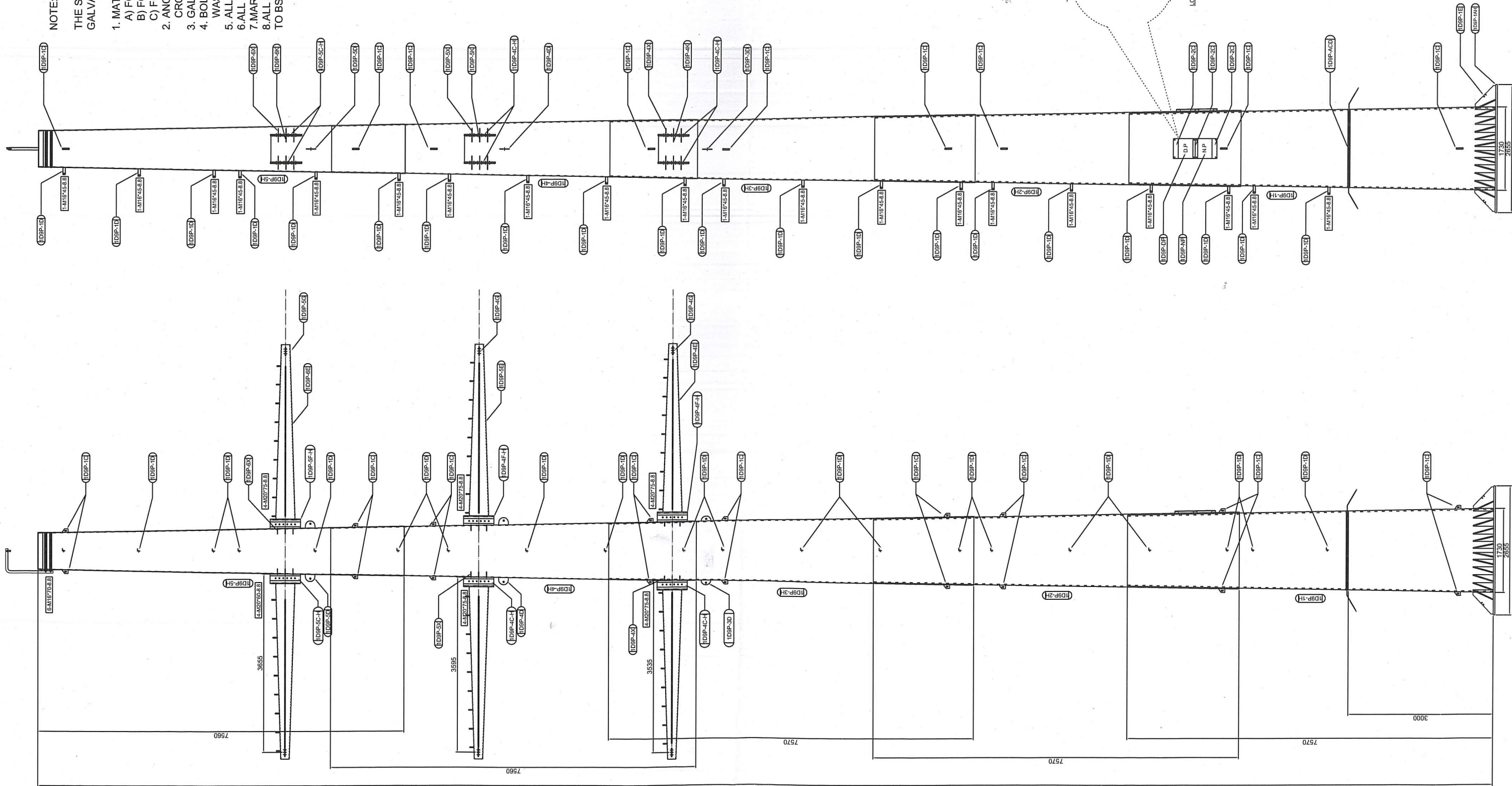
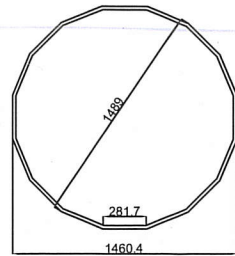


TECHNICAL AND ECONOMICAL CONDITIONS FOR POLE DESIGN

POLE TYPE	DEVIATION ANGLE	WIND SPAN (m)	WEIGHT SPAN (m) (max/min)
1D9P(16 sided)	90°-60°	165	300/0



CLIENT :	 POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)				
CONTRACTOR :	JOINT VENTURE OF ZTT & SINOTEC				
MANUFACTURER :	 CONFIDENCE™ Steel Limited				
TITLE:	DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS				
DRAWN	CHECKED	APPROVED	POLE TYPE:	SCALE	
M.M.R	M.R.C		1D9P	N.T.S	
Drawing Name: 1D9P Erection Drawing					
DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P		SHT. NO. 1/13	REV : Δ

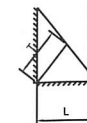


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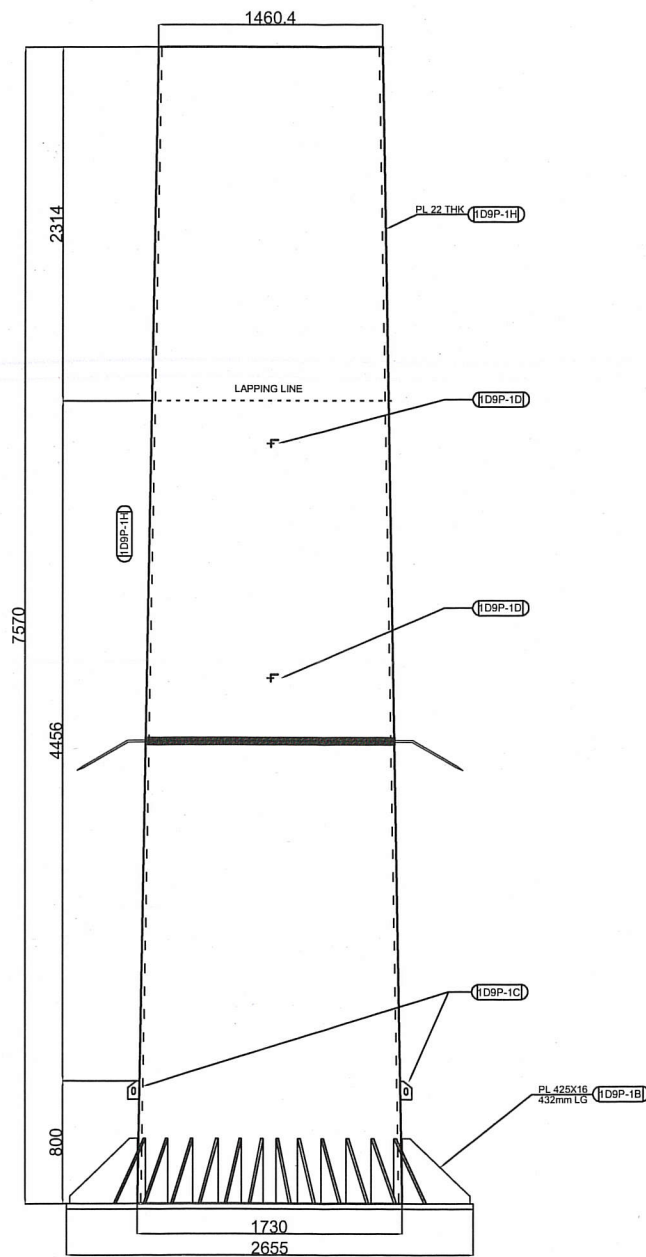
POWER GRID COMPANY OF BANGLADESH
APPROVED
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NOTE FOR WELDING:

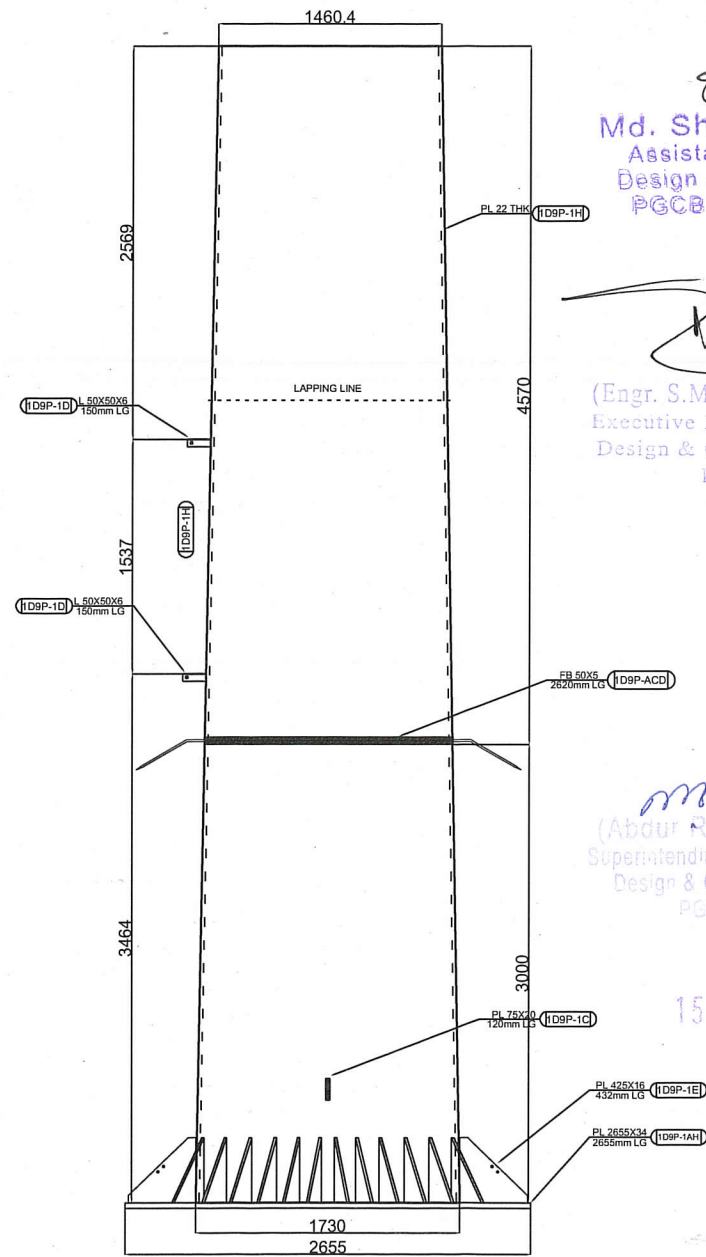
Length of Weld leg, L = 6mm
Length of Weld Throat, T = 4.24mm
Welding strength, $F_u = 540 \text{ MPa}$



