE UNDER DDUGJY SCHEME

BY	NAME	SIGN
DRWN	VKS	
CHKD	NSH	
RVV	LNM	
APPD	LNM	

TITLE: 11kV, 25 / 63 / 100 KVA DT MOUNTING ARRANGEMENT ON 8.5 M DP STRUCTURE

SIZE	SCALE	REV NO	DRAWING NUMBER
A4	1:100	1	LNT /PVVNL/ DDUGJY/ MEERU/T/GA-01

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/351/15-16

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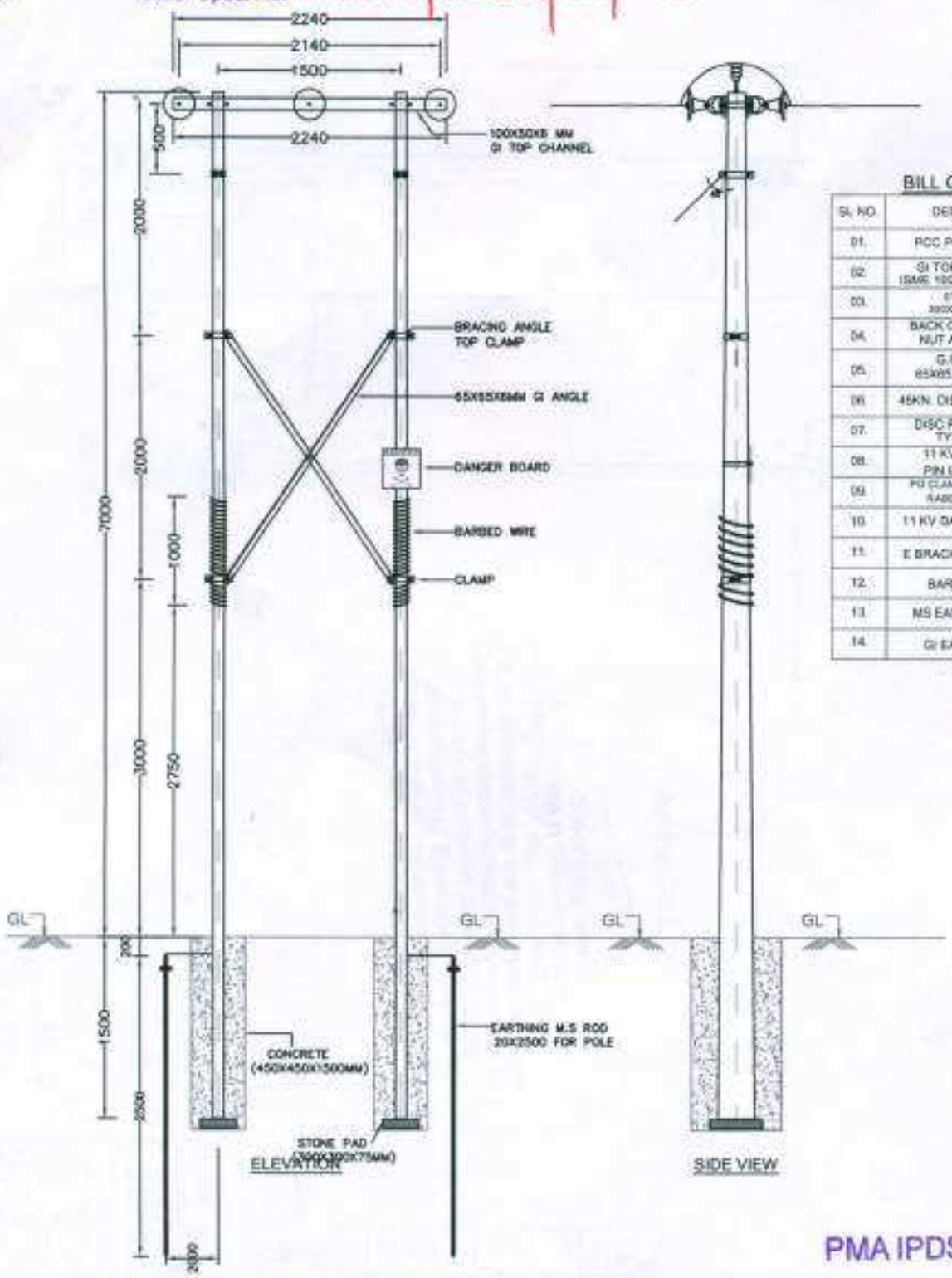


BILL OF MATERIAL

Sl. NO.	DESCRIPTION	UOM	QTY
01.	PCC POLE 8.5 Mr	Nos	02
02.	GI TOP CHANNEL ISMC 100X50X2240 mm	Nos	01
03.	STONE PAD 300X300X75 mm	Nos	02
04.	BACK CLAMP WITH NUT AND BOLTS	Nos	02
05.	G.I. ANGLE 65X65X6X2700mm	Nos	02
06.	45KN. DISC INSULATER	Nos	06
07.	DISC FITTING T&C TYPE 45KN	Nos	06
08.	11 KV POLIMER PIN INSULATOR	Nos	03
09.	PG CLAMPS FOR ACSR RABBIT/WEASEL	Nos	06
10.	11 KV DANGER BOARD	Nos	01
11.	E BRACKET FOR 11 KV	Nos	03
12.	BARBED WIRE	Kg.	04
13.	MS EARTHING ROD	Nos	02
14.	GI EARTH WIRE	Nos	02

PMA IPDS/DDUGJY
Ashish
RECPDCL

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

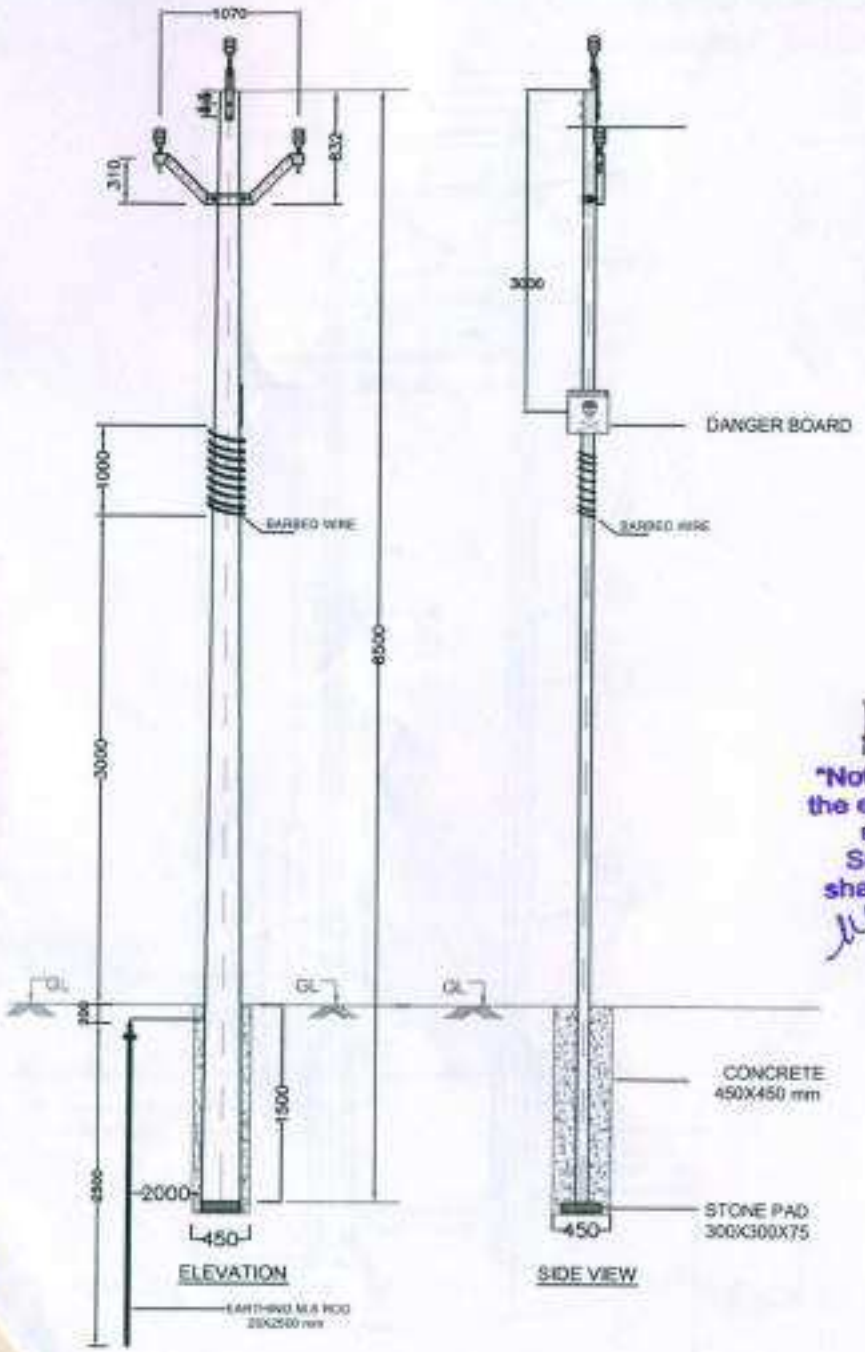
NOTES:
1. ALL DIMENSIONS ARE IN MM

CONTRACTOR	L & T Construction (POWER TRANSMISSION & DISTRIBUTION)
CLIENT	PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED
PROJECT	RURAL ELECTRIFICATION WORK AT MEERUT DISTRICT IN PVVNL OF U.P. STATE UNDER DDUGJY SCHEME

BY	NAME	SIGN.	Title
DRWN	VKS		11kV SECTION DP ARRANGEMENT WITH 8.5M PCC POLE
CHKD	NSH		
RSV	LNM		
APPD	LNM		

SIZE	SCALE	REV. NO.	DRAWING NUMBER
A4	1:100	2	LNT-PVVNL/ DDUGJY/ MEERUT/G4-02

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/351/15-16



APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

BILL OF MATERIAL

SL NO.	DESCRIPTION	UOM	QTY PER POLE
01	V CROSS ARM	Nos	01
02	BACK CLAMP FOR V CROSS ARM	Nos	01
03	F- BRACKET	Nos	01
04	POLYMER TYPE PIN INSULATOR	Nos	03
05	BARBED WIRE	Kg	02
06	DANGER BOARD	Nos	01
07	25X2500 mm EARTH ELECTRODE	Nos	01
08	PCC POLE	Nos	01
09	STONE PAD	Nos	01

NOTES:
1.ALL DIMENSIONS ARE IN MM

PMA IPDS/DDUGJY
RECPDCL

CONTRACTOR: L & T Construction POWER TRANSMISSION & DISTRIBUTION			
CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED			
PROJECT: RURAL ELECTRIFICATION WORK AT MEERUT DIVISION PVVNL OF G.P. BASE UNDER DDUGJY SCHEME			
BY	NAME	SIGN	TITLE: GENERAL ARRANGEMENT OF 11kV LINE WITH V CROSS ARM ON 8.5M PCC POLE
DRWN	VKS		
CHKD	NSH		
REV	LNM		
APPD	LNM		
SIZE A4	SCALE 1:100	REV NO 0	DRAWING NUMBER: LNT/PVVNL/ DDUGJY/ MEERUT/GA/03

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/251/12-16

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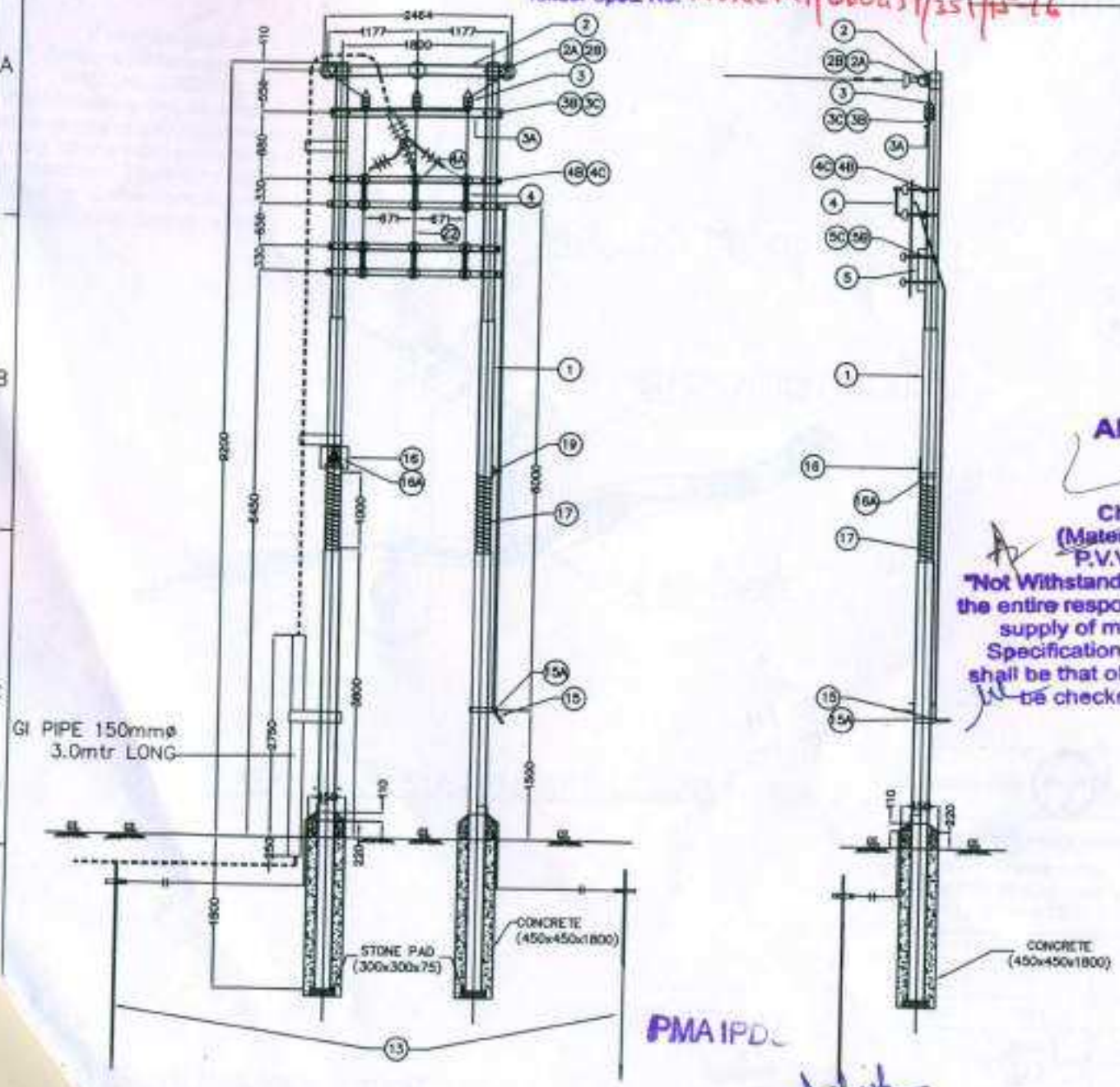

