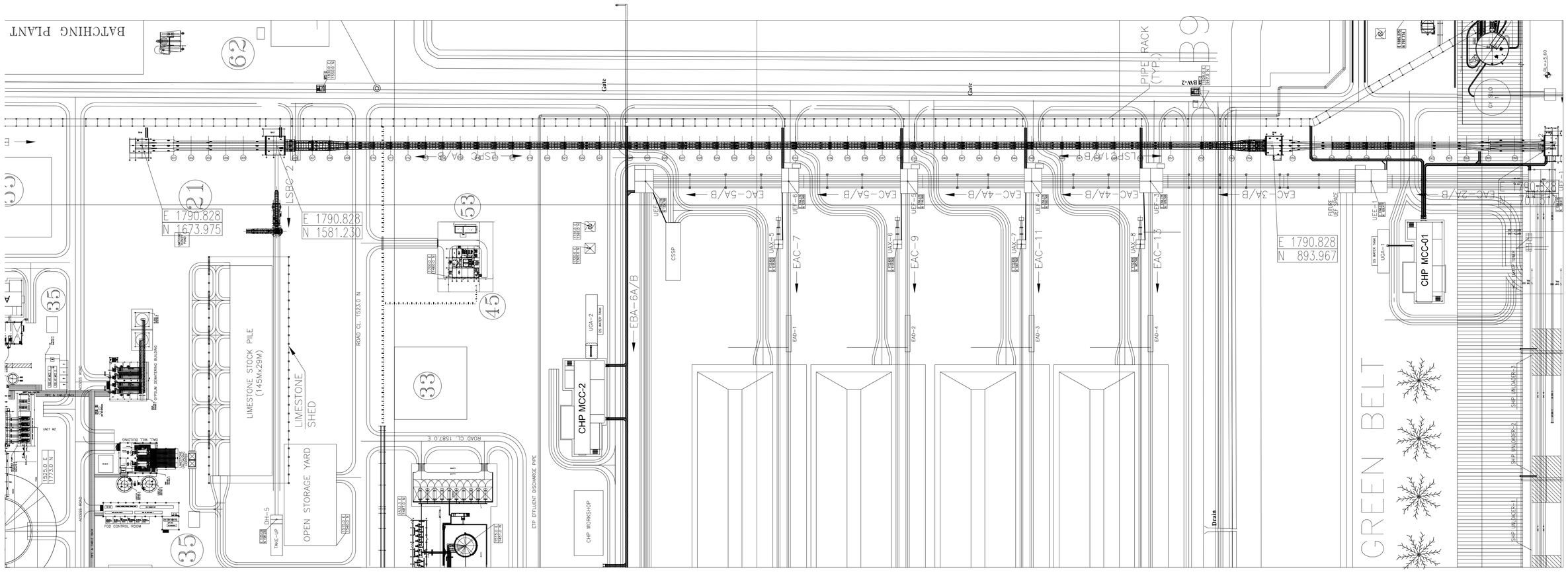

PLAN VIEW WITH ROAD INTERFACE

APPROXIMATE STEEL TONNAGE:
GALLERIES: 619.08 MT
TRESTLES: 578.80 MT

NOTE- Rocker & Roller support depend on BHEL Trestle Design

Name	Date	%AT%	Order.No.:	618-450068	
Basu	13/08/2019	Issued	Tech.Pos.:	-	
Mallick	16/08/2019	Gepr.	Contact:	%SACHBE%	
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-		D	-		
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-		B	-		
-		A	-		

ISO 14405 ⓓ ⧦ Ind Modifikation Ref.: -
ISO 13920-AE Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA LSPC 1A-1B LSPC 1A-1B
Drawing No.: S18-45068-LSPC 1A 1B-LD

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Scale: nts
Sheet/of 1 / 9
Replacement for: -
Replaced by: -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
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3					
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CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