BILL OF MATERIAL										
Sl/ No	Mark no	Qty/Pole	Grade	Size	Pole Size			Wt/pc	Total Wt. (kg)	Remarks
					Length	Top Dia	Bottom Dia			
1	1D9P-1H	1	S355JR	PL 22 THK	7570	1460.4	1730	7485.82	7485.82	
2	1D9P-1AH	1	S355JR	PL2655X34 THK	2655			1881.38	1881.38	
3	1D9P-1B	30	S275JR	PL425X16 THK	432			23.06	691.80	
4	1D9P-1E	2	S275JR	PL425X16 THK	432			23.06	46.12	
5	1D9P-1C	2	S275JR	PL75X20 THK	120			1.41	2.83	
6	1D9P-1D	2	S275JR	L 50X50X6	150			0.68	1.35	
Total=								10109.31	kg	
TOTAL WEIGHT (INCLUDING 3.5% GALV)=								10463.13	kg	



TRANSVERSE FACE



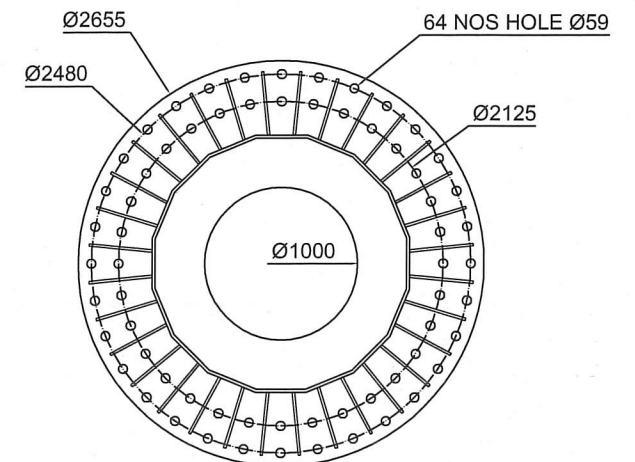
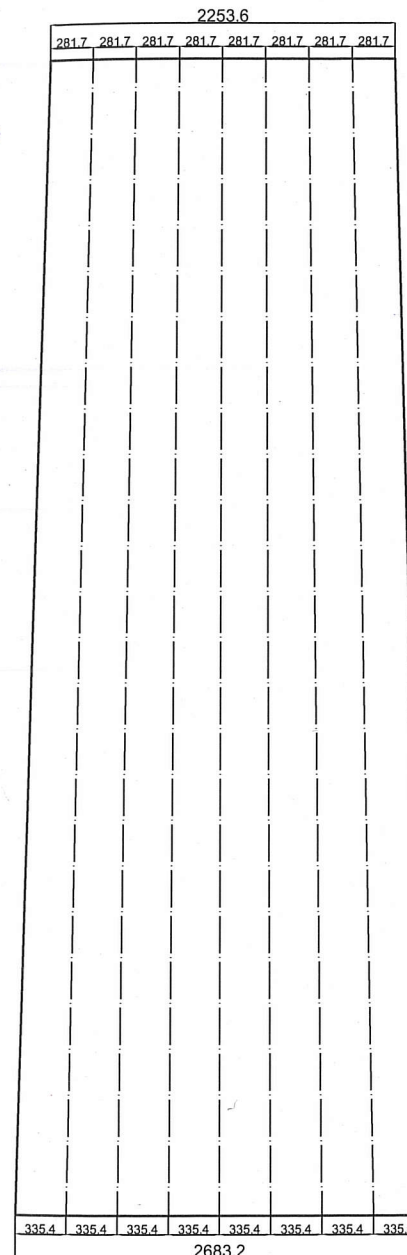
LONGITUDINAL FACE

Md. Shueb Hasan
Assistant Engineer
Design & QC (TLD-1)
PGCL Ltd. Dhaka.

(Engr. S.M. Zafrul Hasan)
Executive Engineer (TL-1)
Design & Quality Control
PGCL

(Abdur Rashid Khan)
Superintending Engineer (TLD)
Design & Quality Control
PGCL Ltd

15 FEB 2017



BASE PLATE (PL Ø2655X34H THK) (1D9P-1AH)
Outer dia=2655mm, Inner dia=1000mm
QTY : 1 PCS (GRADE-S355JR)

NOTE:

THE STANDARDS FOR MATERIAL, FABRICATION, WORKMANSHIP, GALVANIZING, WELDING, INSPECTION, ETC.

- MATERIAL SPECIFICATION:
 - FOR POLE, MATERIAL GRADE IS S355JR.
 - FOR BASE PLATE, MATERIAL GRADE IS S355JR.
 - FOR CROSS ARM MATERIAL GRADE IS S275JR.
- ANCHOR BOLT IS 5.6 GRADE;
CROSS ARM CONNECTING BOLT GRADE 8.8.
- GALVANIZING AS PER BSEN 1461:2009.
- BOLTS AS PER ISO 898-1:2009; NUTS AS PER ISO 4034;
WASHER AS PER DIN127.
- ALL DIMENSION ARE IN MM.
- ALL MATERIALS ARE MILD STEEL IF NOT STATED OTHERWISE.
- MARK NUMBER WITH "H" ALPHABET INDICATES HIGH TENSILE STEEL.
- ALL STRUCTURAL WELDING SHOULD BE CARRIED OUT ACCORDING TO BSEN 61011-1 & 2.

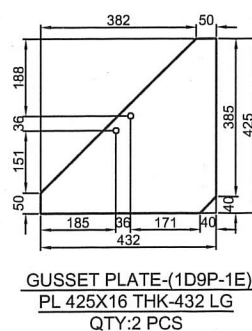
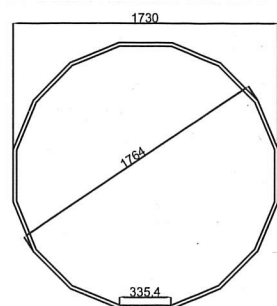
CLIENT : **POWER GRID COMPANY OF BANGLADESH LIMITED (PGCL)**

CONTRACTOR : **JOINT VENTURE OF ZTT & SINOTEC**

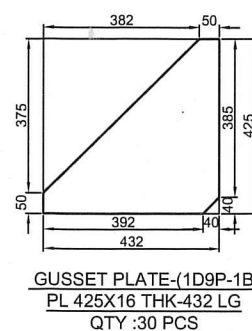
MANUFACTURER : **CONFIDENCE™ Steel Limited**

TITLE: **DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS**

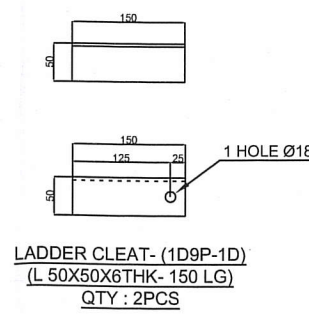
DRAWN	CHECKED	APPROVED	POLE TYPE:	SCALE
M.S.S	M.R.C		1D9P	N.T.S
Drawing Name: 1D9P Erection Drawing				
DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 2/13	REV : A



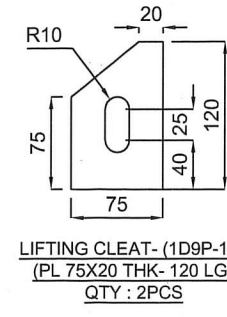
GUSSET PLATE (1D9P-1E)
PL 425X16 THK-432 LG
QTY: 2 PCS