S.NO.	DESCRIPTION	QTY.
1	STP POLE 11MTR	2 NOS.
2	TOP CHANNEL 125x65x2240 mm	1 NO.
2.A	TOP CHANNEL BACK CLAMPS ITEM 2 (50X8 THK. FLAT)	2 NOS.
2.B	G.I. BOLTS, NUTS & WASHERS FOR ITEM 2A (#16X85 LONG BOLTS NUT AND WASHER)	4 SET
3	LIGHTENING ARRESTOR 9 KV	3 NOS.
3.A	MOUNTING CHANNEL FOR LA (100X50X2140 CHANNEL)	1 NO.
3.B	CLAMPS FOR ITEM 3.A (50X8 THK. FLAT)	2 NOS.
3.C	G.I. BOLTS, NUTS & WASHERS FOR ITEM 3B (#16X85 LONG BOLTS NUT AND WASHER)	4 SET
4	T.P.M.O.	1 NO.
4.A	SUPPORT/BASE CHANNEL FOR T.P.M.O. (100 X 50 X 2140 CHANNEL)	2 NOS.
4.B	CLAMPS FOR ITEM 4.A (50X8 THK. FLAT)	4 NOS.
4.C	G.I. BOLTS, NUTS & WASHERS FOR ITEM 4B (#16X85 LONG BOLTS NUT AND WASHER)	4 SET
5	D.O. FUSE UNIT	SET OF 3 NOS.
5.A	MOUNTING BRACKET FOR D.O. FUSE (100X50X2140 CHANNEL)	1 NO.
5.B	CLAMPS FOR ITEM 5.A (50X8 THK. FLAT)	2 NOS.
5.C	BOLTS, NUTS & WASHERS FOR ITEM 5B (#16X85 LONG BOLTS NUT AND WASHER)	4 SET
15	PIN INSULATOR 70 KN	1 NO.
15.A	PIN INSULATOR FITTING FOR 70 KN	2 NOS.
[illegible]	[illegible] FOR POLE	2 NOS.
[illegible]	[illegible] CHANNEL (100X50 MS CHANNEL)	1 NO.
15.B	CLAMP FOR ITEM 15 (50X8 & 6 MM FLAT)	2 NOS.
15.C	G.I. BOLTS, NUTS & WASHERS FOR ITEM 15A (#16X85 LONG BOLTS NUT AND WASHER)	2 SET
16	[illegible]	1 NO.
16.A	G. I. BOLTS, NUTS & WASHERS FOR ITEM 17 (#16X85 LONG BOLTS NUT AND WASHER)	1 SET
17	BARBED WIRE	4 K.G.
19	EYE HOOK FOR TPMO PIPE	1 SET
22	RABBIT CONDUCTOR	50 MTR
	STONE PAD	2 NOS.

APPROVED
Chief Engineer
(Material Management)
P.V.V.N.L., MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of [illegible] supply of material according to the Specification / Type test report / [illegible] shall be that of the [illegible] be checked during inspection."

PMA IPDS
RECPDCL

CONTRACTOR: L & T Construction
POWER TRANSMISSION & DISTRIBUTION

CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED | PROJECTION:

PROJECT: RURAL ELECTRIFICATION WORK AT MEERUT DISTRICT IN PVVNL OF U. P. STATE UNDER DDUGJY SCHEME

BY	NAME	SIGN
DRWN	VKS	
CHKD	NSH	
REV	LMM	
APPD	LMM	

TITLE: SUBSTATION TAKE OFF DP STRUCTURE WITH 11MTR STP POLE

SIZE	SCALE	REV NO
A4	1:100	0

DRAWING NUMBER: LNT/PVVNL/DDUGJY/MEERUT/GA-04

All Dimensions are in mm.

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/351/15-16

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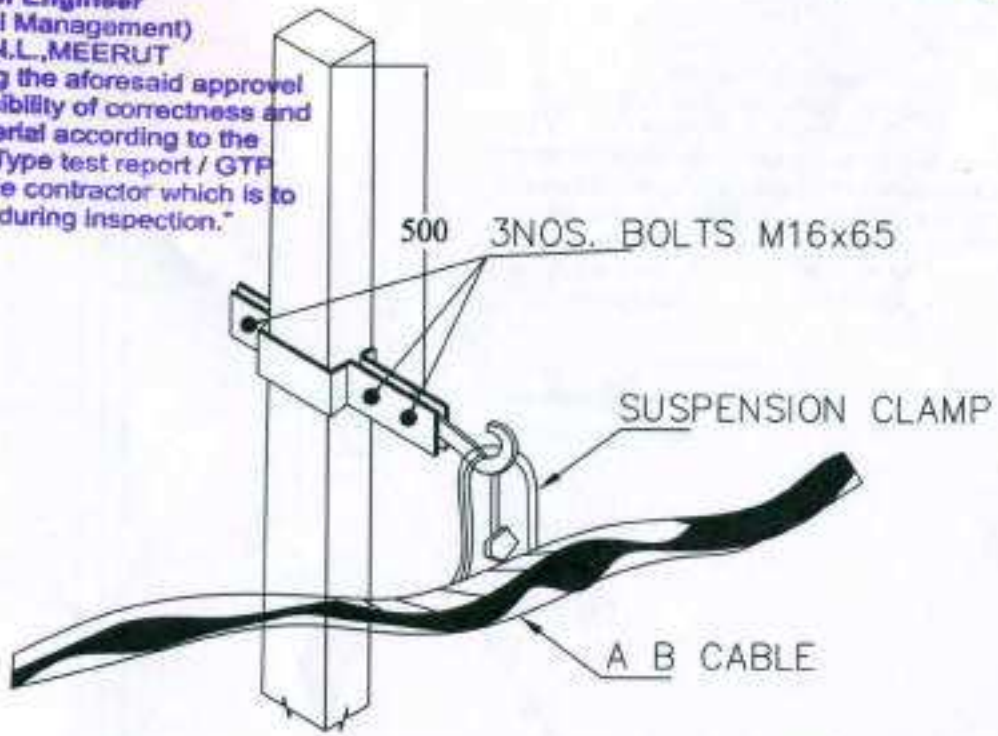
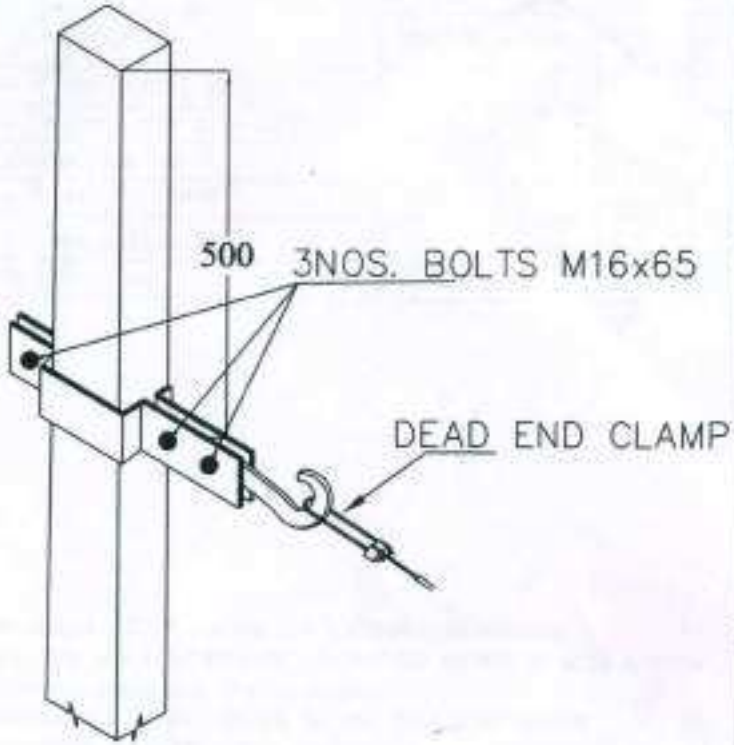


LT ABC WITH SUSPENSION CLAMP



LT ABC WITH DEAD END CLAMP

PMA IPDS/DDUGJY
RECPDCL

NOTE:- All Dimensions are in mm.

CONTRACTOR: L & T Construction POWER TRANSMISSION & DISTRIBUTION			
CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED			PROJECTION:
PROJECT : RURAL ELECTRIFICATION WORK AT MEERUT DISTRICT IN PVVNL OF U. P. STATE UNDER DDUGJY SCHEME			
BY	NAME	SIGN	TITLE: LT AB CABLE ARRANGEMENT WITH DEAD END & SUSPENSION CLAMP WITH 8.5M PCC POLE
DRWN	VKS		
CHKD	NSH		
REV	LNM		
APPD	LNM		
SIZE A4	SCALE 1:100	REVNO 0	DRAWING NUMBER. LNT / PVVNL / DDUGJY / MEERUT / GA-05

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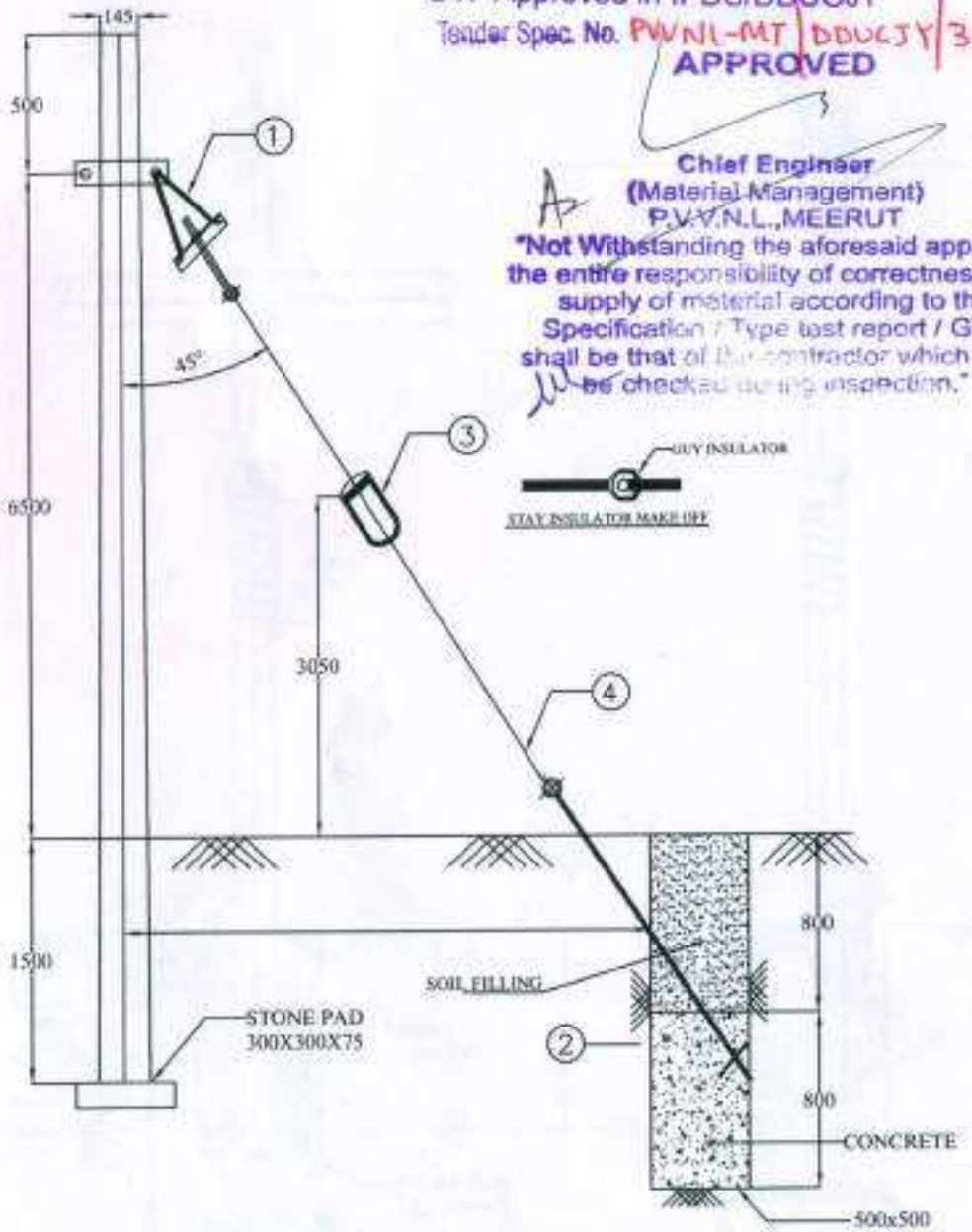
GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT/DDUGJY/351/15-16
APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."



STAY INSULATOR MAKE OFF

STAY SET ARRANGEMENT

PMA IPDS/DD
RECPDCL

BILL OF MATERIALS

ITEM NO	DESCRIPTION	SECTION	MATERIAL	LENGTH MM	QTY.
1	TURN BUCKLE ASSEMBLY		GI		
2	ANCHOR ROD & ANCHOR PLATE		GI		
a	ANCHOR ROD	.....	GI	1900	
b	ANCHOR PLATE	75MM		450X450	
3	GUY INSULATOR				
4	STAY WIRE	7/3.15mm	GI		

NOTES: –

1) ALL DIMENSION ARE IN MM UNLESS OTHERWISE MENTIONED.
2) ALL M.S ITEM SHALL BE HOT DIP GALVANISED AS PER IS 2629 & 4759
3) M.S MATERIAL SHALL CONFIRM TO IS: 2062
4) GUY INSULATORS TO BE UTILISED AS PER SPECIFICATION FOR HT & LT LINES RESPECTIVELY.

CONTRACTOR: L & T Construction POWER TRANSMISSION & DISTRIBUTION

CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED

PROJECTION:

PROJECT : RURAL ELECTRIFICATION WORK AT MEERUT DISTRICT IN PVVNL OF U. P. STATE UNDER DDUGJY SCHEME

BY	NAME	SIGN
DRWN	VKS	
CHKD	NSH	
REV	LNM	
APPD	LNM	

TITLE: **STAY SET ARRANGEMENT FOR 11KV/LT LINE**

SIZE	SCALE	REV NO
A4	0	1:100

DRAWING NUMBER. LNT/PVVNL/DDUGJY/MEERUT/GA-06

:- All Dimensions are in mm.