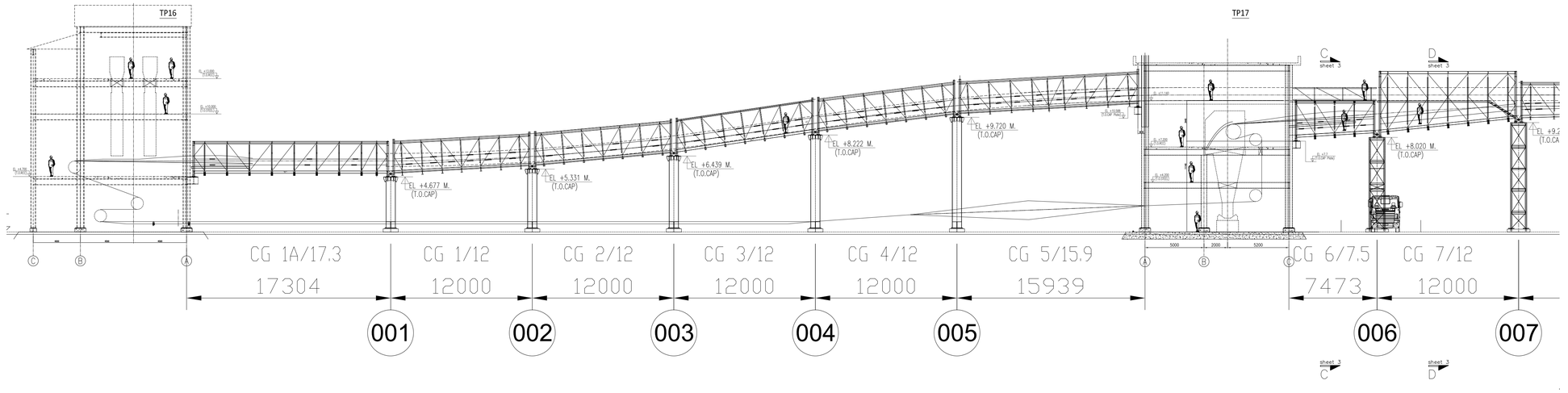
CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

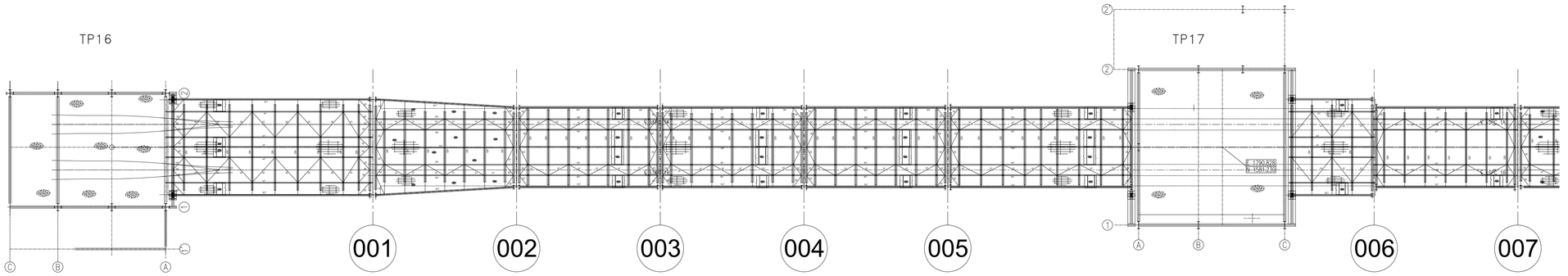
EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

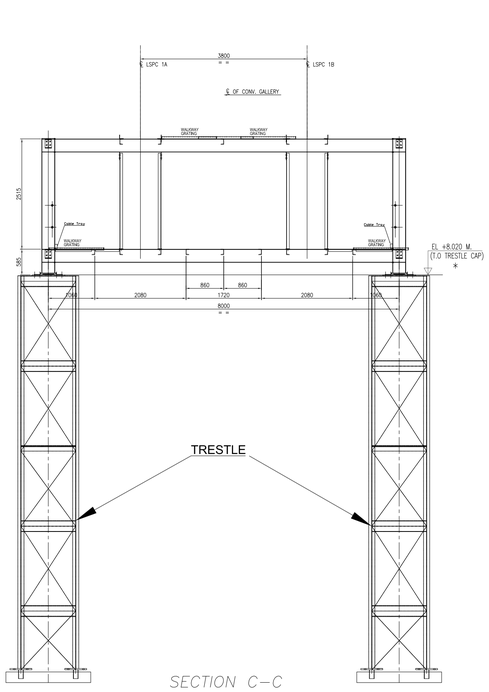
	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