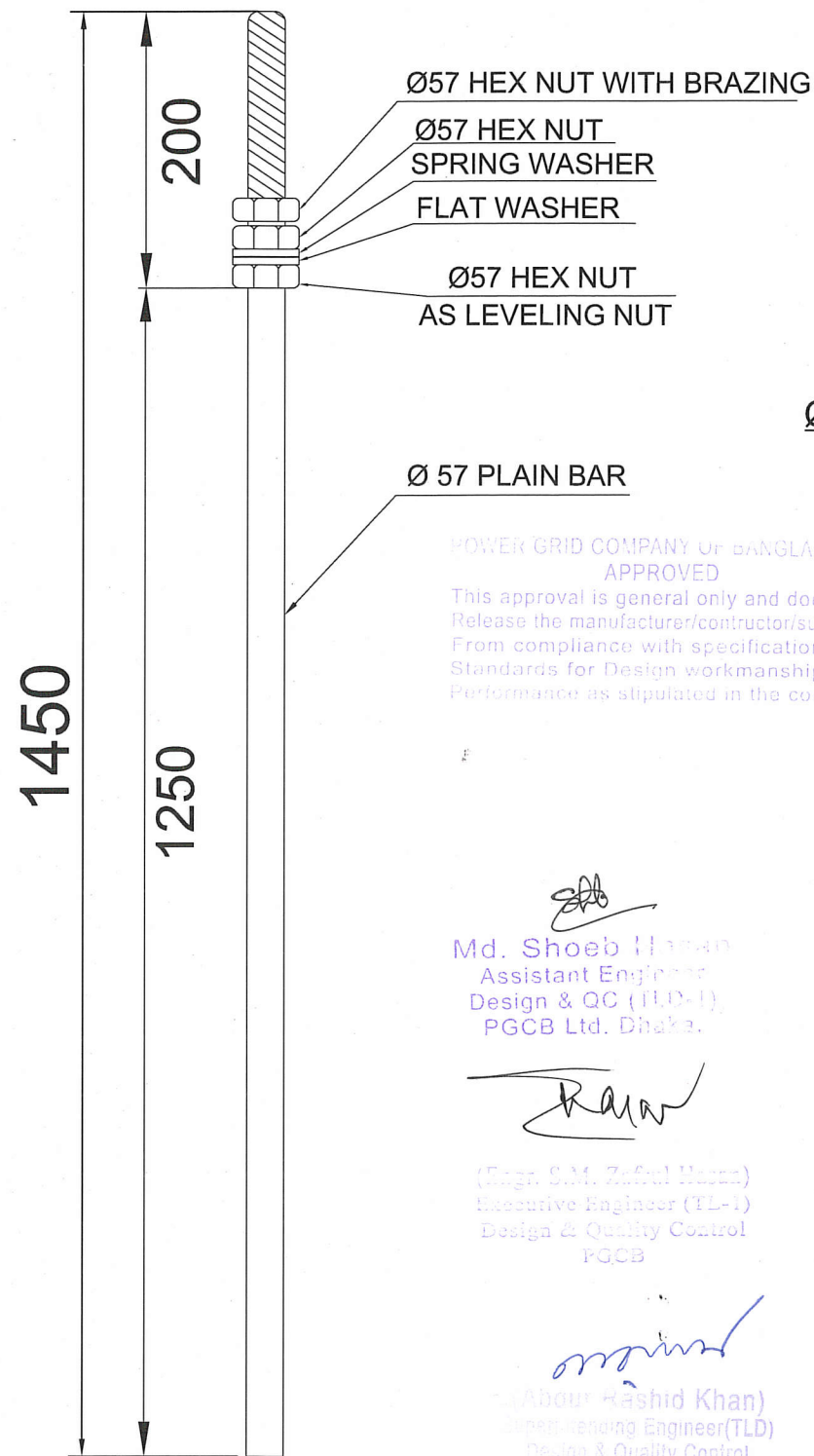
GUSSET PLATE (1D9P-1B)
PL 425X16 THK-432 LG
QTY: 30 PCS



LADDER CLEAT (1D9P-1D)
(L 50X50X6 THK- 150 LG)
QTY : 2PCS

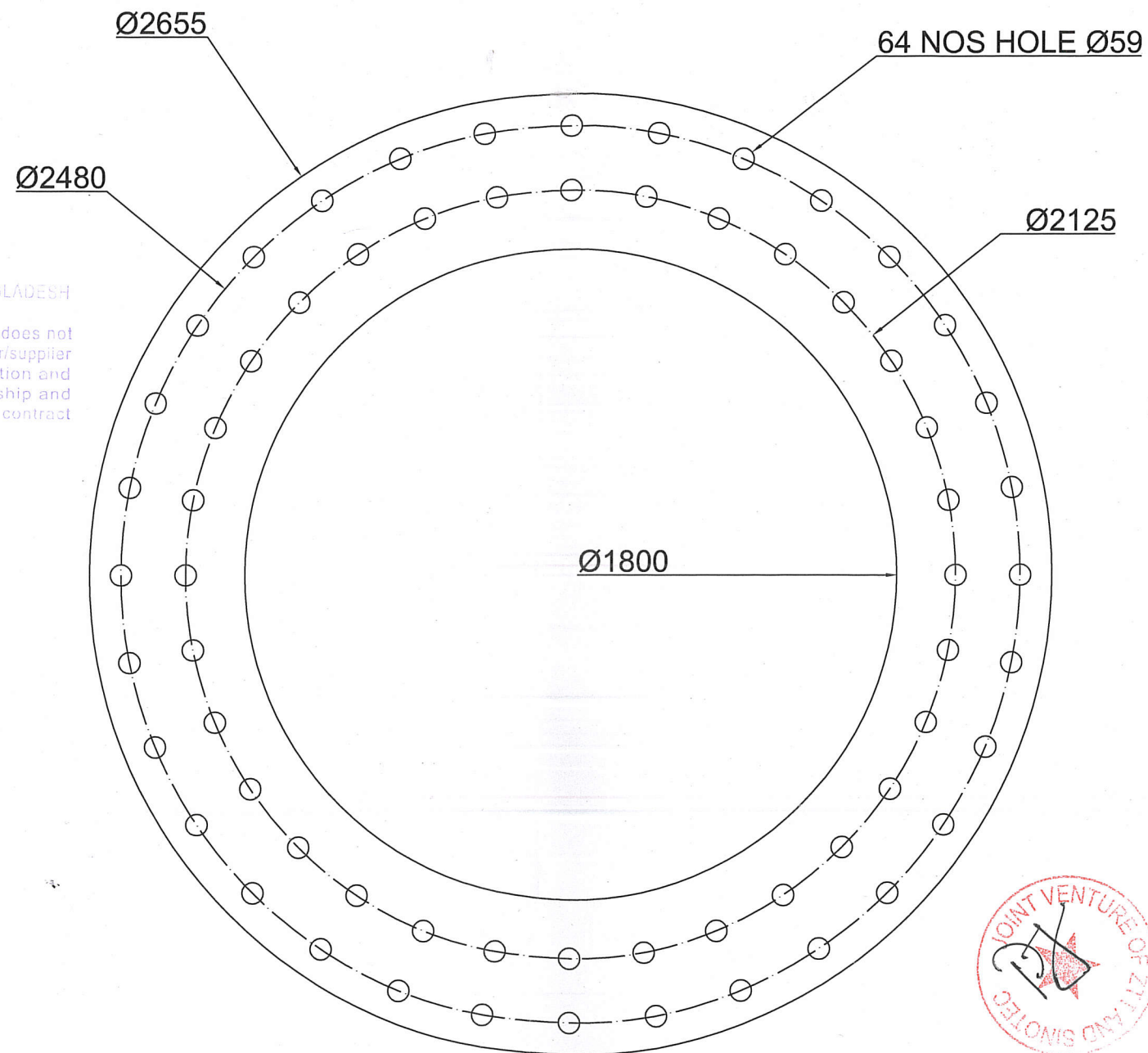


LIFTING CLEAT (1D9P-1C)
(PL 75X20 THK- 120 LG)
QTY : 2PCS



DETAIL OF ANCHOR BOLT
QTY= 64 PCS, Ø=57mm
GRADE-5.6

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DUMMY BASE PLATE (1D9P-DBP)
(PL Ø2655X10H THK)
Outer dia=2655mm, Inner dia=1800mm