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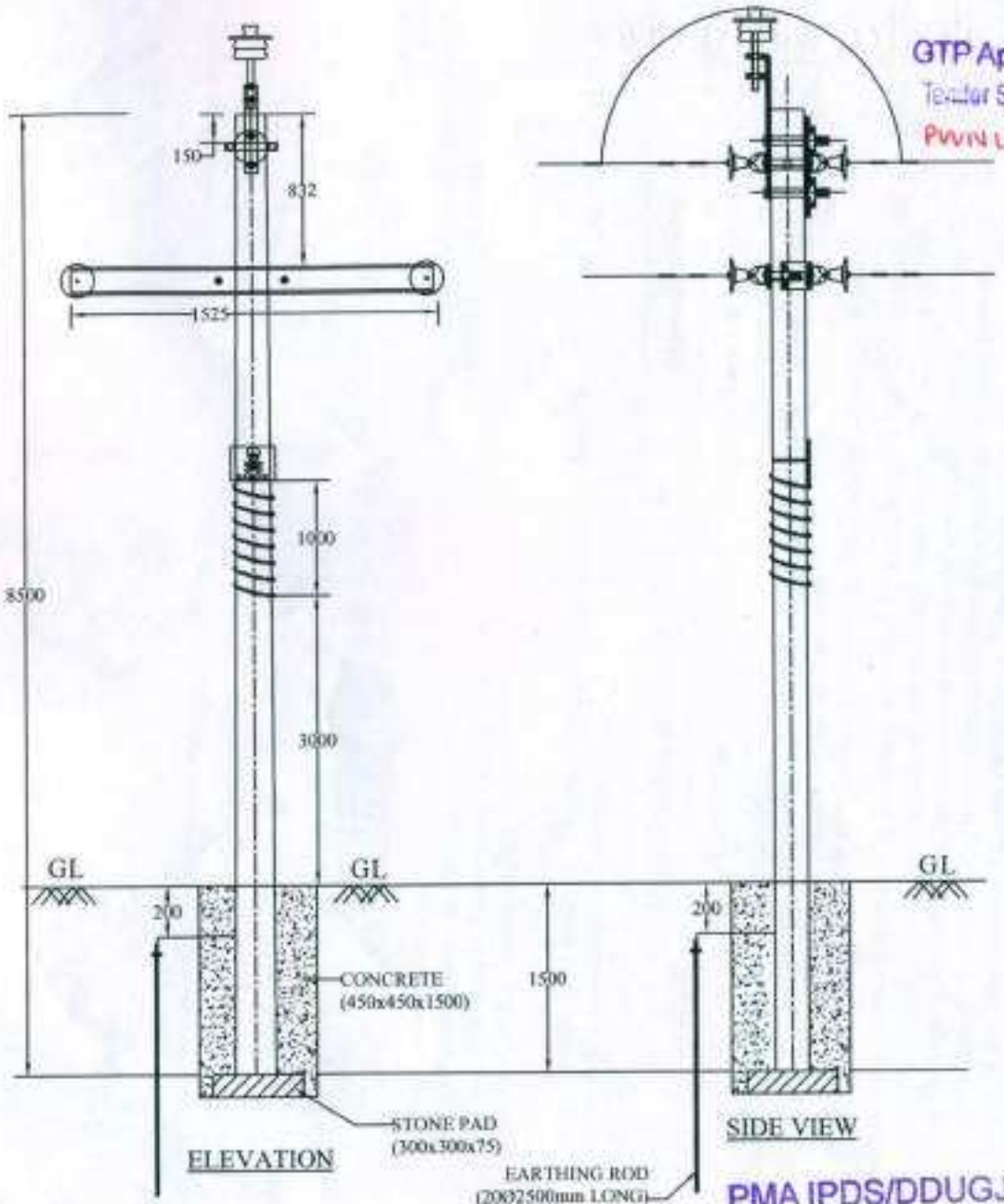
GTP Approved in IPDS/DDUGJY
Tender Spec. No.
PVVNL-MT/DDUGJY/351/15-16



BILL OF MATERIALS	
P.C.C POLE 8.5M	1 No
POLE TOP CLAMP	1 No
SINGLE POLE SECTION CHANNEL 100x50x1525MM	1 No
11KV PIN INSULATORS WITH PINS	1 No
11KV 45KN DISC INSULATOR	6 Nos.
BACK CLAMP FOR CHANNEL	1 No
EARTHING ROD	1 No
BOLTS,NUTS,CLAMPS ETC.	AS REQUIRED
STONE PAD	1 No

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approvel the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

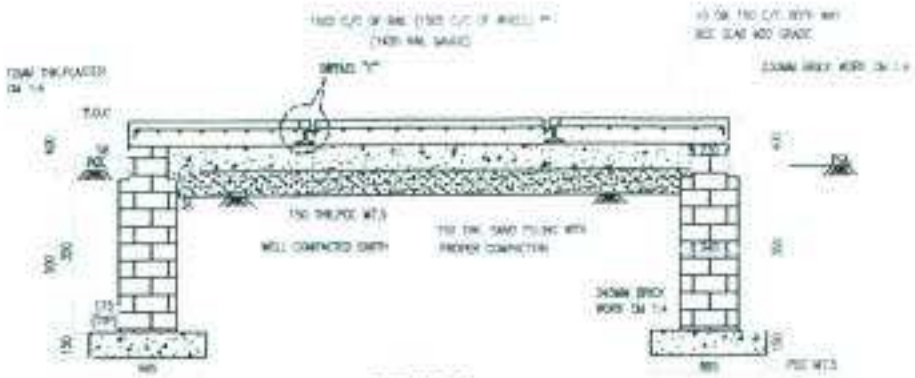
PMA IPDS/DDUGJY

RECPDCL

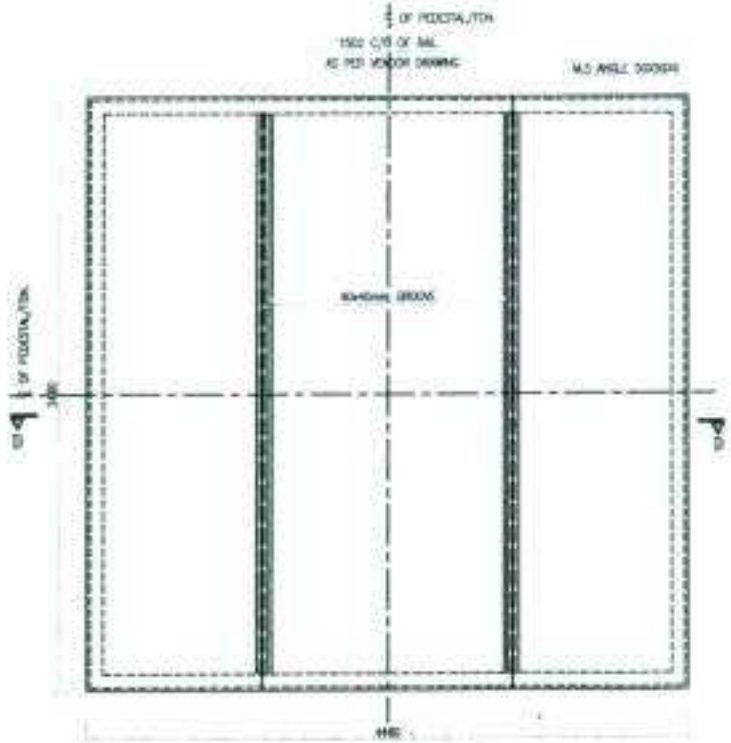
All Dimensions are in mm.

CONTRACTOR: L & T Construction POWER TRANSMISSION & DISTRIBUTION			
CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LIMITED			PROJECTION:
PROJECT: RURAL ELECTRIFICATION WORK AT MEERUT DISTRICT IN PVVNL OF U. P. STATE UNDER DDUGJY SCHEME			
BY	NAME	SIGN	TITLE: SECTION POLE ARRANGEMENT ON 8.5MTR PCC POLE
DRWN	VKS		
CHKD	NSH		
REV	LNM		
APPD	LNM		
SIZE A4	SCALE 1:100	REV NO 0	DRAWING NUMBER: L&L/PVVNNL/DDUGJY/MEERUT/GA.01

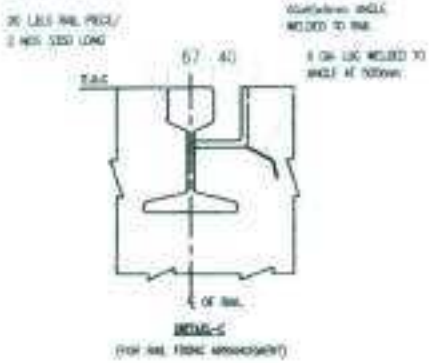
GTP Approved



SECTION D-D



PLAN AT TOP OF RAIL



DETAIL-C
(FOR RAIL FIXING ARRANGEMENT)

checked & recommended
PMA/DPS/DOUGLY

CHECKED BY		
ARCHITECTURAL	-	-
CIVIL/STRUCTURAL	-	-
PLUMBING/SANITARY	-	-
MECHANICAL	-	-
ELECTRICAL	-	-
INSTRUMENTATION	-	-

LEGEND:-

- CENTER LINE
- EGL — EXISTING GROUND LEVEL
- TYP — TYPICAL
- C/C — CENTER TO CENTER
- ℄ — CENTER LINE
- THK — THICK
- T.O.C — TOP OF CONCRETE

NOTES:-

1. ALL DIMENSIONS ARE IN MM &LEVEL ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. F.G.L CORRESPONDS TO FINISHED GROUND LEVEL.
3. ALL LEAN CONCRETE SHALL BE OF PCC M7.5 (1:4:8)
4. ALL RCC USED SHALL BE OF GRADE M20.
5. ALL REINFORCEMENT STEELSHALL BE HYSD BARS OF GRADE Fe 415 CONFORMING TO IS 1786.
6. GRADE OF STRUCTURAL STEEL SHALL BE MILD STEEL(GRADE I,2910) AS PER IS:2062-1992.
7. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 40mm.
8. ALL HOOKS,BENDS AND SPLICES SHALL BE AS PER IS 456 & IS 2502 O.H.D.
9. MIN.NET SAFE BEARING CAPACITY IS CONSIDERED AS 5T/sq.m AT FOUNDING LEVEL.
10. DEVELOPMENT LENGTH/LAP LENGTH FOR REINFORCEMENT BARS SHALL BE 50DIA OF BAR.

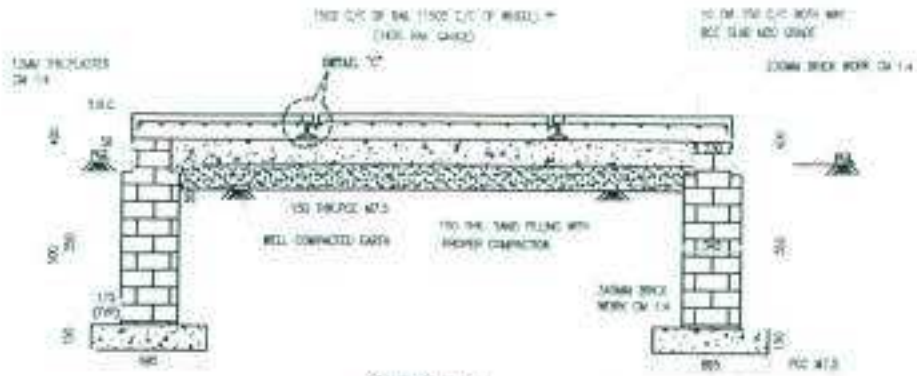
** MAY VERY BASED ON ACTUAL DIMENSION OF TRANSFORMER

APPROVED

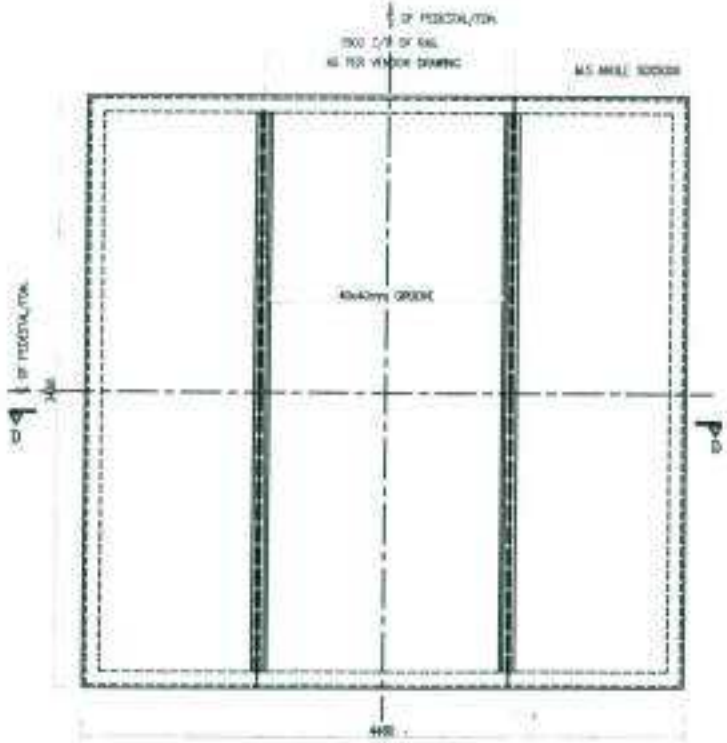
Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LTD. CONSULTANT:
PROJECT: DDUGJY PROJECT
CONTRACTOR: SATYA SAI BUILDERS AND CONTRACTORS, SHERULI
Satya Sai Builders & Contractors — Auth. Sign
TITLE:
DETAIL OF FOUNDATION FOR 10MVA & 5MVA TRANSFORMER
SIZE: A3
RELEASED FOR: ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☑ APPROVAL ☐ CONSTRUCTION

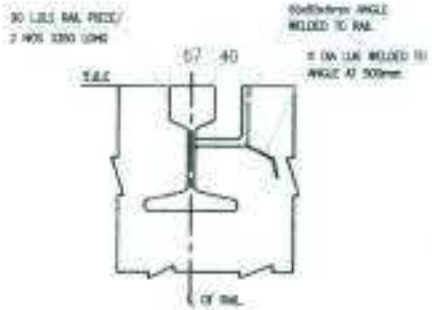
GTP Approved in IPDS DUGJY



SECTION B-B



PLAN AT TOP OF RAIL



DETAIL-'C'
(FOR RAIL FIXING ARRANGEMENT)

checked & recommended
PMA/PMS DUGJY

CHECKED BY	SIGN	DATE
ARCHITECTURE	-	-
CIVIL/STRUCTURAL	-	-
PLUMBING/SANITARY	-	-
MECHANICAL	-	-
ELECTRICAL	-	-
INSTRUMENTATION	-	-

LEGEND:-

- CENTER LINE
- EGL — EXISTING GROUND LEVEL
- TYP — TYPICAL
- C/C — CENTER TO CENTER
- ℄ — CENTER LINE
- THK — THICK
- T.O.C — TOP OF CONCRETE

REINFORCEMENT IS DENOTED AS 12 ϕ @ 150 C/C
- SPACING OF BAR IN MM
- HYSD BARS CONFORMING TO IS:1786
- DIA OF BAR IN MM

NOTES:-

1. ALL DIMENSIONS ARE IN MM & LEVEL ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. FGL CORRESPONDS TO FINISHED GROUND LEVEL.
3. ALL LEAN CONCRETE SHALL BE OF PCC M7.5 (1:4:8).
4. ALL RCC USED SHALL BEOF GRADE M20.
5. ALL REINFORCEMENT STEELSHALL BE HYSD BARS OF GRADE Fe 415 CONFORMING TO IS:1786.
6. GRADE OF STRUCTURAL STEEL SHALL BE MILD STEELGRADE E250(A) AS PER IS:2062:1992.
7. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 40mm.
8. ALL HOOKS,BENDS AND SPLICES SHALL BE AS PER IS 456 & IS 2502 S/N.O.
9. MINIMUM SAFE BEARING CAPACITY IS CONSIDERED AND 5T/sq.m AT FOUNDING LEVEL.
10. DEVELOPMENT LENGTH/LAP LENGTH FOR REINFORCEMENT BARS SHALL BE 50xDIA OF BAR.

*. MAY VERY BASED ON ACTUAL DIMENSION OF TRANSFORMER.

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L.,MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to be checked during inspection."