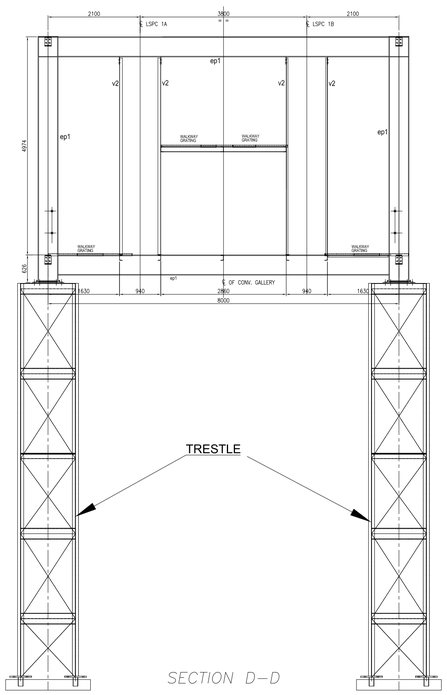
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS
SHEET 1 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.: ----
REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG









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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 2 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES	BHEL JOB NO.: – / STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY	SIZE– A0 [1189 x 841] / PROJECT NO.: 618–450068
SYSTEM	ANNEX.: – / DRAWING NO.: ---- / REV.:
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618–450068
Basu	15/07/2019	Issued	Tech.Pos.:	-
Mallick	16/07/2019	Gepr.	Contact:	%SACHBE%

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-		B	-
-		A	-
Ind.	Modification	Ref.:	-

ISO 14405 ⓔ ISO 13920-A/E
Origin: -
Replacement for: -
Replaced by: -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B
Drawing No.: S18-45068-LSPC 1A 1B-LD
Scale: nts
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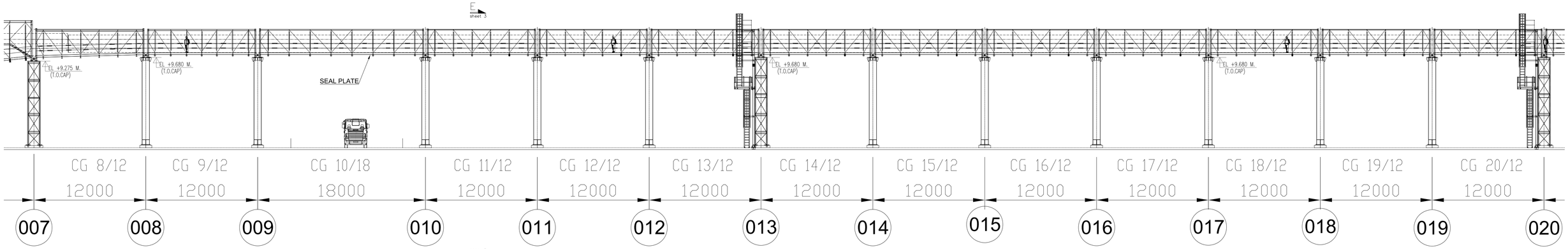