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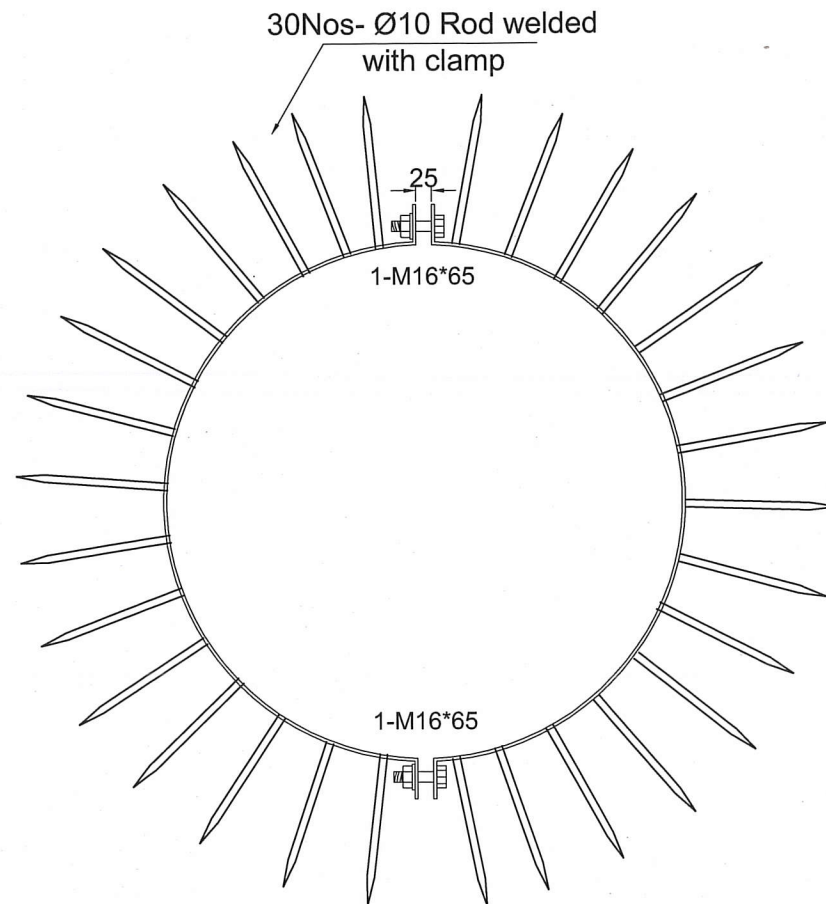
BILL OF MATERIAL								
SI No	Mark No	Qty/Pole	Grade	Size	Length (mm)	Wt/pcs (KG)	Total Weight (KG)	Remarks
1	1D9P-DBP	1	S275JR	PL2655X10 THK	2655	553.35	553.35	
2	ANCHOR BOLT	64	5.6	Ø57	1450	28.84	1845.79	
	NUT	64				1.40	89.28	
	LEVELING NUT	64				1.40	89.28	
	NUT WITH BRAZING	64				1.40	89.28	
	SPW	64				0.48	30.72	
	PLW	64				0.44	28.29	
						Total=	2725.99	Kg
TOTAL WEIGHT (INCLUDING 3.5% GALV)=								2821.40

NOTE:

THE STANDARDS FOR MATERIAL, FABRICATION, WORKMANSHIP, GALVANIZING, WELDING, INSPECTION, ETC.

- MATERIAL SPECIFICATION:
 - FOR POLE, MATERIAL GRADE IS S355JR.
 - FOR BASE PLATE, MATERIAL GRADE IS S355JR.
 - FOR CROSS ARM MATERIAL GRADE IS S275JR.
- ANCHOR BOLT IS 5.6 GRADE; CROSS ARM CONNECTING BOLT GRADE 8.8.
- GALVANIZING AS PER BSEN 1461:2009.
- BOLTS AS PER ISO 898-1:2009; NUTS AS PER ISO 4034; WASHER AS PER DIN127.
- ALL DIMENSION ARE IN MM.
- ALL MATERIALS ARE MILD STEEL IF NOT STATED OTHERWISE.
- MARK NUMBER WITH "H" ALPHABET INDICATES HIGH TENSILE STEEL.
- ALL STRUCTURAL WELDING SHOULD BE CARRIED OUT ACCORDING TO BSEN 61011-1 & 2.

CLIENT :	 POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)			
CONTRACTOR :	JOINT VENTURE OF ZTT & SINOTEC			
MANUFACTURER :				
TITLE:	DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS			
DRAWN	CHECKED	APPROVED	POLE TYPE:	SCALE
M.S.S	M.R.C		1D9P	N.T.S
Drawing Name: 1D9P Erection Drawing				
DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 3/13	REV : 



CROSS SECTION

1D9P-ACD

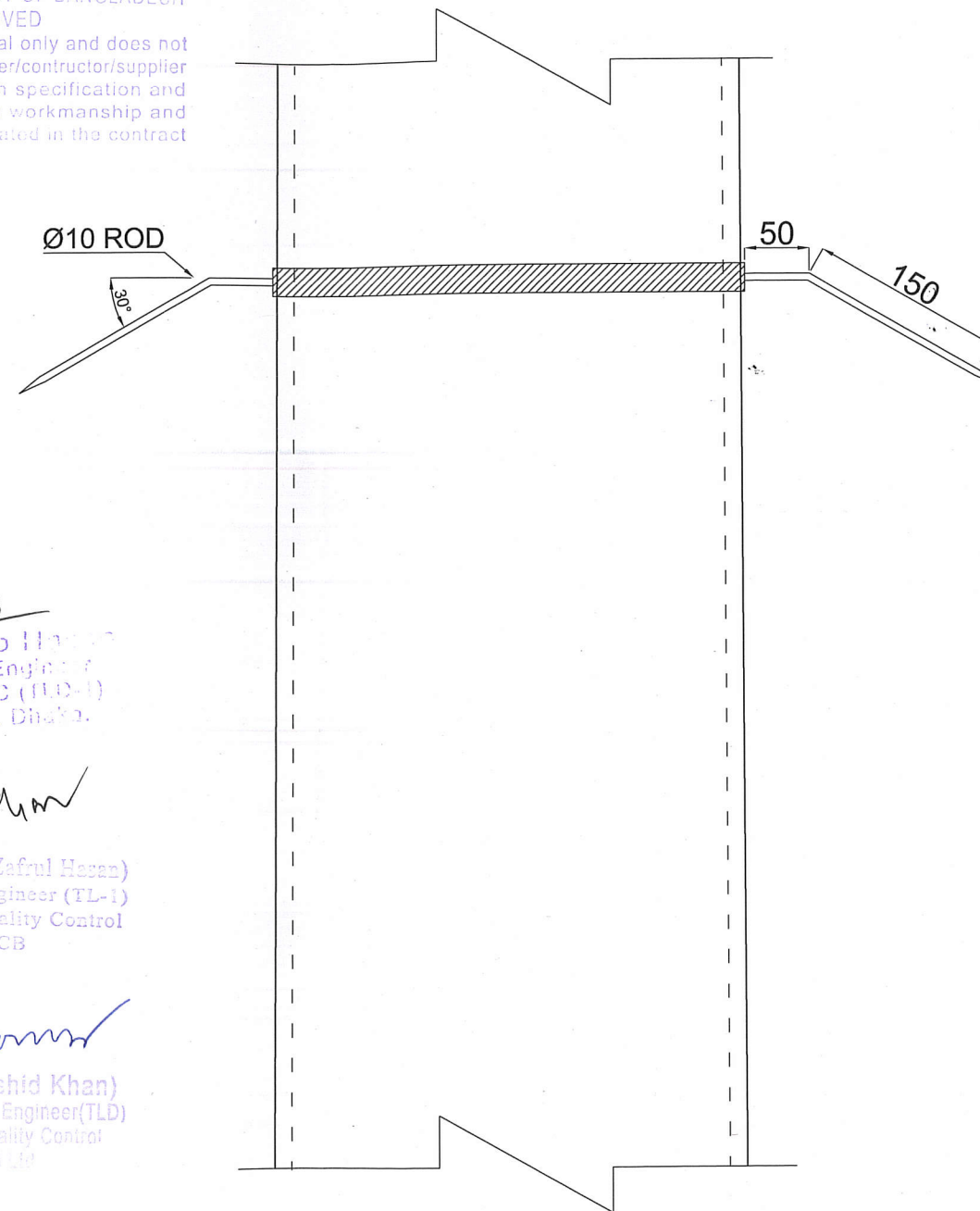
POWER GRID COMPANY OF BANGLADESH
APPROVED
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From compliance with specification and
Standards for Design workmanship and
Performance as stipulated in the contract

Md. Shueb Hossain
Assistant Engineer
Design & QC (TLD-1)
PGCB Ltd. Dhaka.

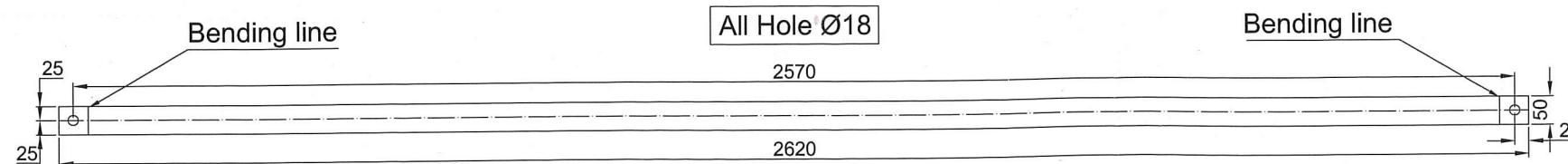
(Engr. S.M. Zafrul Hasan)
Executive Engineer (TL-1)
Design & Quality Control
PGCB

(Abdur Rashid Khan)
Superintending Engineer (TLD)
Design & Quality Control
PGCB Ltd.

15 FEB 2017



ELEVATION



**FLAT BAR DETAIL (FB 50X5 THK - 2620 LG)
(1D9P-C1)**

BILL OF MATERIAL							
Sl/No	Mark no	Qty/Pole	Grade	Size	Length	Wt/pc	Total Wt. (kg)
1	1D9P-C1	2	S275JR	FB50X5 THK	2620	5.14	10.28
2	SPIKE ROD	30	40	Ø10	200	0.12	3.67
3	BOLT	2	8.8	M16	65	0.17	0.35
Total=						14.30	kg
TOTAL WEIGHT (INCLUDING 3.5%GALV)=						14.80	kg

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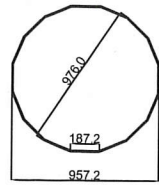
NOTE:

THE STANDARDS FOR MATERIAL, FABRICATION, WORKMANSHIP,
GALVANIZING, WELDING, INSPECTION, ETC.