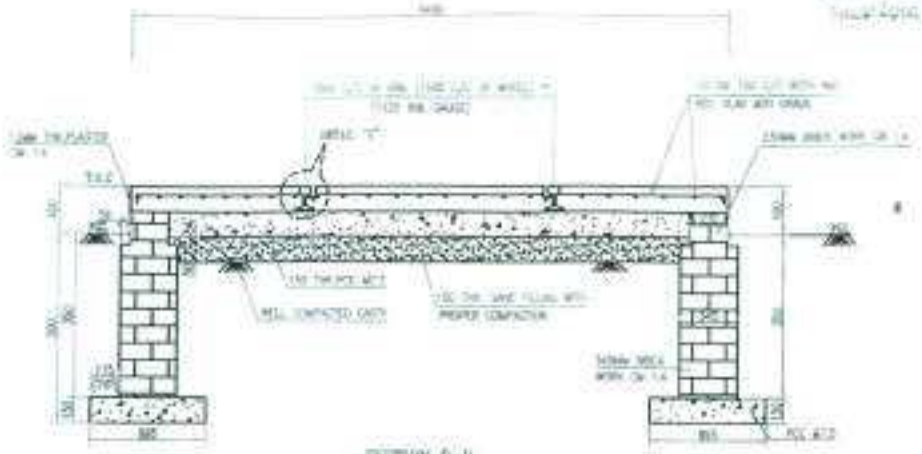
CLIENT: PASCHIMANCHAL VIDYUT VITRAN NIGAM LTD. | CONSULTANT:
PROJECT: DDUGJY PROJECT
CONTRACTOR: SATYA SAI BUILDERS AND CONTRACTORS, BAREILLY
Satya Sai Builders & Contractors Bareilly — Auth. Sign

TITLE:
DETAIL OF FOUNDATION FOR 10MVA & 5MVA TRANSFORMER

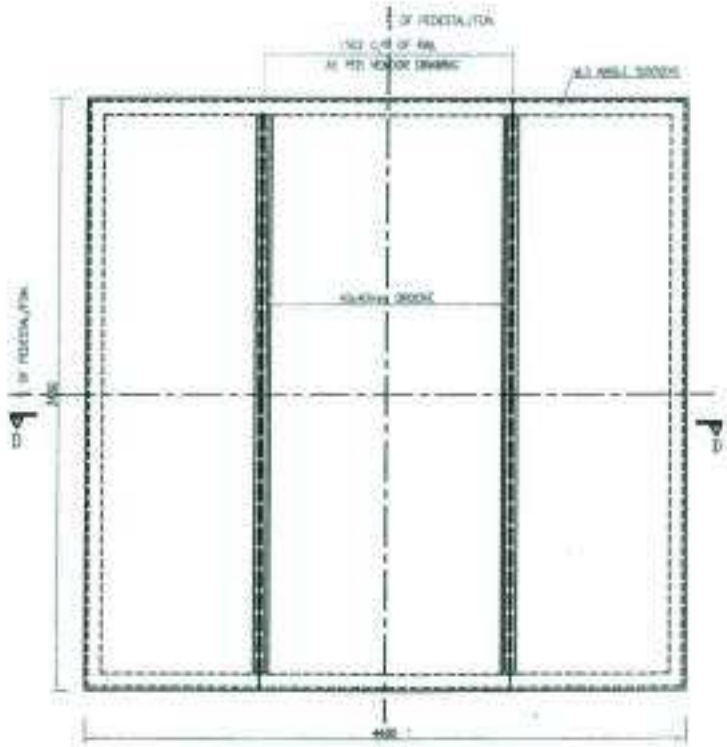
SIZE: A3

RELEASED FOR: ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☑ APPROVAL ☐ CONSTRUCTION

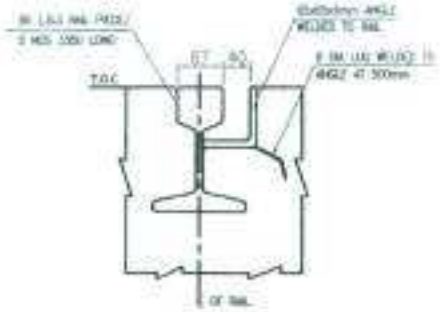
GTP Approved in IPDS/DDUGJY



SECTION D-D



PLAN AT TOP OF RAIL



DETAIL-C
(FOR RAIL FIXING ARRANGEMENT)

Checked & recommended
PMA IPDS/DDUGJY
AEE PDCL

CHECKED BY	SIGN	DATE
ARCHITECTURE	-	-
CIVIL/STRUCTURAL	-	-
PLUMBING/SANITARY	-	-
MECHANICAL	-	-
ELECTRICAL	-	-
INSTRUMENTATION	-	-

LEGEND :-

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS ARE IN METRES UNLESS OTHERWISE SPECIFIED
2. FGL CORRESPONDS TO FINISHED GROUND LEVEL
3. ALL PLAIN CONCRETE SHALL BE OF M15 (1:4:8)
4. ALL RCC USED SHALL BE OF GRADE M20
5. ALL REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE Fe 415 CONFORMING TO IS:1786
6. GRADE OF STRUCTURAL STEEL SHALL BE MILD STEEL GRADE (250N) AS PER IS:2062:1992
7. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 40mm.
8. ALL HOOKS/BENDS AND SPLICES SHALL BE AS PER IS 456 & IS 2062 (LRFD)
9. MIN NET SAFE BEARING CAPACITY IS CONSIDERED AS 5T/sq.m AT FOUNDING LEVEL
10. DEVELOPMENT LENGTH/LAP LENGTH FOR REINFORCEMENT BARS SHALL BE 50DIA OF BAR
11. MAY VERY BASED ON ACTUAL DIMENSION OF TRANSFORMER

APPROVED

Chief Engineer
(Material Management)
P.V.V.N.L. MEERUT
"Not Withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification / Type test report / GTP shall be that of the contractor which is to ... during ... inspection."

SUBMIT: PATHUMAKAL TRACT THERMAL POWER LTD | CONSULTANT:
PROJECT: DDUGJY PROJECT
CONTRACTOR: SATYA NAT BUILDERS AND CONTRACTORS, BAREILLY

Satya Nat Builders & Contractors
Auth. Sign

TITLE:
DETAIL OF FOUNDATION FOR 10MVA & 5MVA TRANSFORMER

SIZE A3

RELEASED FOR: ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☑ APPROVAL ☐ CONSTRUCTION

राष्ट्र हित में बिजली बचायें

SAVE ELECTRICITY IN THE INTEREST OF THE NATION

दूरभाष /Ph.: 0121-2665734
फैक्स / Fax: 0121-2666062
CIN: U31200UP2003SGC027458

कार्यालय :
Office of the :
प्रबन्ध निदेशक
MANAGING DIRECTOR
पश्चिमांचल विद्युत वितरण निगम लि.,
Paschimanchal Vidyut Vitran Nigam Ltd.,
विक्टोरिया पार्क, मेरठ
Victoria Park, MEERUT-250 001
CIN No. U31200UP2003SGC027458

No.:23476/ PVVNL-MT/ DDUGJY/15-16 Dated: 4.03.2017

Subject:- Approval of GTP/Drawing of Material/Equipment for Work of urban and rural electrification in PVVNL under IPDS and DDUGJY scheme

M/s Dynamic Power Solutions,
Mainapur Road, Industrial area, Morta
Ghaziabad, 201003

Email ID – dynamicpowersol@yahoo.com

Dear Sir,

Please refer to your letter No. Nil dated nil regarding approval of the GTP & Drawing of the material & make as detailed below:-

Sl. No.	Material/equipment	Approved Vendor
1.	*MS Earthing rod*	**M/s Dynamic Power Solutions, Ghaziabad**
	Steel Structures	

This approval is subject to the following conditions:-

1. *The said approval is with the condition the material supplied by the above firms may be sent by Managing Director, PVVNL, Meerut for testing by independent lab on firm's cost.*
2. *M/s* Dynamic Power Solutions, Ghaziabad *is not blacklisted/Debarred by any Discom/Govt. Organization.*

Correction wherever required in GTP & Drawing submitted by the contractor has been done by red ink However, these GTP & Drawing shall be subjected to the valid type test report and correctness as per technical specification of the SBD for IPDS/DDUGJY and tender document and the entire responsibility of the correctness of the GTP & Drawing as per the specification as well as supply of material according to the technical specification of the contract agreement and these GTP & Drawing shall be that of the contractor.

In case of any contradiction between GTP & Drawing & Technical specification the version of the M.D. PVVNL, Meerut shall be final and binding on both the parties. Contractor shall have to replace the material to the entire satisfaction of purchaser in case the material is not found suitable for use in the projects.

One copy of approved GTP and Drawings are enclosed herewith. This GTP and Drawing shall be treated as approved for all tenders under DDUGJY and IPDS scheme.

Encl.: As above

Your's faithfully

(S K Singh)
Superintending Engineer (IPDS & DDUGJY)

No.:23476/ PVVNL-MT/ DDUGJY/15-16 Dated: 4.03.2017

Copy forwarded to following for information and necessary action:

1. Chief Engineer, Moradabad Zone, Moradabad.
2. SE (Equator), PVVNL, Meerut.
3. SE(EDC/EUDC), Moradabad/Rampur/Amroha/Bijnor/Sambhal.
4. Project Manager M/s. REC, PDCL, (PMA for IPDS/DDUGJY)

(S K Singh)
Superintending Engineer (IPDS & DDUGJY)

GTP Approved in IPDS/DDUGJY
Tender Spec. No. PVVNL-MT

GUARANTEED TECHNICAL PARTICULARS OF EARTHING ROD

SL. NO.	PARTICULARS	NAME OF THE FIRM: DYNAMIC POWER SOLUTIONS MORTA GHAZIABAD 201003
1	MATERIAL	MILD STEEL as per IS : 2062 grade 'a'
2	LENGTH OF M.S. EARTHING ROD	2540 MM
3	TOTAL WEIGHT OF M.S. EARTHING ROD	Min. 6.4 KG without nut, bolt & washer
4	DIAMETER OF M S ROD	20MM
5	SIZE OF FLAT	50X6MM
6	MATERIAL	M.S. ROUND 20 MM M.S. FLAT 50×6 MM
7	TOLERANCE	±2.5%

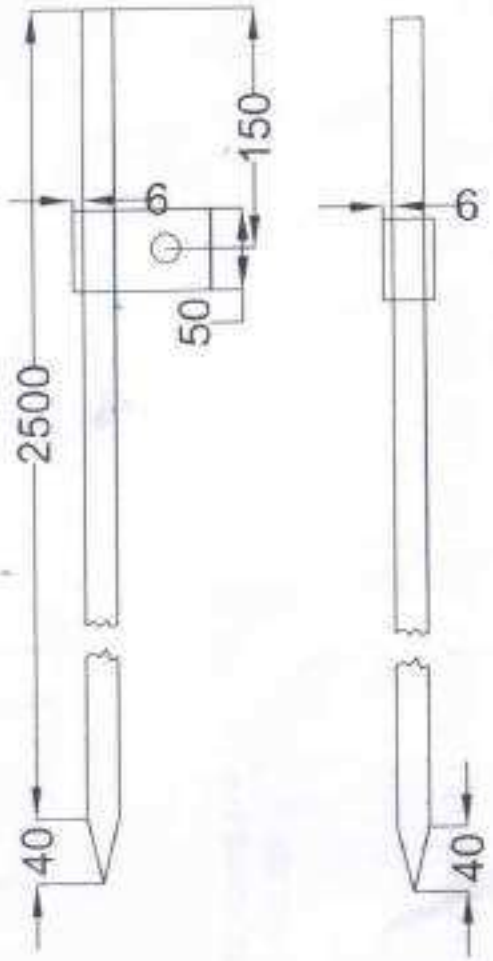
Size of bolt & nut (with 2 nos. plain washer & 1 no. spring washer) — M12 X 40MM

PMA IPDS/DDUGJY
Ashish
RECPDCL

Dynamic Power Solutions Ghaziabad Meerpur Road Morta

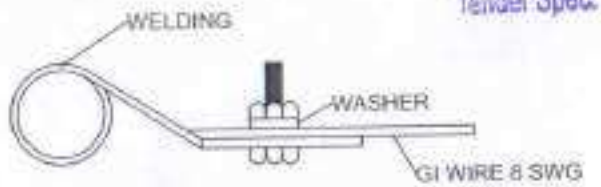
APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Sepecification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

GTP Approved in IPDS/DDUGJY
Tender Spec. No.



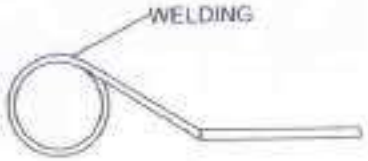
ELEVATION

SIDE ELEVATION



CONNECTION WITH NUT BOLT

Note: the coil eye of GI Wire shall be Flattened by hammering
to have proper contact surface with flat



PLAN

Note:
1 DRAWING NOT TO SCALE
2 ALL DIMENSIONS ARE IN MM
3 VARIATION- ~~+5%~~ 2.5%

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

Dynamic Power Solutions Ghaziabad Mainapur Road Morta

DYNAMIC POWER SOLUTIONS

MAINAPUR ROAD IDUSTRIAL AREA
MORTA GHAZIABAD

MS EARTHING ROD

PMA IPDS/DDUGJY
Ashish
RECPDCL

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

GUARANTEED TECHNICAL PARTICULARS FOR 11 KV V TYPE "X" ARM

SL.NO.	NAME OF THE FIRM PARTICULARS	DYNAMIC POWER SOLUTIONS GHAZIABAD
1	MATERIAL ISS NO.	
	(i) FOR MILD STEEL	MILD STEEL IS: 2062 grade 'G'
	(ii) FOR WELDING PURPOSE	IS: 823-1964/LATEST
	(iii) FOR ELECTRODES	IS: 814 PART1
2	SIZE OF M S ANGEL	65X65X6MM
3	TOTAL RUNNING LENGTH	As per drawing
4	TOTAL WEIGHT OF X ARM	9.1 KG
5	TOLERANCE	±2.5%
6	Make of Red Oxide Primer	Asian/Berger/Nerolac/Bristish

All steel structure shall be hot dip galvanised.
Min zinc coating shall be 610gm/m²

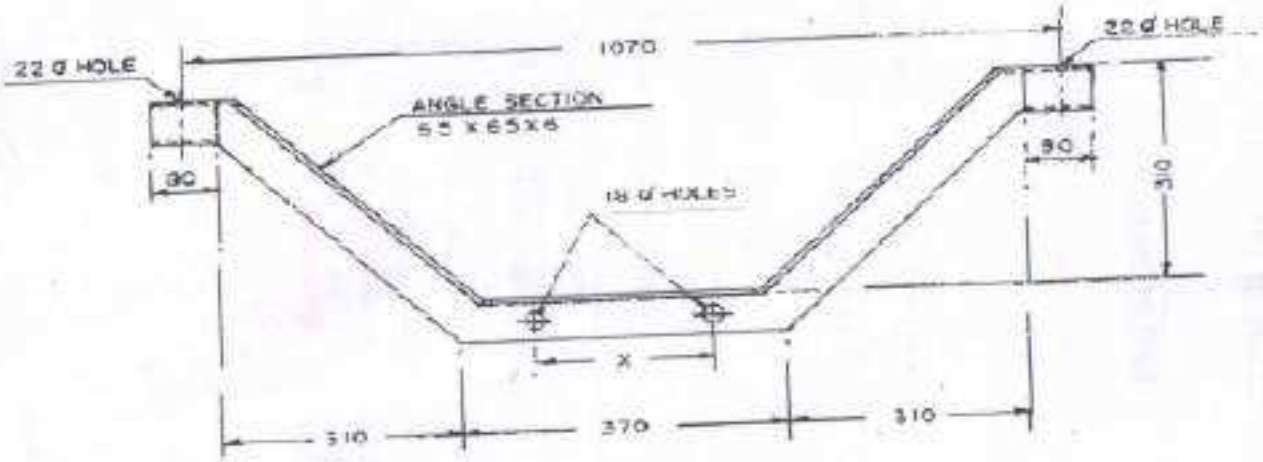
APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP which is that of the contractor which is to be checked during inspection."