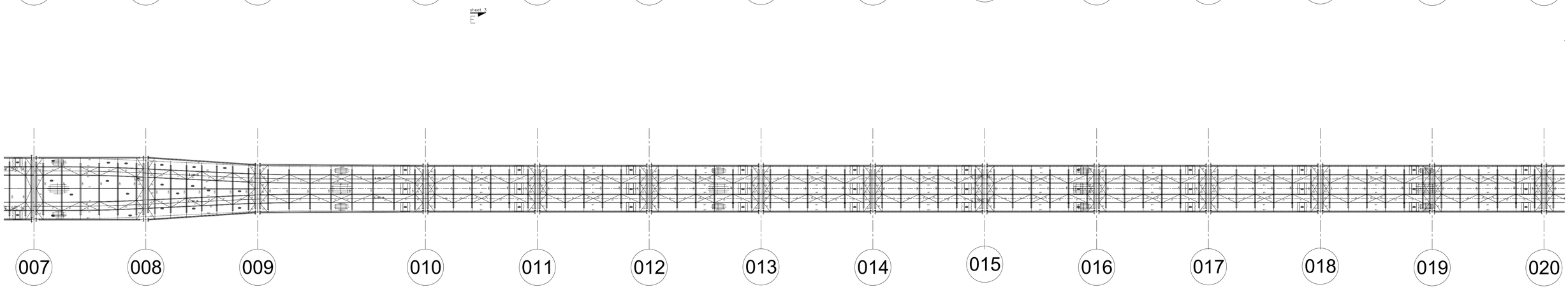

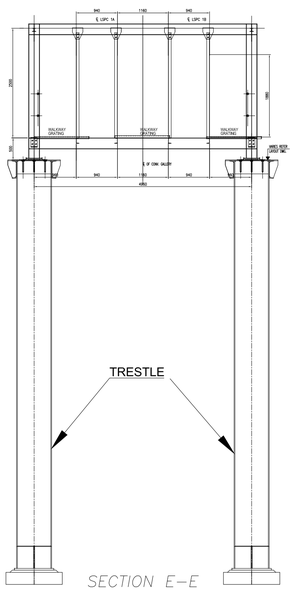

SECTION E–E

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR
BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 3 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.:
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG		

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068	
Basu	13/08/2019	Issued	Tech.Pos.:	-	
Mallick	16/08/2019	Gepr.	Contact:	%SACHBE%	
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-		C	-		
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-		A	-		

ISO 14405 ⓓ ⟺ | Ind | Modification | Ref.: -
ISO 13920-AVE | Origin

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B

Drawing No.
S18-45068-LSPC 1A 1B-LD

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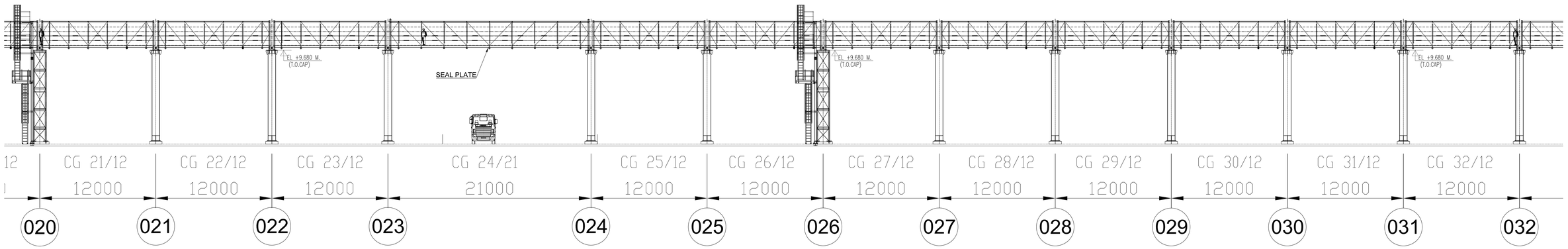

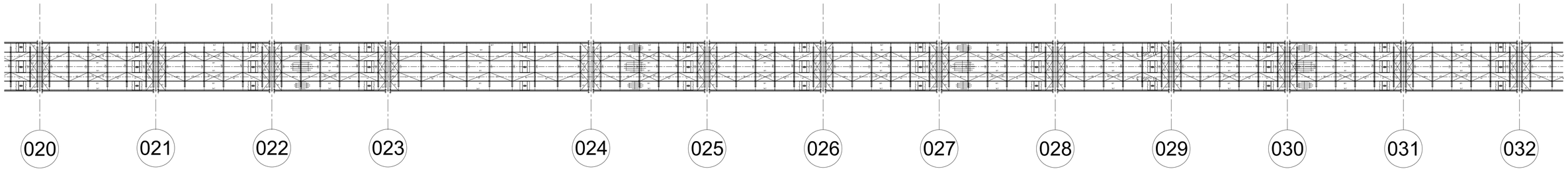

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Mallick	16/08/2019	E	-		
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ISO 14405		Ind	Modification	Ref.: -	
ISO 13920-AE		Origin			

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B

Drawing No.: S18-45068-LSPC 1A 1B-LD

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Sheet/of: 4 / 9

- Replacement for -

Replaced by -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
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CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