- MATERIAL SPECIFICATION:
 - FOR POLE, MATERIAL GRADE IS S355JR.
 - FOR BASE PLATE, MATERIAL GRADE IS S355JR.
 - FOR CROSS ARM MATERIAL GRADE IS S275JR.
- ANCHOR BOLT IS 5.6 GRADE;
CROSS ARM CONNECTING BOLT GRADE 8.8.
- GALVANIZING AS PER BSEN 1461:2009.
- BOLTS AS PER ISO 898-1:2009; NUTS AS PER ISO 4034;
WASHER AS PER DIN127.
- ALL DIMENSION ARE IN MM.
- ALL MATERIALS ARE MILD STEEL IF NOT STATED OTHERWISE.
- MARK NUMBER WITH "H" ALPHABET INDICATES HIGH TENSILE STEEL.
- ALL STRUCTURAL WELDING SHOULD BE CARRIED OUT ACCORDING TO BSEN 61011-1 & 2.

CLIENT :		POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)		
CONTRACTOR :		JOINT VENTURE OF ZTT & SINOTEC		
MANUFACTURER :		CONFIDENCE TM Steel Limited		
TITLE:		DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS		
DRAWN	CHECKED	APPROVED	POLE TYPE:	SCALE
M.S.S	M.R.C		1D9P	N.T.S
Drawing Name: 1D9P Erection Drawing				
DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 4/13	REV : A

DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 5/13	REV :
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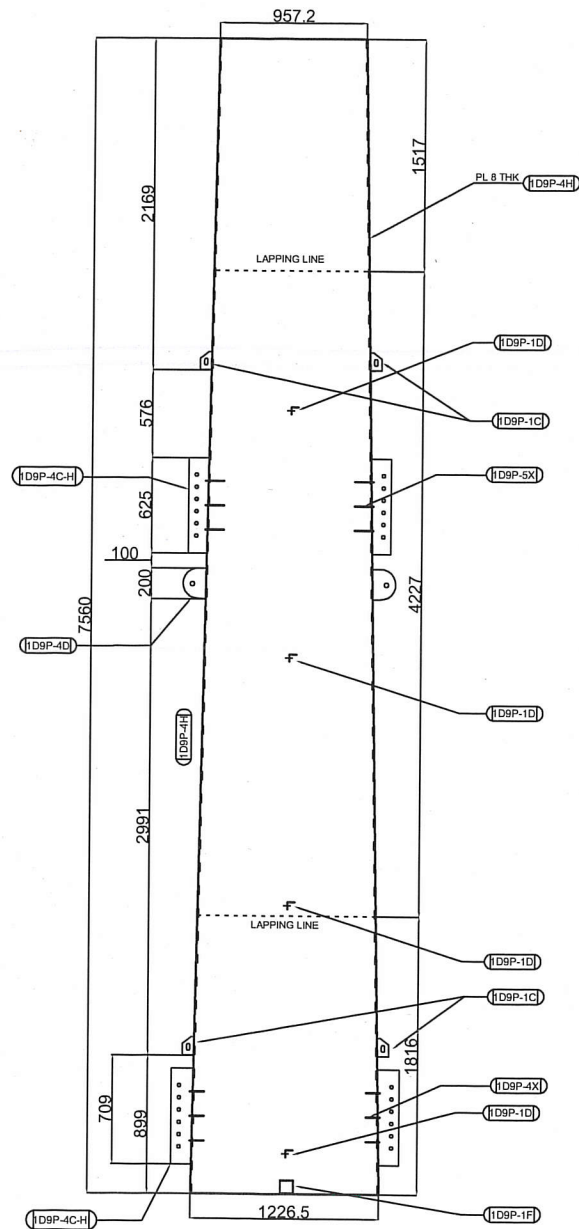
POWER GRID COMPANY OF BANGLADESH
APPROVED
This approval is general only and does not
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From compliance with specification and
Standards for Design workmanship and
Performance as stipulated in the contract

Md. Shueb Hasan
Assistant Engineer
Design & QC (TLD-1)
PGCB Ltd. Dhaka.

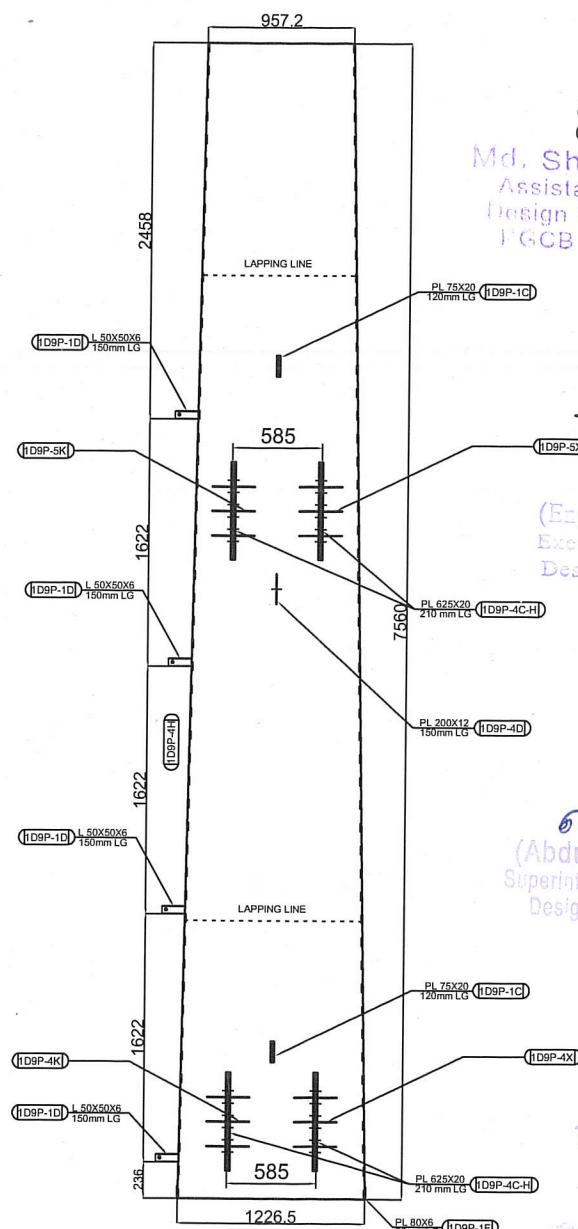
(Engr. S.M. Zafrul Hasan)
Executive Engineer (TLD-1)
Design & Quality Control
PGCB

(Abdur Rashid Khan)
Superintending Engineer (TLD)
Design & Quality Control
PGCB Ltd

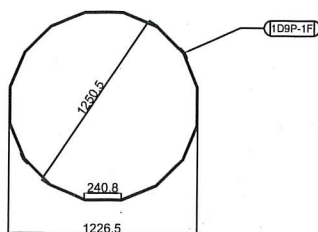
15 FEB 2017



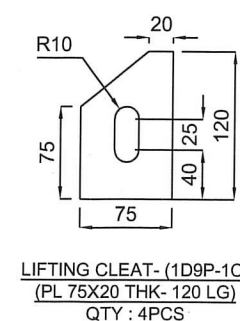
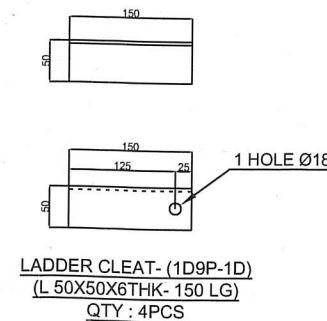
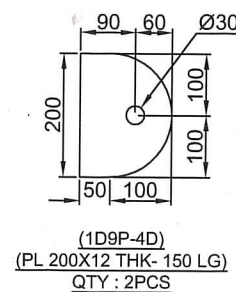
TRANSVERSE FACE



LONGITUDINAL FACE

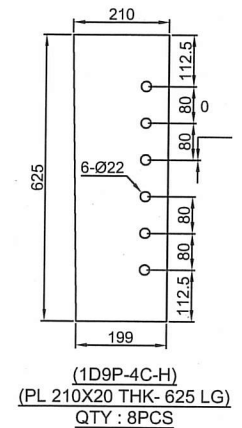
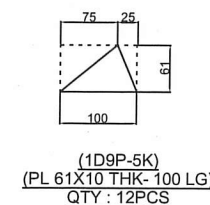
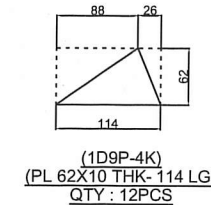
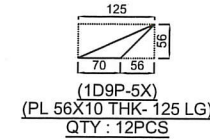
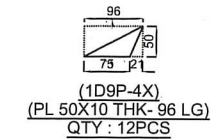


NOTE FOR WELDING:
Length of Weld leg, L = 6mm
Length of Weld Throat, T = 4.24mm
Welding strength, Fu = 540 MPa