PMA IPDS/DDUGJY
Ashish
RECPDCL

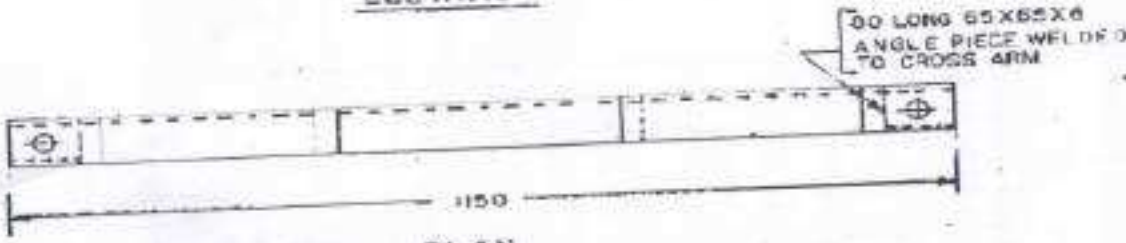
GTP Approved in IPDS/DDUGJY

Tender Spec. No.

11 KV LINE "V" TYPE X ARM (ANGEL SECTION 65X65X6)



ELEVATION



PLAN

APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT

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Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS items shall be HOT Deep Galvanized.

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad.
Title: -	11 KV LINE "V" TYPE X ARM (Angel Section - 65X65X6)

PMA IPDS/DDUGJY

RECPDCL

Dynamic Power Solutions Ghaziabad Meerut Road Hapur

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

GUARANTEED TECHNICAL PARTICULARS FOR 33 KV V TYPE "X" ARM

SL.NO.	NAME OF THE FIRM PARTICULARS	DYNAMIC POWER SOLUTIONS GHAZIABAD
1	MATERIAL ISS NO.	
	(i) FOR MILD STEEL	MILD STEEL IS: 2062 grade 'a'.
	(ii) FOR WELDING PURPOSE	IS: 823-1964/LATEST
	(iii) FOR ELECTRODES	IS: 814 PART1
2	SIZE OF M S CHANNEL	100X50MM
3	Weight of channel in running meter	~~7.9 kg/ mtr~~ 9.56 Kg/mtr
4	TOTAL WEIGHT OF X ARM	~~16.55 KG~~ 21 kg
6	Make of Red oxide Primer	Asian/ Berger/Nerolac/British
7	Wheather ISS certification marks provided on Ms channel	NO
5	TOLERANCE in Dimension	±5%

All steel structure shall be hot dip galvanised. Min. zinc coating shall be 610gm/m².

Dynamic Power Solutions Ghaziabad

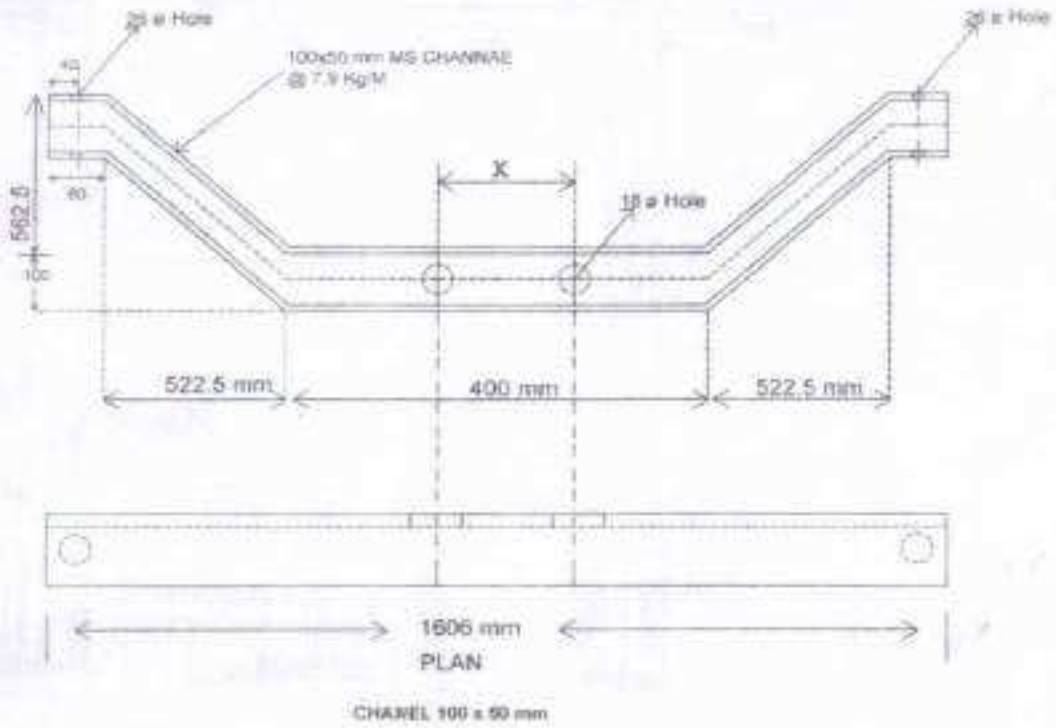
PMA IPDS/DDUGJY
Ashish
RECPDCL

APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Sepecification/Type test report/GTP shall be that of the contractor which is to

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

33 KV LINE "V" TYPE X ARM (100×50 CHANNEL 7.9Kg/m)



APPROVED
Chief Engineer
(IPDS/DDUGJY)
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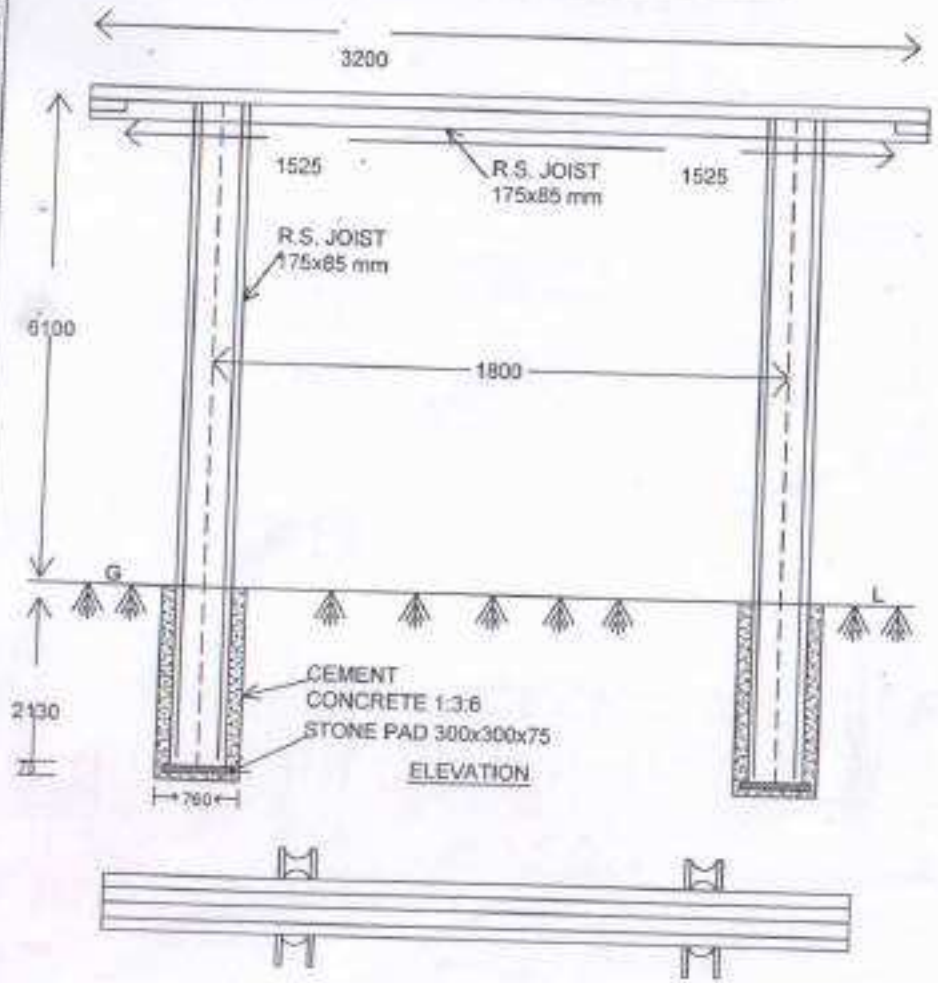
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Dip Galvanized.

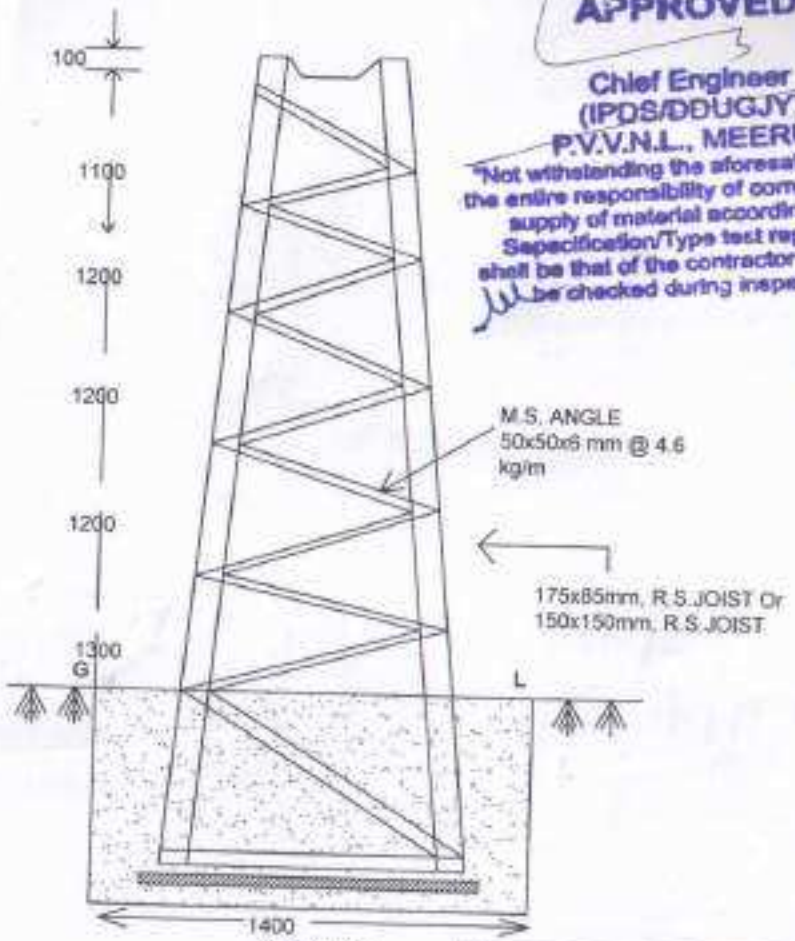
Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad.
Title: -	33 KV LINE "V" TYPE X ARM (100×50 CHANNEL)

PMA IPDS/DDUGJY
Ashish
RECPDCL

STRUCTURE FOR TERMINAL GANTRY



ELEVATION



SIDE VIEW

APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT

"Not withstanding the aforesaid app
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NOTES :-

1. ALL DIMENSIONS ARE IN MM.
2. DRAWING NOT TO SCALE.
3. ALL MS FABRICATED ITEMS SHALL BE HOT DIP GALVANISED
4. VARIATION - ± 5%

PMA IPDS/DDUGJY
Ashish
RECPDCL

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PCC,MCC,
HT/LT LINE ACCESSORIES
WORKS-3/1334 MAINAPUR INDUS. AREA
MORTA, GHAZIABAD 201003
EMAIL:- info@dynamicpower.in

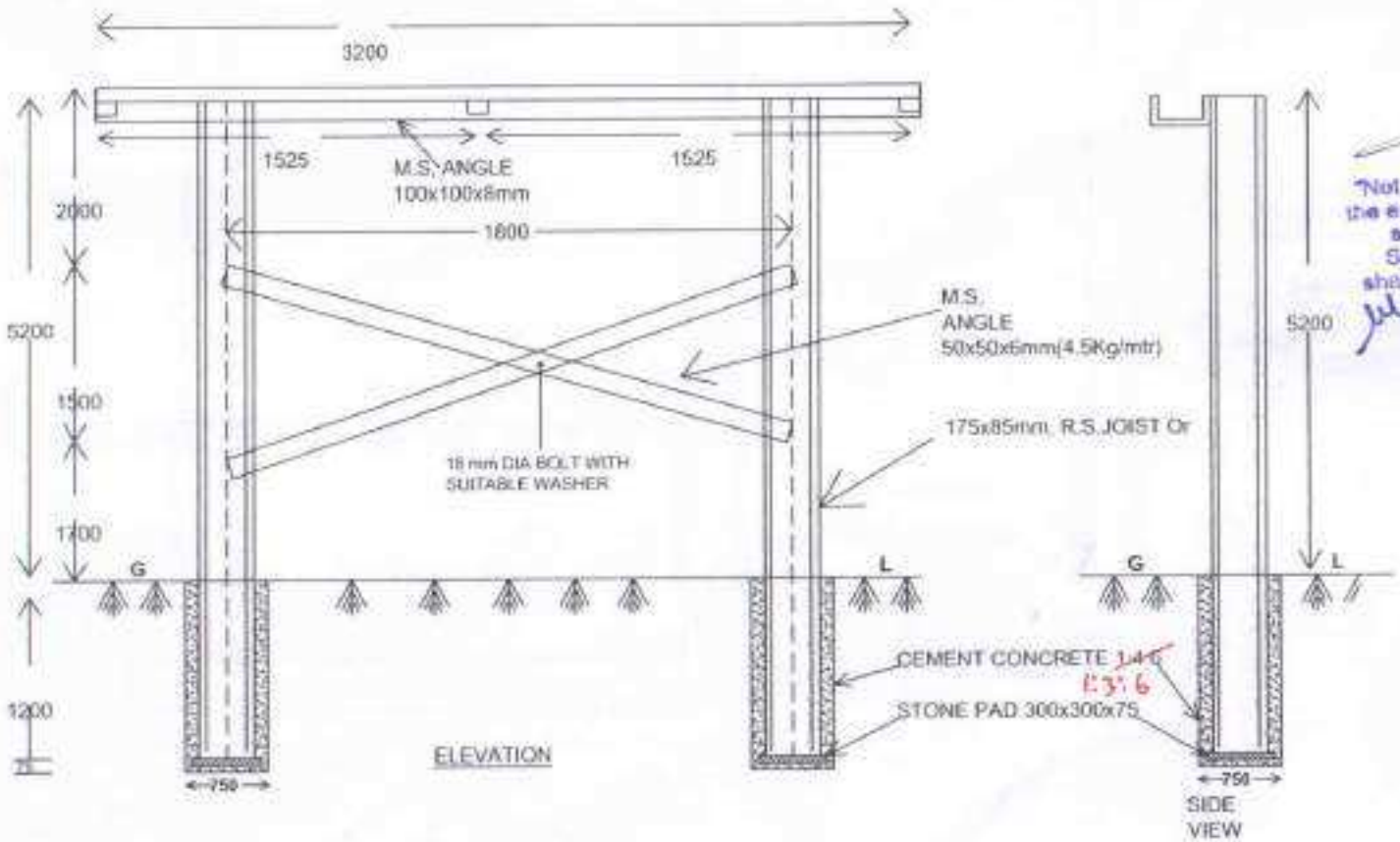
CLIENT- Mr OMVEER SINGH

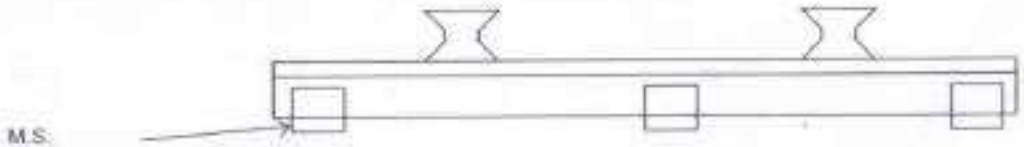
Pachimanchal Vidyut Vitran Nigam Limited