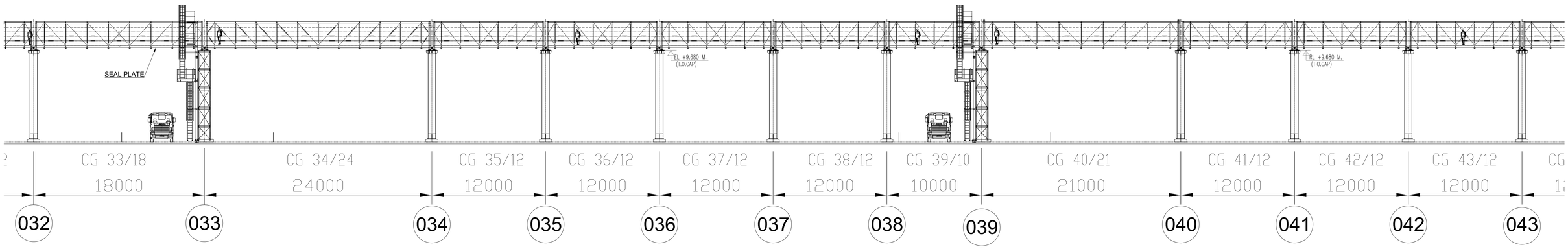
PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

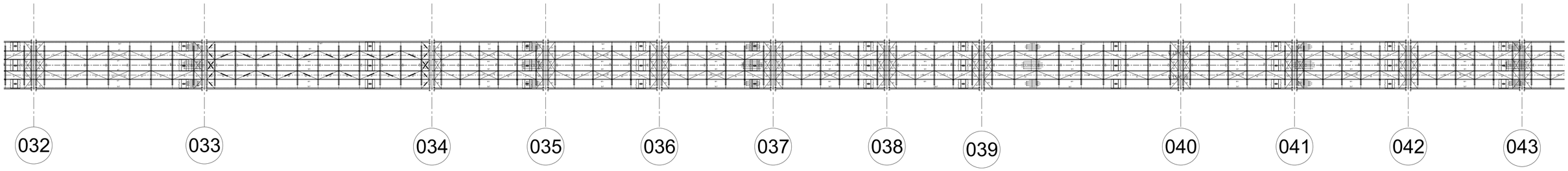
SCALE: NTS

SHEET 4 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.:
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG		





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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	16.07.2019	BEUMER INDIA PVT. LTD.	NTS
CHD	–	16.07.2019	BEUMER Maschinefabrik,Germany	SHEET 5
APPD	–		TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B	OF 54
SUPERSEDES			BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM			ANNEX.: – DRAWING NO.: ----	REV.:
CUSTOMER DRAWING NO.:			Maitree-00-UED-LC-177353-ISG	

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	16/08/2019	Gepr.	Contact:	%SACHBE%
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-		C	-	
-		B	-	
-		A	-	
ISO 14405		Ind	Modifikation	Ref.: -
ISO 13920-A/E			Origin	-

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B

Drawing No.
S18-45068-LSPC 1A 1B-LD

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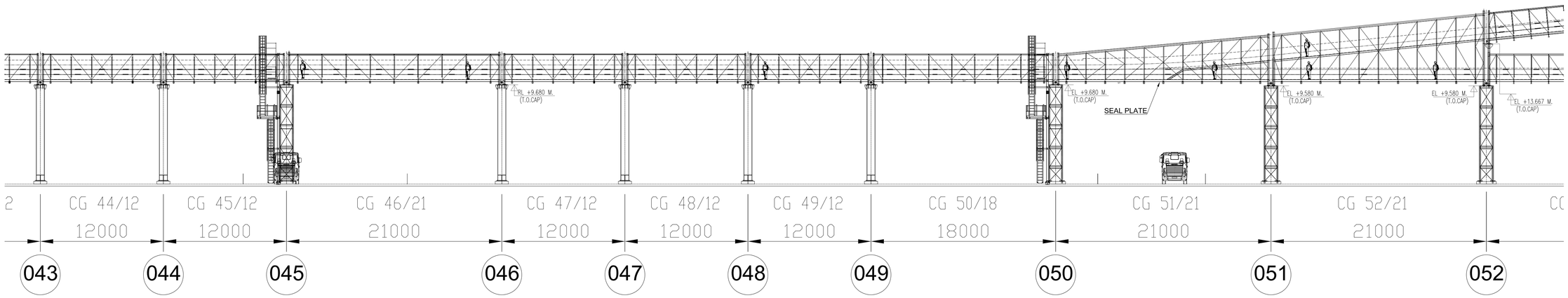