BILL OF MATERIAL

Sl/No	Mark no	Qty/Pole	GRADE	Size	Pole Size			Wt/pc	Total Wt. (kg)	Remarks
					Length	Top Dia	Bottom Dia			
1	1D9P-4H	1	S355JR	PL 8 THK	7560	957.2	1226.5	1828.81	1828.81	
2	1D9P-1C	4	S275JR	PL 75X20 THK	120			1.41	5.65	
3	1D9P-1D	4	S275JR	L 50X50X6	150			0.68	2.70	
4	1D9P-1F	2	S275JR	PL 80X6 THK	80			0.30	0.60	
5	1D9P-4C-H	8	S355JR	PL 625X20 THK	210			20.61	164.85	
6	1D9P-4X	12	S275JR	PL 56X10 THK	96			0.38	4.52	
7	1D9P-5X	12	S275JR	PL 56X10 THK	125			0.55	6.59	
8	1D9P-4K	12	S275JR	PL 62X10 THK	114			0.55	6.66	
9	1D9P-5K	12	S275JR	PL 61X10 THK	100			0.48	5.75	
10	1D9P-4D	2	S275JR	PL 200X12 THK	150			2.83	5.65	
Total=									2031.78	kg
TOTAL WEIGHT (INCLUDING 3.5% GALV)=									2102.89	kg

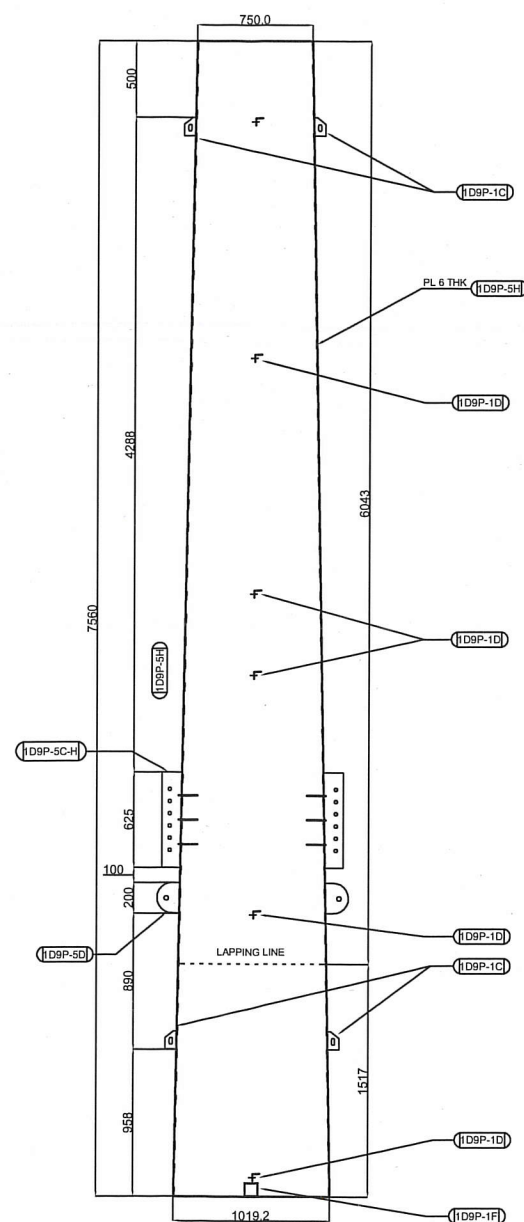


NOTE:

THE STANDARDS FOR MATERIAL, FABRICATION, WORKMANSHIP, GALVANIZING, WELDING, INSPECTION, ETC.

- MATERIAL SPECIFICATION:
A) FOR POLE, MATERIAL GRADE IS S355JR.
B) FOR BASE PLATE, MATERIAL GRADE IS S355JR.
C) FOR CROSS ARM MATERIAL GRADE IS S275JR.
- ANCHOR BOLT IS 5.6 GRADE;
CROSS ARM CONNECTING BOLT GRADE 8.8.
- GALVANIZING AS PER BSEN 1461:2009.
- BOLTS AS PER ISO 898-1:2009; NUTS AS PER ISO 4034;
WASHER AS PER DIN 127.
- ALL DIMENSION ARE IN MM.
- ALL MATERIALS ARE MILD STEEL IF NOT STATED OTHERWISE.
- MARK NUMBER WITH "H" ALPHABET INDICATES HIGH TENSILE STEEL.
- ALL STRUCTURAL WELDING SHOULD BE CARRIED OUT ACCORDING TO BSEN 61011-1 & 2.

CLIENT :		POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)		
CONTRACTOR :		JOINT VENTURE OF ZTT & SINOTEC		
MANUFACTURER :				
TITLE:		DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS		
DRAWN	CHECKED	APPROVED	POLE TYPE:	SCALE
M.S.S	M.R.C		1D9P	N.T.S
Drawing Name: 1D9P Erection Drawing				
DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 7/13	REV : 



A diagram showing a rectangular area with a horizontal dimension of 150 and a vertical dimension of 50.

Technical drawing of a mechanical part showing dimensions and a hole specification. The drawing includes a top view and a side view. The top view shows a rectangular part with a width of 150 and a height of 50. A horizontal line is drawn at a distance of 125 from the left edge, and a vertical line is drawn at a distance of 25 from the right edge. A hole is located at the intersection of these lines, with a diameter of 18. The side view shows the profile of the part, with a dashed line indicating the hidden edge of the hole.

1 HOLE $\varnothing 18$

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Technical drawing of a rectangular plate with the following specifications:

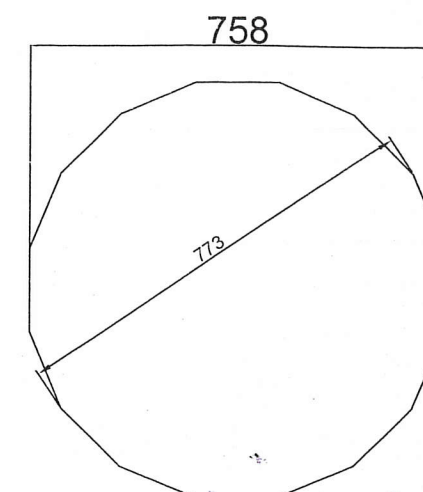
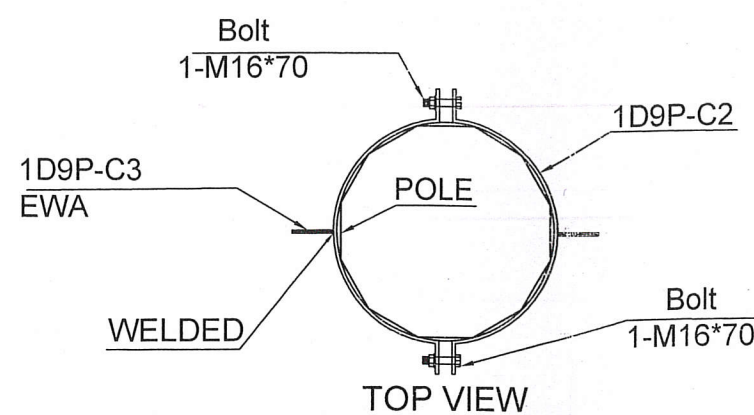
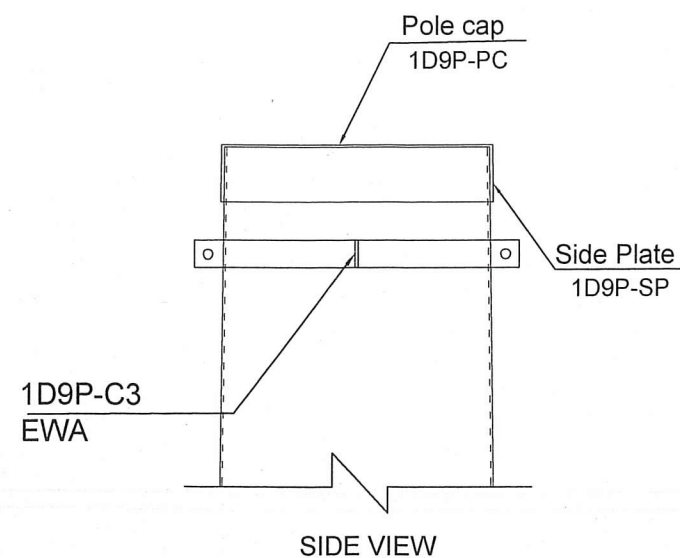
- Overall width: 210
- Overall height: 625
- Inner width (between hole centers): 199
- Hole diameter: 6-Ø22
- Hole spacing (from top edge): 112.5, 80, 80, 80, 80, 112.5
- Quantity: QTY : 4PCS
- Part Number: (1D9P-5C-H)
- Plate Specification: (PL 210X20 THK- 625 LG)

DATE	14.02.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT. NO. 8/13	REV :
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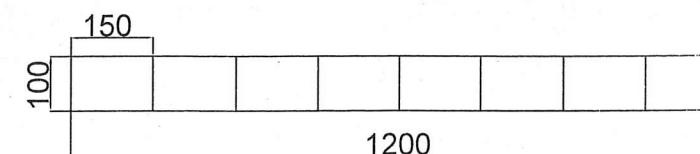
BILL OF MATERIAL									
Sl/No	Mark no	Qty/Pole	GRADE	Size	Length	Wt/pc	Total Wt. (kg)	Remarks	
1	1D9P-PC	1	S275JR	PL758X4 THK	758	18.04	18.04		
2	1D9P-SP	2	S275JR	PL100X4 THK	1200	3.77	7.54		
3	1D9P-C2	2	S275JR	PL60X8 THK	1270	4.79	9.57		
4	1D9P-C3	2	S275JR	PL50X5 THK	75	0.28	0.57		
5	BOLT	2	8.8	M16	70	0.20	0.40		
Total=							36.12	kg	
TOTAL WEIGHT (INCLUDING 3.5% GALV)=							37.38	kg	

POWER GRID COMPANY OF BANGLADESH LTD
APPROVED WITH COMMENT
This approval is general only and does not release the manufacturer/contractor/supplier from compliance with specification and standards for design, Workmanship and performance as stipulated in the contract.