PROJECT- IPDS - SAHARANPUR PROJECT

TITLE- Structure For 33KV TERMINAL GANTRY

STRUCTURE FOR BUSBAR GANTRY





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APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
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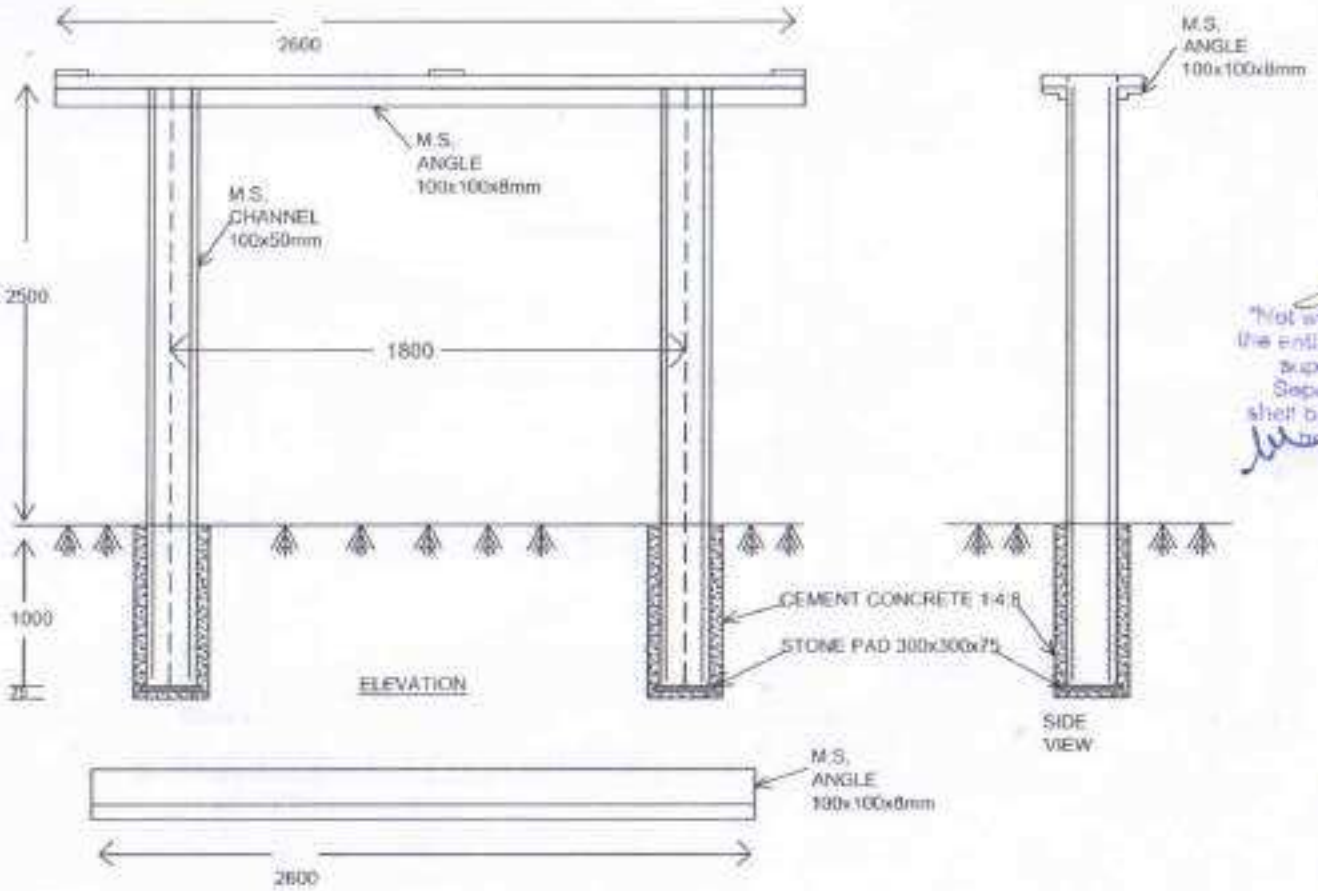
Dynamic Power Solutions
Ghaziabad
Mainpur Road Morta

PMA IPDS/DDUGJY
Ashish
RECPDCL

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PCC,MCC,
HT/LT LINE ACCESSORIES
WORKS-3/1334 MAINAPUR INDUS. AREA
MORTA GHAZIABAD 201003
EMAIL info@dynamicpower.in
CONT. Mr. DALVEER SINGH
Pachimanchal Vidyut Vitran Nigam Limited
PROJECT IPDS - SAHARANPUR PROJECT
TITLE Structure For 33KV BUSBAR GANTRY

STRUCTURE FOR 33 KV CT



APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
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Dynamic Power Solutions Ghaziabad Mainapur Road Morta

NOTES :-

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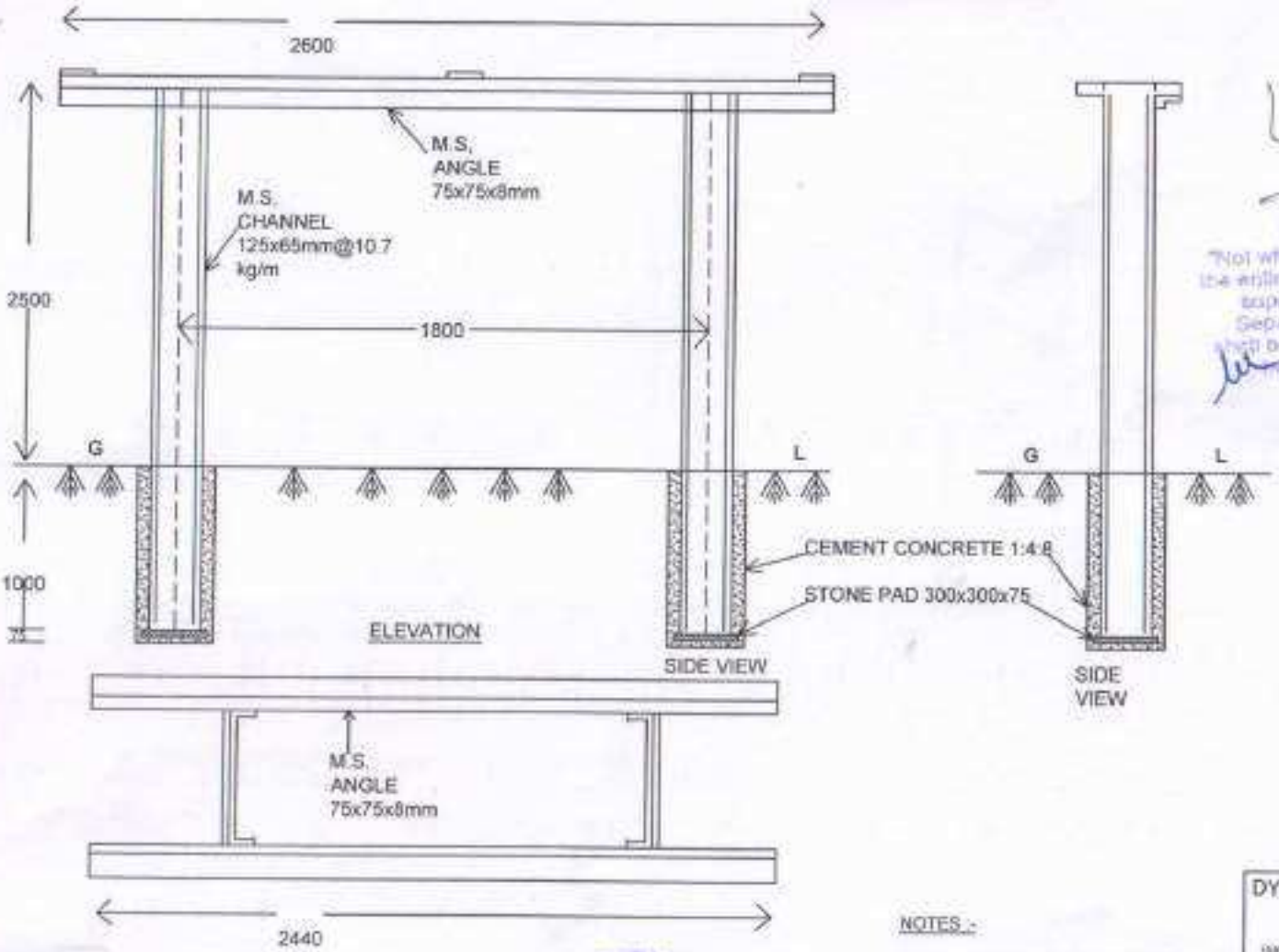
4. VARIATION - ± 5%

PMA IPDS/DDUGJY
Ashish
RECPDCL

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PCC,MCC, HT/LT LINE ACCESSORIES
WORKS:3/1334 MAINAPUR INDUS. AREA MORTA GHAZIABAD 201003
EMAIL- info@dynamicpower.in
CLIENT: Mr.DAVEER SINGH
Purvanchal Vidyut Vitran Nigam Limited
PROJECT- IPDS - SAHARANPUR PROJECT
TITLE: Structure For 33KV CT

STRUCTURE FOR 33 KV FUSE SET



APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness & supply of material according to the Specification/Type test reports shall be that of the contractor which is checked during inspection."

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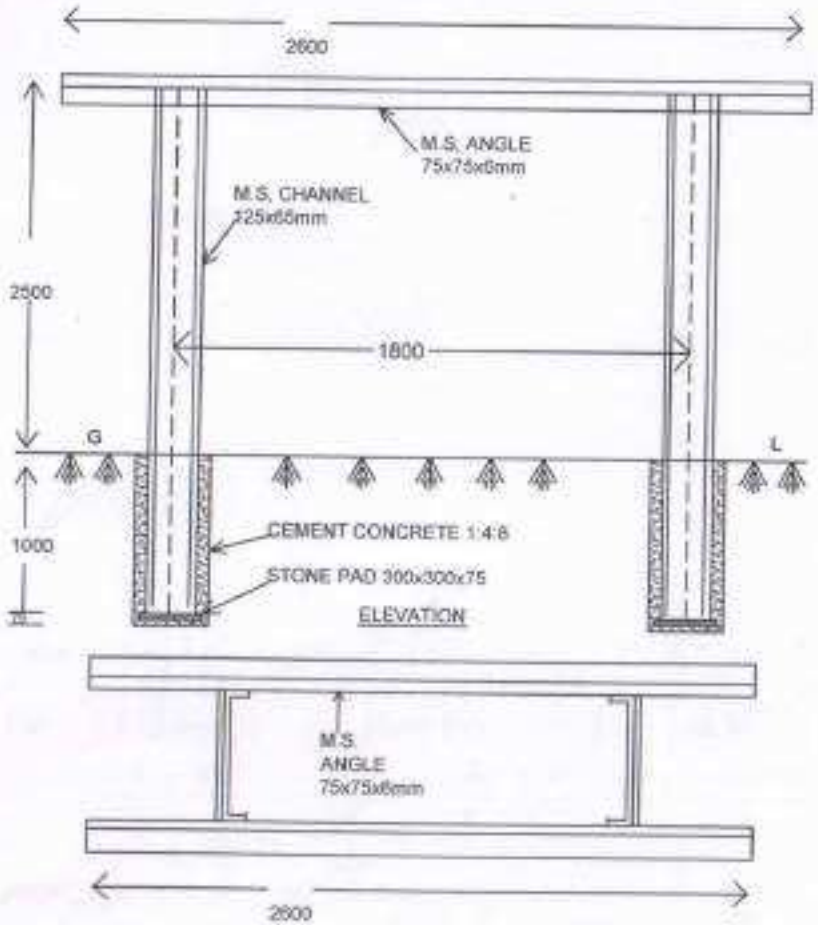
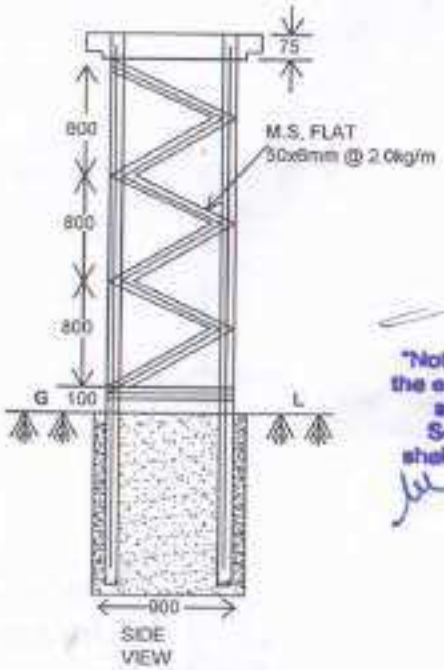
DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PCC,MCC, HT/LT LINE ACCESSORIES
WORKS-3/1334 MAINAPUR INDUS. AREA MORTA GHAZIABAD 201003
EMAIL: info@dynamicpower.in
CLIENT: Mr. DAVEER SINGH
Paschimanchal Vidyut Vitran Nigam Limited
PROJECT- IPDS - SAHARANPUR PROJECT
TITLE- Structure For 33KV FUSE SET