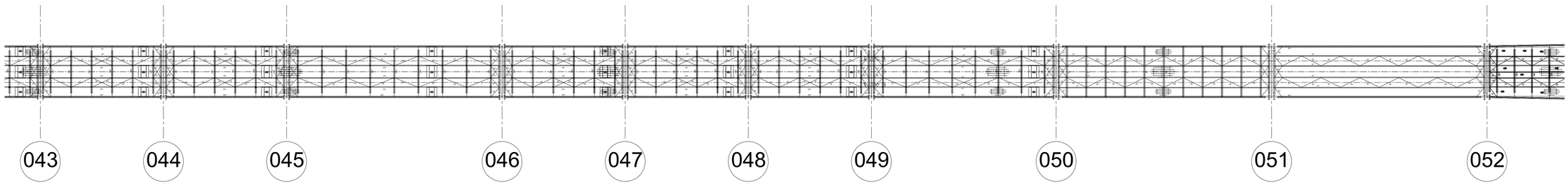

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS

SHEET 6 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.:
CUSTOMER DRAWING NO.:	Maitree-00-UED-LC-177353-ISG		

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/06/2019	Issued	Tech.Proc.:	-
Matlck	16/08/2019	Gepr.	Contact:	%SACHBE%

Ind	Modification	Ref.: -
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D	-	
C	-	
B	-	
A	-	

ISO 14405 ⓓ
ISO 13920-AE
Origin

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B

Drawing No.
S18-45068-LSPC 1A 1B-LD

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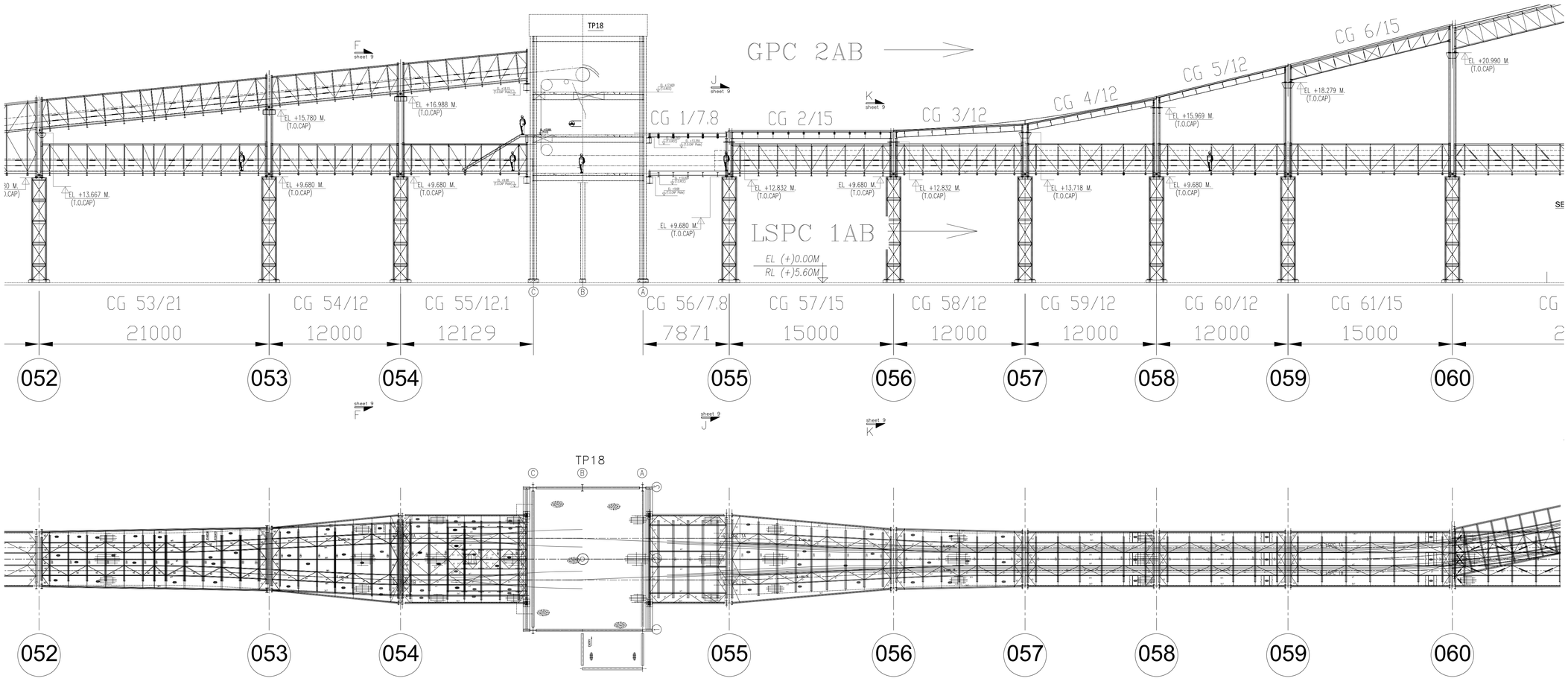