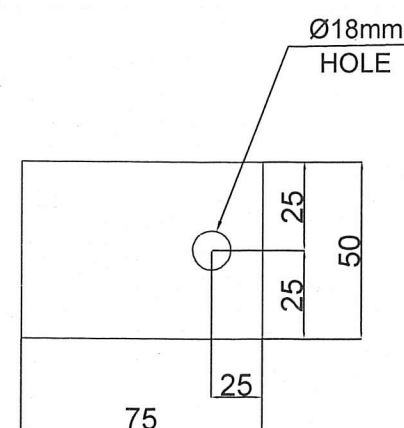
COMMENT: THIS APPROVAL SUPERSEDES EARLIER APPROVAL GIVEN VIDE PGCB LETTER NO. 04/PACB/ SB(TLD), DESIGN/DC/2017/92, DATED: 15.02.2017
Xdh



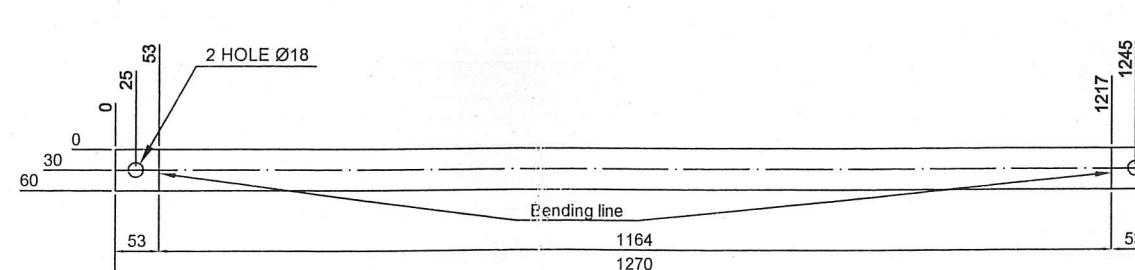
POLE CAP: PL Ø758X4mm=1PCS
1D9P-PC



SIDE PLATE(1D9P-SP)
PL100X4 THK-1200LG
QTY:2PCS



PL 50X5 THK- 75 LG
1D9P-C3



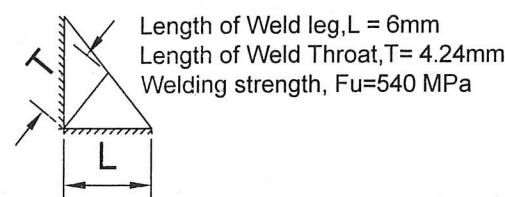
PL 60X8THK-1270 LG
1D9P-C2

NOTE:

THE STANDARDS FOR MATERIAL, FABRICATION, WORKMANSHIP, GALVANIZING, WELDING, INSPECTION, ETC.

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A) FOR POLE, MATERIAL GRADE IS S355JR.
B) FOR BASE PLATE, MATERIAL GRADE IS S355JR.
C) FOR CROSS ARM MATERIAL GRADE IS S275JR.
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CROSS ARM CONNECTING BOLT GRADE 8.8.
- GALVANIZING AS PER BSEN 1461:2009.
- BOLTS AS PER ISO 898-1:2009; NUTS AS PER ISO 4034;
WASHER AS PER DIN127.
- ALL DIMENSION ARE IN MM.
- ALL MATERIALS ARE MILD STEEL IF NOT STATED OTHERWISE.
- MARK NUMBER WITH "H" ALPHABET INDICATES HIGH TENSILE STEEL.
- ALL STRUCTURAL WELDING SHOULD BE CARRIED OUT ACCORDING TO BSEN 61011-1 & 2.

NOTE FOR WELDING:



Md. Shueb Hasan
Sub-Divisional Engineer
Design & Quality Control
PGCB Ltd.

(Engr. Md. Azizul Islam Sarker)
Executive Engineer (TLD)
Design & Quality Control
PGCB

(Engr. S. M. Zafrul Hasan)
Superintending Engineer (TLD)
Design & QC, PGCB, Dhaka.

(Md. Abdur Rahim)
Assistant Engineer
Transmission Line Design
PGCB, Dhaka

31 JAN 2018



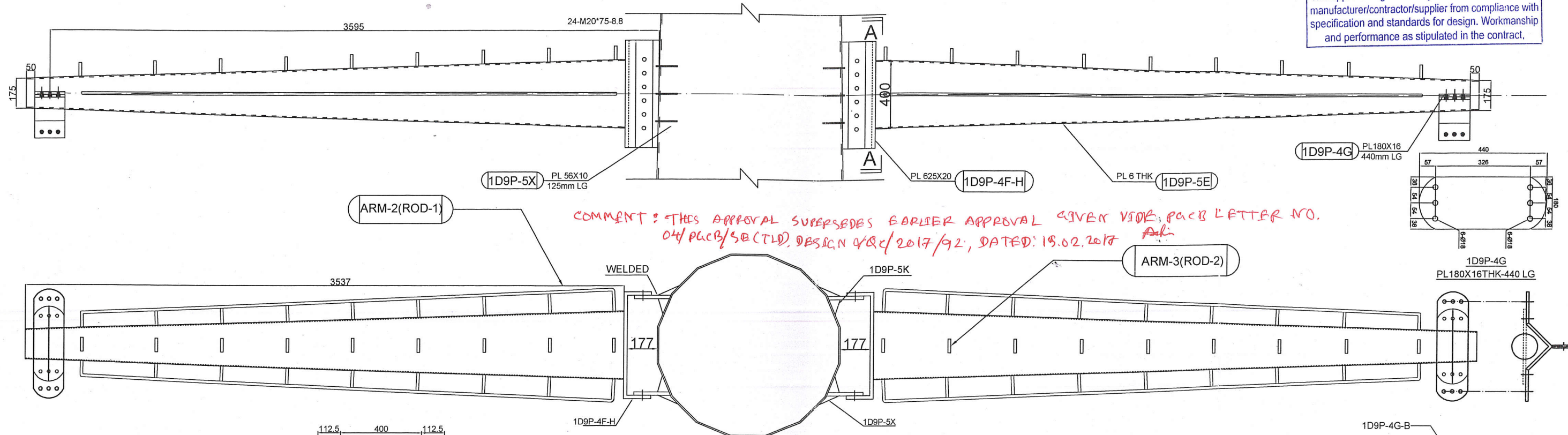
CLIENT :		POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)		
CONTRACTOR :		JOINT VENTURE OF ZTT & SINOTEC		
MANUFACTURER :		CONFIDENCE		
TITLE:		DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS		
DRAWN	CHECKED	APPROVED	POLE TYPE	SCALE
M.S.S	M.R.C		1D9P	N.T.S
DRAWING NAME: 1D9P-EARTH WIRE AND POLE CAP ARRANGEMENT				
DATE	12.12.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D9P	SHT.NO. 9/13	REV : 2

Technical drawing of a ship's hull structure, specifically the cross arm and longitudinal sections. The drawing includes a central cross-section labeled "CROSS ARM-3" and two longitudinal sections labeled "ARM-3(ROD-1)" and "ARM-3(ROD-2)". Various dimensions and material specifications are provided, such as "24-M20*75-8.8", "PL 50X10 96mm LG", "1D9P-4X", "1D9P-4F-H", "1D9P-4E", "1D9P-4G", "1D9P-4K", "1D9P-4G-B", and "1D9P-4G-A". A red stamp from "ZTT AND S" is visible in the bottom right corner.



BILL OF MATERIAL										
Sl/ No	Mark no	Qty/Pole	GRADE	Size	Pole Size			Wt/pc	Total Wt. (kg)	Remarks
					Length	Top Dia	Bottom Dia			
1	1D9P-4E	2	S275JR	PL 6 THK	3477	175	400	212.90	425.79	
2	1D9P-4F-H	2	S355JR	PL625X20 THK	905			88.80	177.61	
3	1D9P-4G	2	S275JR	PL180X16 THK	440			9.95	19.90	
4	1D9P-4G-A	2	S275JR	PL180X16	751			16.98	33.96	
5	1D9P-4G-B	2	S275JR	PL180X16	100			2.26	4.52	
6	ARM-3(ROD-1)	4	S275JR	φ16	3900			6.16	24.64	
7	ARM-3(ROD-2)	18	S275JR	φ16	260			0.41	7.38	
8	BOLT	24	8.8	M20	75			0.37	8.76	
Total=								702.55		kg
TOTAL WEIGHT (INCLUDING 3.5%GALV)=								727.14		kg

POWER GRID COMPANY OF BANGLADESH LTD
APPROVED WITH COMMENT
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3655

24-M20*75-8.8

50

175

400

1D9P-6X PL 53X10 128mm LG

PL 625X20

1D9P-5F-H

PL 6 THK

1D9P-5G PL 180X16 440mm LG

440

57

326

57

1D9P-5G PL 180X16THK-440 LG

ARM-1(ROD-1)

COMMENT: THIS APPROVAL SUPERSEDES EARLIER APPROVAL GIVEN VIDE PCB LETTER NO. 04/PCB/SECTION, DESIGN & C/2017/92, DATED: 15.02.2017

ARM-3(ROD-2)

3598

WELDED

177

177

1D9P-6K

1D9P-5F-H

1D9P-6X

1D9P-5G-B

manufacturer/contractor/supplier from compliance with specification and standards for design. Workmanship and performance as stipulated in the contract.