PMA IPDS/DDUGJY
RECPDCL

Dynamic Power Solutions Ghaziabad Hapur Road Morta

STRUCTURE FOR 33 KV ISOLATOR





APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid appro
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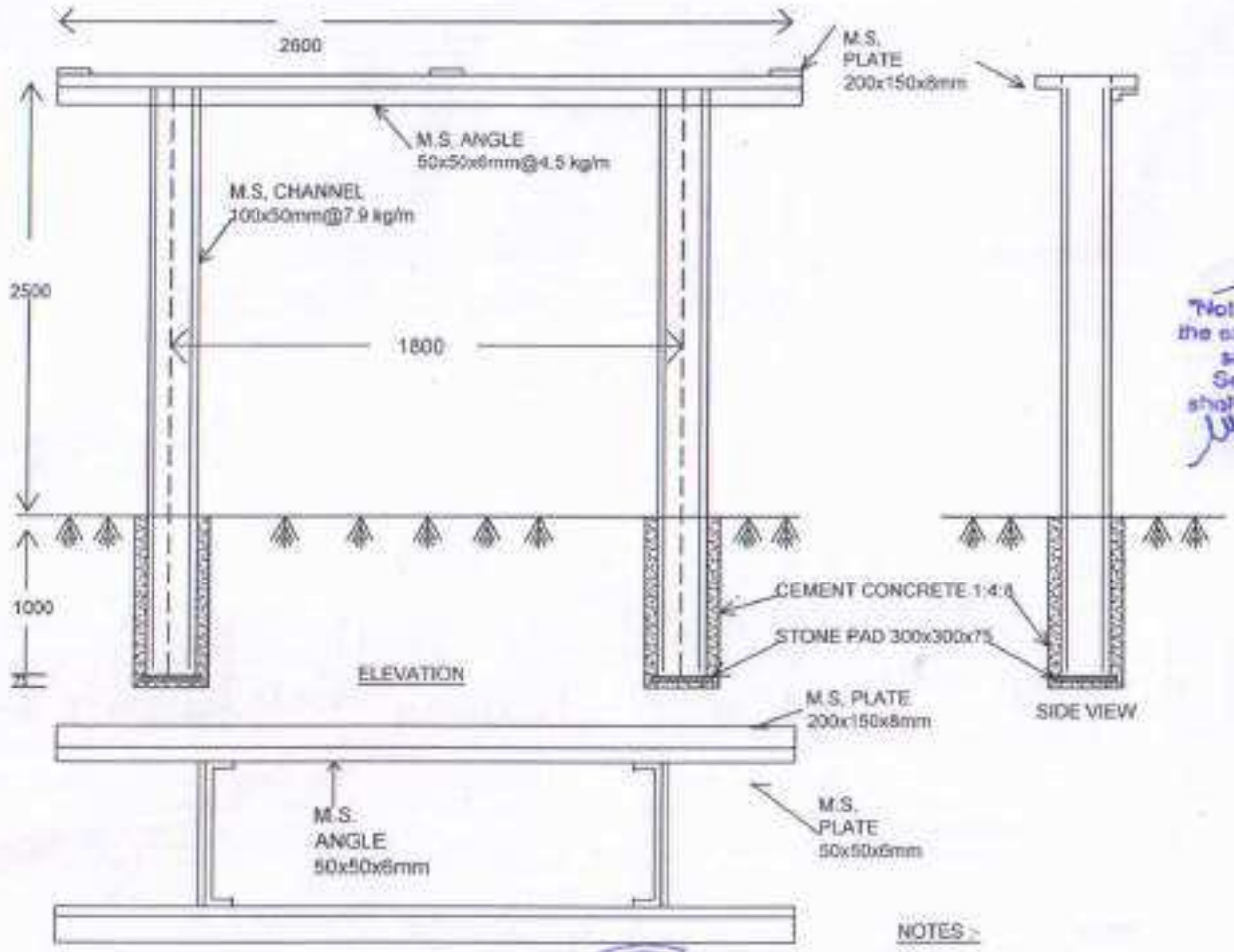
PMA IPDS/DDUGJY
RECPDCL

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PCC,MCC,
HT/LT LINE ACCESSORIES
WORKS-3/1334 MANAPUR INDUS. AREA
MORTA GHAZIABAD 201003
EMAIL- info@dynamicpower.in
CLIENT- M/s DAVEER SINGH
Pachkhwalial Vidyut Vitran Nigam Limited
PROJECT- IPDS - SAHARANPUR PROJECT
TITLE- Structure For 33KV ISOLATOR

STRUCTURE FOR 33 KV LIGHTING ARRESTERS



APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
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4. VARIATION - ± 5%

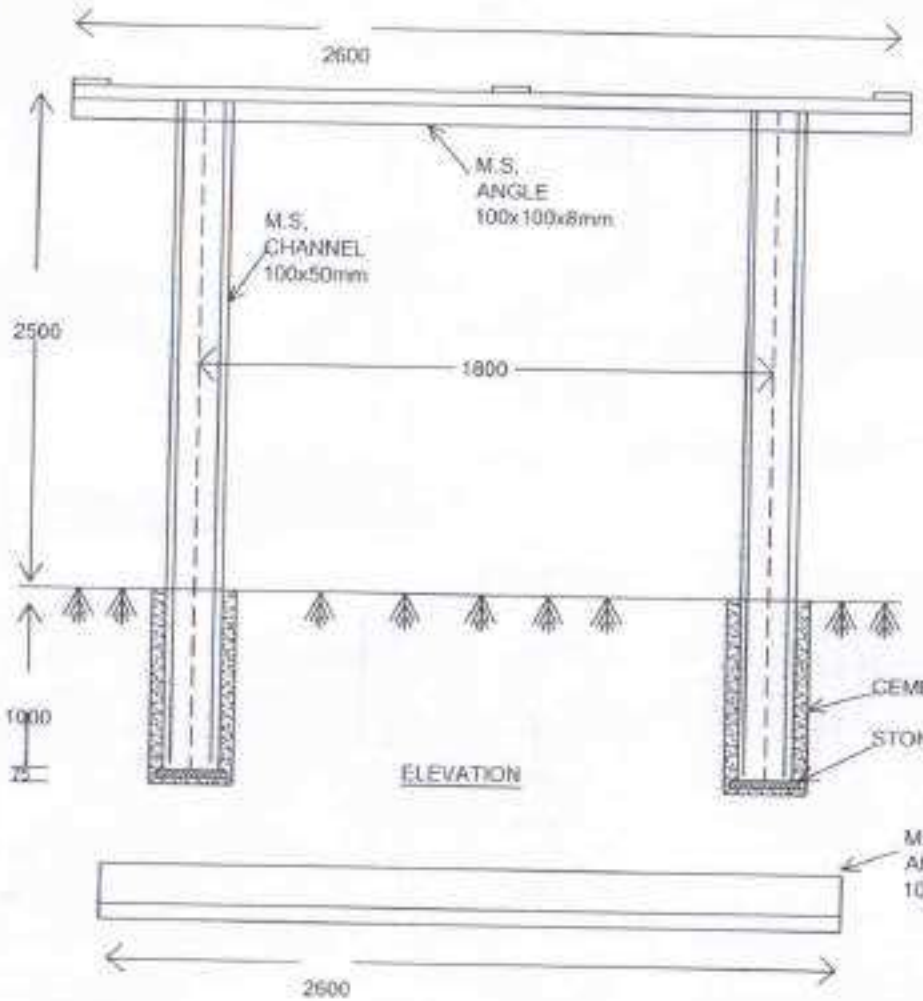
PMA IPDS/DDUGJY
RECPDCL

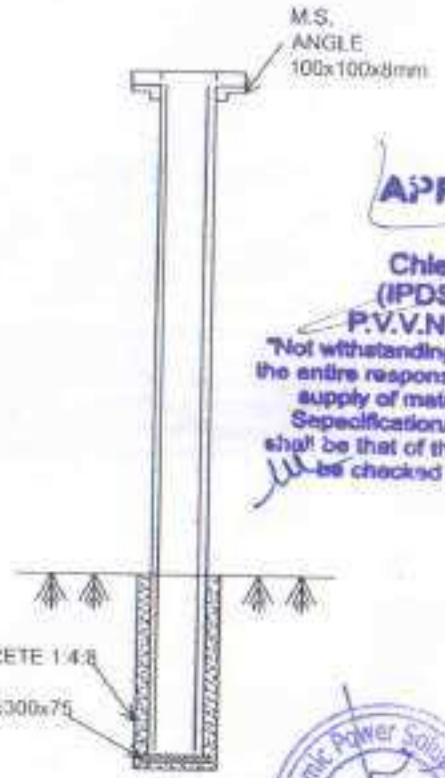
Dynamic Power Solution Vasupur Road

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS,APFC,PDC,MCC, HT/LT LINE ACCESSORIES
WORKS-3/1334 MAINAPUR INDUS. AREA MORTA GHAZIABAD 201003
EMAIL- info@dynamicpower.in

CLIENT- M/s DIVEER SINGH	
Pashchimanchal Vidyut Vitran Nigam Limited	
PROJECT- IPDS - SAHARANPUR PROJECT	
TITLE- Structure For 33KV Lighting Arrester	

STRUCTURE FOR 33 KV PT





APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT

"Not withstanding the aforesaid app
the entire responsibility of correctnes
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be checked during inspection."

Dynamic Power Solutions
Ghaziabad
Mainpur Road Morta

NOTES -

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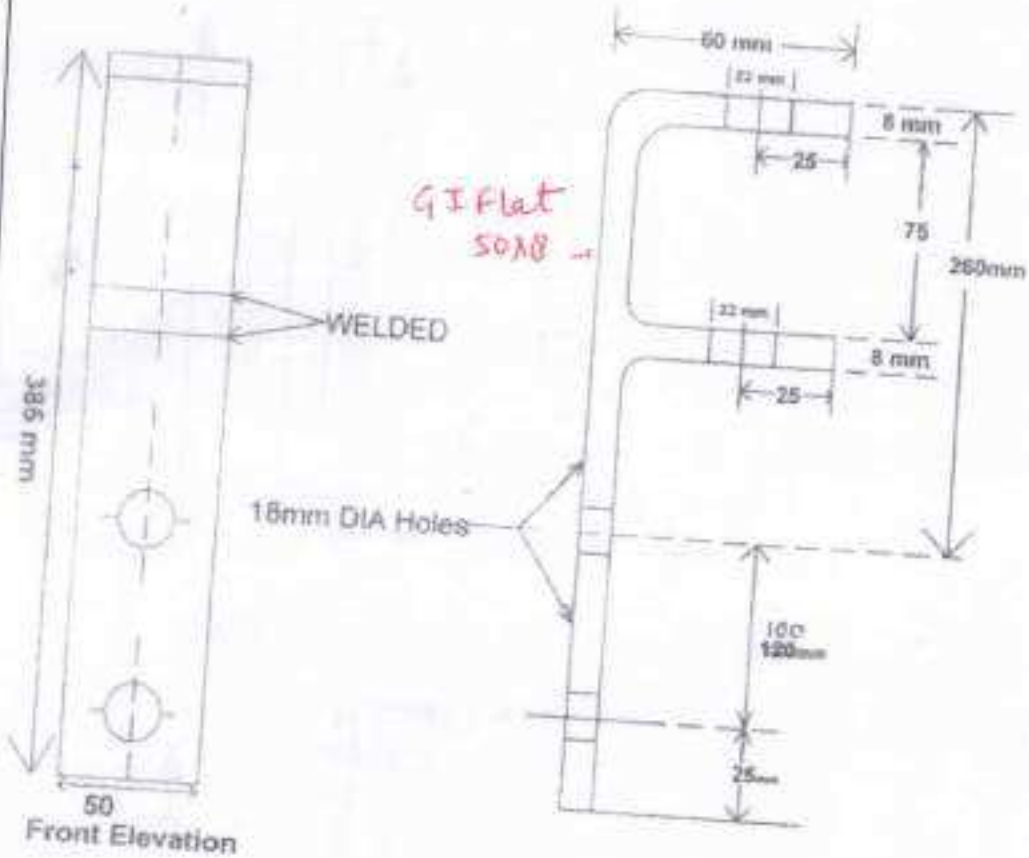
3. ALL MS FABRICATED ITEMS SHALL BE HOT DIP GALVANISED
4. VARIATION - ± 5%

DYNAMIC POWER SOLUTIONS
Mfrs- LT PANELS, APFC, POC, MOC, HT/LT LINE ACCESSORIES
WORKS-3/133/ MAINAPUR INDUS. AREA MORTA, GHAZIABAD 201003
EMAIL- info@dynamicpower.in
CLIENT- M/s DEWEER SINGH
Parmanand Vidyut Vikas Nigam Limited
PROJECT- IPDS- SAHARANPUR PROJECT
TITLE- Structure For 33KV PT

PMA IPDS/DDUGJY
RECPDCL

F – BRACKET FOR 11 KV LINE

GTP Approved in IPDS/DDUGJY
Tender Spec. No.



APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

Dynamic Power Solutions Ghaziabad Manipur Road Morh

Notes:-
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name:-	Dynamic Power Solutions, Ghaziabad
Title:-	F-Bracket

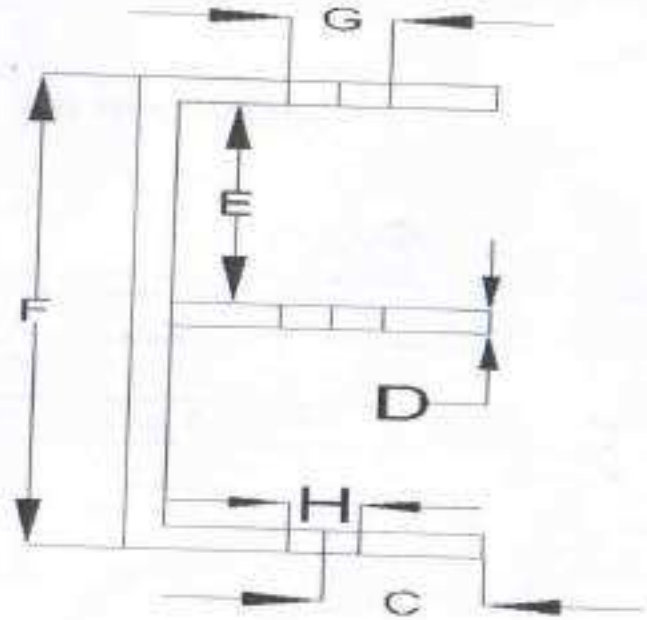
PMA IPDS/DDUGJY
Ashish
RECPDCL

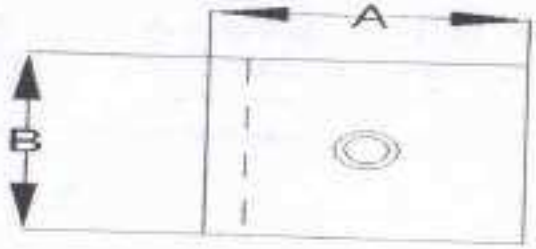
Min wt. – 1.4Kg
All steel structure shall be hot dip galvanised.
Min. zinc coating shall be 610 gm/m².

E – BRACKET

GTP Approved in IPDS/DDUGJY

Tender Spec. No.





APPROVED

Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT

"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

E BRACKET	MS FLAT	A	B	C	D	E	F	G	H
11 KV LINE	50X8MM	60	50	25	8	88	200	22	18
33 KV LINE	75X10MM	80	75	40	10	85	200	26	18

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	E-Bracket

All steel structure shall be hot dip galvanised. Min. zinc coating shall be 610 gm/m²

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

PMA IPDS/DDUG

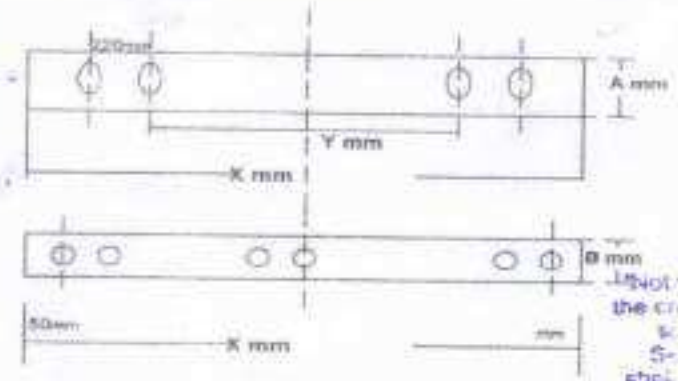
RECPDC

Dynamic Power Solutions Ghaziabad Hapuragar Road Meerut

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

M S TOP CHANNEL, DROPPER & T-OFF CHANNEL

MS TOP CHANNEL



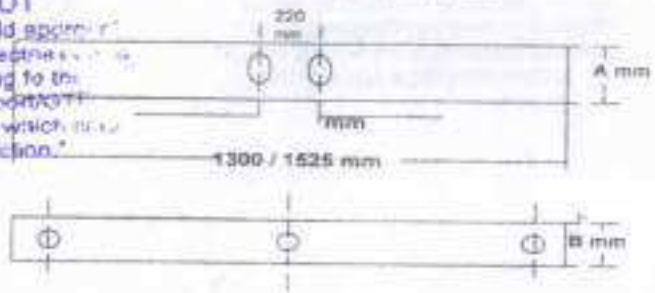
ELEVATION

LENGTH X mm	Y mm	A mm	B mm
2240	1600	100	50
2240	1600	125	65
3200	2240	125	65

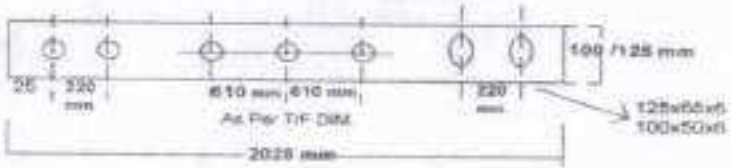
Min Wt
29.6 kg
40.6 kg

APPROVED
Chief Engineer
(IPDS/DDUGJY)
D.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the responsibility of correctness of material according to the Type test reports/GTP shall be with contractor which may be checked during inspection."

MS TEE - OFF CHANNEL



MS DROPPER CHANNEL



NOTES :-

1. All Dimensions are in MM.
2. Drawing Not to Scale

Dynamic Power Solutions Ghaziabad Hapur Road Aligarh

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Min. zinc coating shall be 610gm/m².

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	MS TOP Channel, Dropper & T-Off Channel

PMA IPDS/DDUGJY
Ashish
RECPDCL

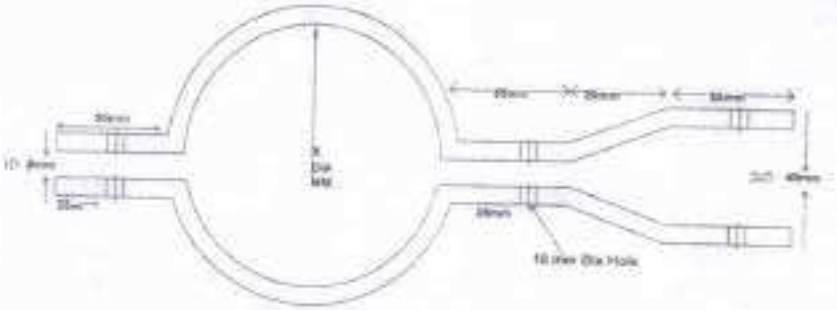
BRACING CLAMP FOR ROUND POLE

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

FOR SP - 88
TOP DIA X = 140mm
BOTTOM DIA X = 165mm

FOR SP - 72
TOP DIA X = 165mm
BOTTOM DIA X = 190mm

FOR SP - 33
TOP DIA X = 115mm
BOTTOM DIA X = 140mm



MS FLAT OF 50X6

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

NOTES

1. All Dimensions are in MM.
2. Drawing Not to Scale

Dynamic Power Solutions Pvt. Ltd. Ghaziabad

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Min. zinc coating shall be 610gm/m².

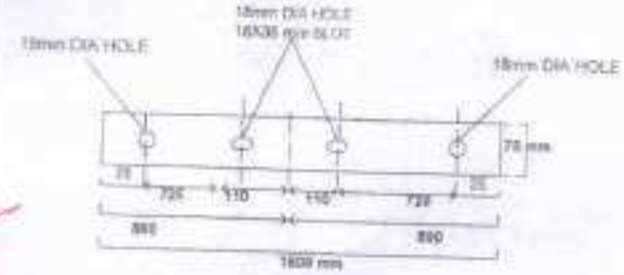
Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	Bracing Clamp for Round Pole

PMA IPDS/DDUGJY
Ashish
RECPDCL

GUARDING ANGEL WITH CLAMP

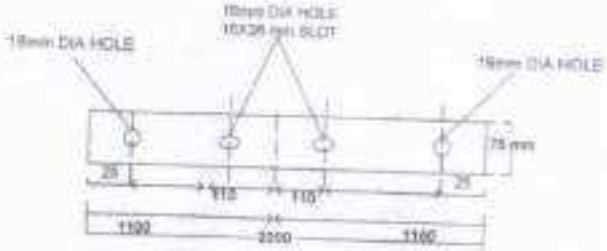
GTP Approved in IPDS/DDUGJY
Spec. No.

GUARDING ANGLE FOR STP 410-SP- 11 MTR
LONG OF ANGLE 75X75X6 mm 1600mm LONG

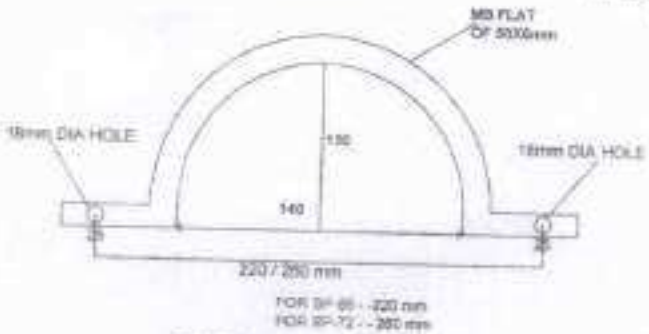


Min. wt. 10.5 kg

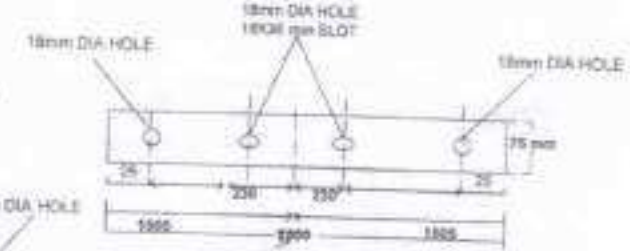
ANGLE 75X75X6 mm 2200 mm LONG



ELEVATION



GUARDING ANGLE CLAMP



ANGLE 75X75X6 mm 3010 mm LONG

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

Dynamic Power Solutions Ghaziabad Manager Reg. No. 12

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

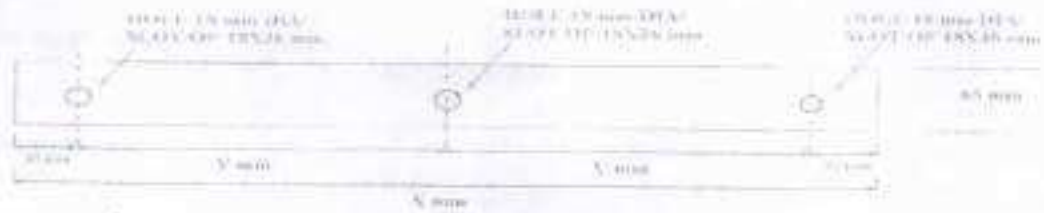
Min. zinc coating shall be 610gm/m².

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	Guarding Angle with Clamp

PMA IPDS/DDUGJY
Ashish
RECPDCL

M S BRACING ANGEL OF SIZE 65X65X6

GTP Approved in IPDS/DDUGJY
Tender Spec. No.



ELEVATION

PLAN

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Sepecification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Min Zinc coating shall be 610gm/m².

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	MS Bracing Angle (Size-65x65x6mm)

PMA IPDS/DDUGJY
Ashish
RECPDCL

Dynamic Power Solutions Ghaziabad Nehrupur Road

STAY CLAMP FOR ROUND POLE

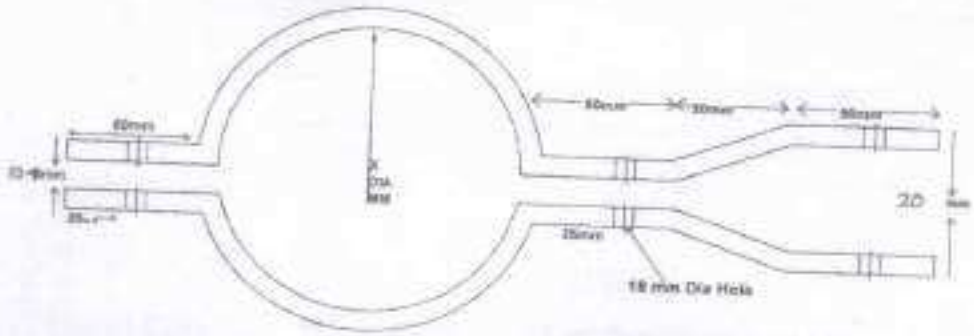
GTP Approved in IPDS/DDUGJY
Tender Spec. No.

FOR SP - 55
TOP DIA X = 140mm

FOR SP - 72
TOP DIA X = 165mm

FOR SP - 33
TOP DIA X = 115mm

APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."



Ms Flat OF
65×8

NOTES :-

1. All Dimensions are in MM
2. Drawing Not to Scale

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Min. Zinc coating shall be 610gm/m².

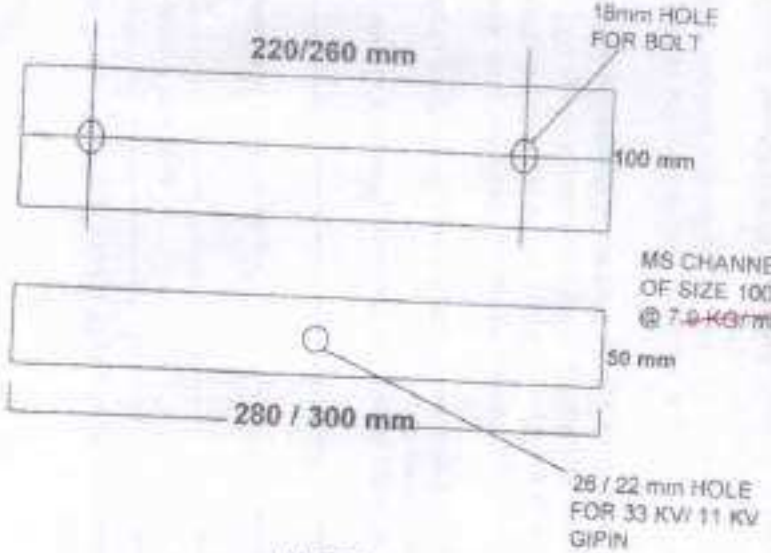
Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	Stay Clamp for Round Pole

Dynamic Power Solutions Ghaziabad Mohanpur Road Nandgram

PMA IPDS/DDUGJY
Ashish
RECPDCL

GTP Approved in IPDS/DDUGJY
Tender Spec. No.

TOP HAMPER FOR 11/33 KV LINE



APPROVED
Chief Engineer
(IPDS/DDUGJY)
P.V.V.N.L., MEERUT
"Not withstanding the aforesaid approval the entire responsibility of correctness and supply of material according to the Specification/Type test report/GTP shall be that of the contractor which is to be checked during inspection."

NOTES :-

1. All Dimensions are in MM.
2. Drawing Not to Scale

Dynamic Power Solutions Ghaziabad Meerut Road North

Notes: -
1. All Dimensions are in MM.
2. Drawing not to SCALE.
3. All MS Items shall be HOT Deep Galvanized.

Min. zinc coating shall be 610gm/m².

Contractor Name	M/s. Omveer Singh, Bulandshahr
Customer / Client	Paschimanchal Vidyut Vitran Nigam Ltd.
Project Name	IPDS – Saharanpur Project
Supplier Name: -	Dynamic Power Solutions, Ghaziabad
Title: -	Top Hamper for 11/33KV Line

PMA IPDS/DDUGJY
Ashish
RECPDCL

दूरभाष नं०
कार्यालय (Off.) : 0121-2667923
निवास (Res.) :
मोबाइल (Mob.) : 09412749173
फैक्स (Fax) : 0121-2667923
ई-मेल (E-mail) : seworksmrt@gmail.com

कार्यालय
Office of the
अधीक्षण अभियन्ता
Superintending Engineer
विद्युत निर्माण एवं कार्य मण्डल-प्रथम
Electricity Construction & Works Circle-I,
पश्चिमांचल विद्युत वितरण निगम लि०
Purchimanchal Vidyut Vitran Nigam Ltd.
विक्टोरिया पार्क, मेरठ
Victoria Park, Meerut-250 003

Dated : 29-12-2017

No. : 2050 / E.C.W.C.-I/MRT

Sub:– *General arrangement laying of cables for Saharanpur under IPDS Scheme.*

M/s. Tata Projects Ltd.
Underground Tower, B-Green Bowlword,
Plot No. B-9/A, Sector-62,
Noida – 201307

Kindly refer to your letter no. TPL/Noida/PVVNL/IPDS/377, dated 27.12.2017 on above said subject.

In this regard inform to you the drawing, which was sent by you through above letter, was approved by P.M.A., RECPDCL and according to same is being sent to you for kind information and necessary action.

Encl. As above.

(Ravindra Gupta)
Superintending Engineer

No. : _____ / E.C.W.C.-I/MRT **Dated : _____ 2017**

Copy forwarded to the following for information and necessary action :–

1. Chief Engineer (IPDS/DDUGJY), P.V.V.N.L., Meerut
2. Executive Engineer, Electricity Construction & Works Division, Saharanpur.
3. Sh. Ravindra Kumar, Project Manager, R.E.C. P.D.C.L., Meerut

(Ravindra Gupta)
Superintending Engineer

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GTP Approved in IPDS/DDUGJY

Tender Spec No PVVNL-MT/IPDS/335/15-16

LAYING UNDER GROUND DOUBLE CABLE

LAYING UNDER GROUND SINGLE CABLE

PMA IPDS/DDUGJY

Ashish

REC/DCL

Sr. No.	Description	DOUBLE CABLE	SINGLE CABLE
1	Stone Slab Per Meter 450x600x50 mm	1.67	1.67
2	No. of Brick Per Meter	~~4.5x4=18~~ 3.6	4.5x4=18

NOTE:-

1. All the Dimensions are in mm Unless otherwise specified
2. Bending Radius for Turning of Cable Laying will be 700 (is the Dia of cable)
3. For Road/Nala/River Crossing 6" HDD pipe Would be used in Cable Laying

DRA. No.	[illegible]
OWNER:-	PARESHMANCHAL VIDYUT VITRAN NIGAM LIMITED (PVVNL)
CONTRACTOR	TATA PROJECTS LIMITED [illegible]
PROJECT	IPDS - Sakaranpur Project
DESCRIPTION	LAYING OF UNDERGROUND CABLE FOR 11 KV LINE (ACSR SQ. M.S. CABLE)
SCALE: ATS	SHEET NO. 1 OF 1	DRAWING No. [illegible]

SANDEEP KR.	SANDEEP KR.	R. S. Pal
DRAWN BY.	CHECKED BY.	APPROVED BY

Release for approval

Signature

Scanned by CamScanner