Technical drawing of a welded plate. The plate has a square shape with a side length of 625. It features a central circular hole with a diameter of $\varnothing 200$. Surrounding this central hole is an octagonal hole. The distance from the center of the central hole to the center of the octagonal hole is 400. The distance from the center of the central hole to the nearest corner of the plate is 112.5. The octagonal hole is defined by a dashed line, and the central circular hole is defined by a solid line. The word "WELDED" is written next to the central hole.

Mr. Md. Azimul Islam Sarkar
Executive Engineer (TLD-L)
Design & Quality Control
PGCB

[illegible]

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TO BSEN 61011-1 & 2.

31 JAN 2018

Diagram of a T-shaped cross-section with dimensions: total width 120, total height 80, stem width 60, and side flange width 30.

ARM-1(ROD-2)
Ø16X260mm=18PCS

Length of Weld leg, $L = 6 \text{ mm}$
Length of Weld Throat, $T = 4.24 \text{ mm}$
Welding strength, $F_u = 540 \text{ MPa}$

ARM-1(ROD-1)
16X3900mm=4PCS

Technical drawing of the PL 625X20 THK- 905 LG plate, showing three views: front, side, and end view.

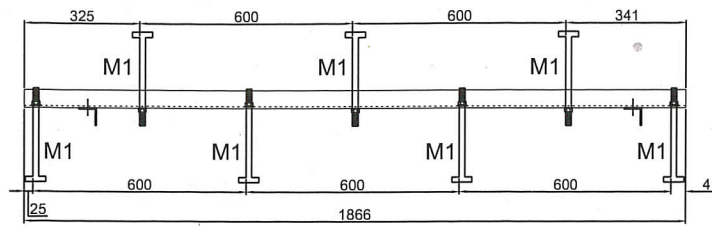
Front View: A square plate with overall dimensions 625 (width) by 625 (height).

Side View: Shows the plate thickness as 20. The distance from the outer edge to the center of the hole is 110.

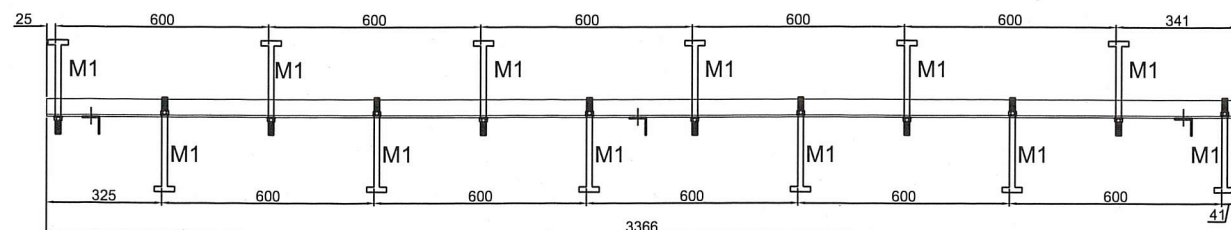
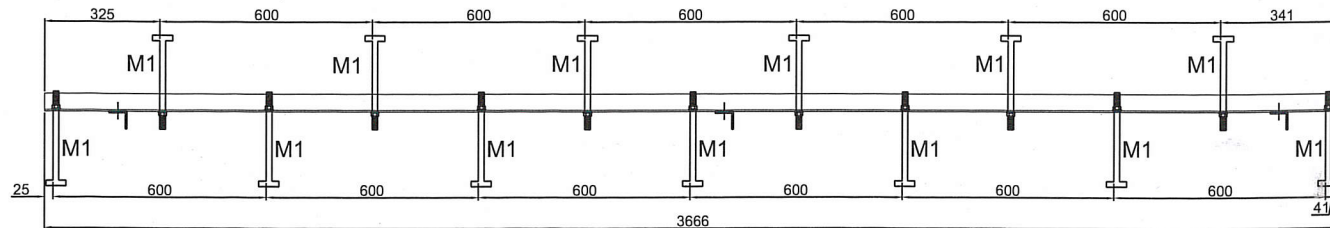
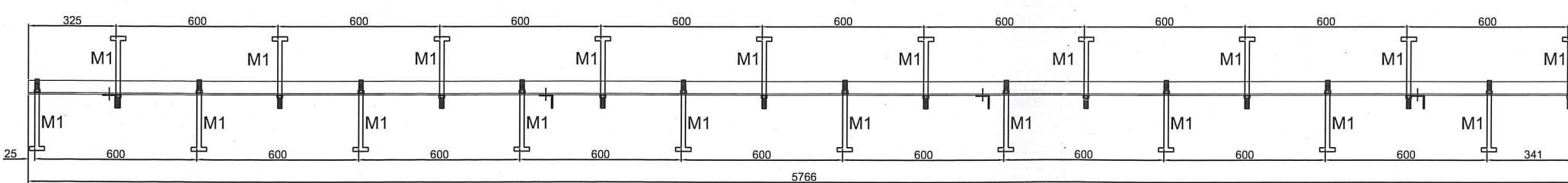
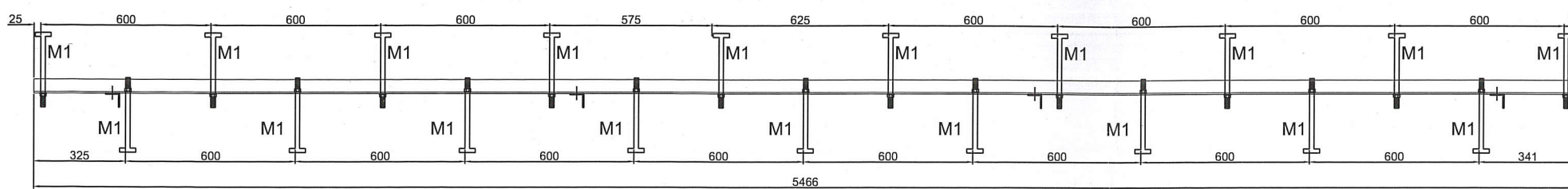
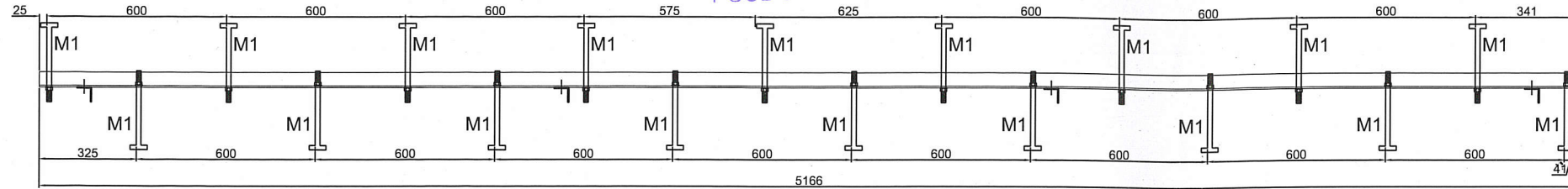
End View: Shows the hole diameter as 160. The distance between the centers of adjacent holes is 80. The total length of the plate is 905.

Dimensions are indicated in millimeters (mm).

CLIENT :		 POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)			
CONTRACTOR :		JOINT VENTURE OF ZTT & SINOTEC			
MANUFACTURER :					
TITLE:		DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS			
DRAWN	CHECKED	APPROVED		POLE TYPE	SCALE
M.S.S	M.R.C			1D9P	N.T.S
DRAWING NAME: DETAIL OF CROSS ARM-1					
DATE	12.12.17	Dwg No: CSL/ZTT-SINOTEC/SD/1D3P		SHT.NO. 12/13	REV : 



(Engr. S.M. Zafrul Hasan)
Executive Engineer (TL-1)
Design & Quality Control
PGCB

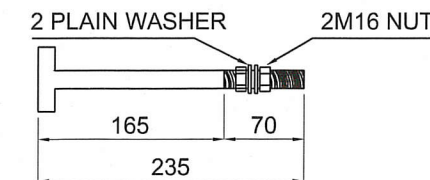


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(POWERGRID), UNDER NO CIRCUMSTANCES THIS DRAWING SHALL BE
USED BY ANYBODY WITHOUT PRIOR PERMISSION FROM POWERGRID IN WRITING.

15 FEB 2017



Step Rod Detail

CLIENT : 		POWER GRID COMPANY OF BANGLADESH LIMITED (PGCB)			
CONTRACTOR : JOINT VENTURE OF ZTT & SINOTEC					
MANUFACTURER :					
TITLE: DESIGN, SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ISHURDI-ROOPPUR 132KV DOUBLE CIRCUIT TRANSMISSION LINE ON TURNKEY BASIS					
DRAWN M.S.S	CHECKED M.R.C	APPROVED		POLE TYPE 1D9P	SCALE N.T.S
DRAWING NAME: LADDER ARRANGEMENT					
DATE	14.02.17	Dwg No:CSL/ZTT-SINOTEC/SD/1D9P	SHT.NO. 13/13	REV :	