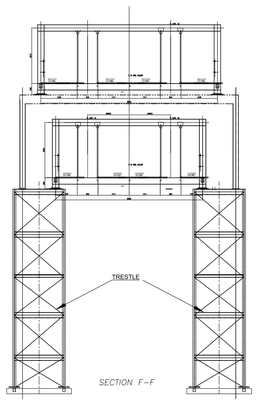

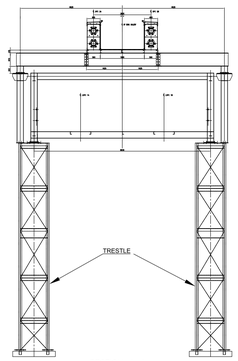

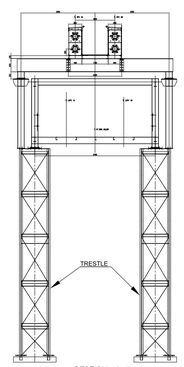

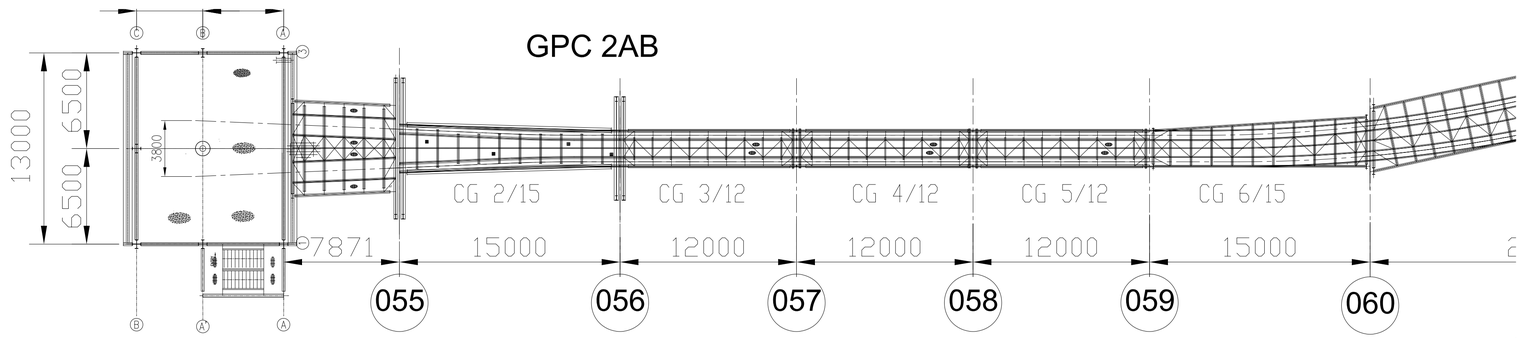

BEUMERGROUP				Customer: BHARAT HEAVY ELECTRICALS LTD.	
Name	Date	%AT%	Order.No.: 618-450068	Designation: STRUCTURAL GA LSPC 1A-1B	
Basu	13/08/2019	Issued	Tech.Pos.: -	LSPC 1A-1B	
Mallick	16/08/2019	Gep.	Contact: %SACHBE%	Drawing No.: S18-45068-LSPC 1A 1B-LD	
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-		D	-	This document and all data contained herein are confidential and exclusive property of BEUMER Group. It may not be copied, transmitted or used in any way for any purpose without express prior written consent. Refer to Protection Notice ISO 16016.	Scale: nts
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-		B	-		
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ISO 14405	Ind	Modification	Ref.: -		
ISO 13920-A/E		Origin	-	Replacement for -	Replaced by -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
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3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

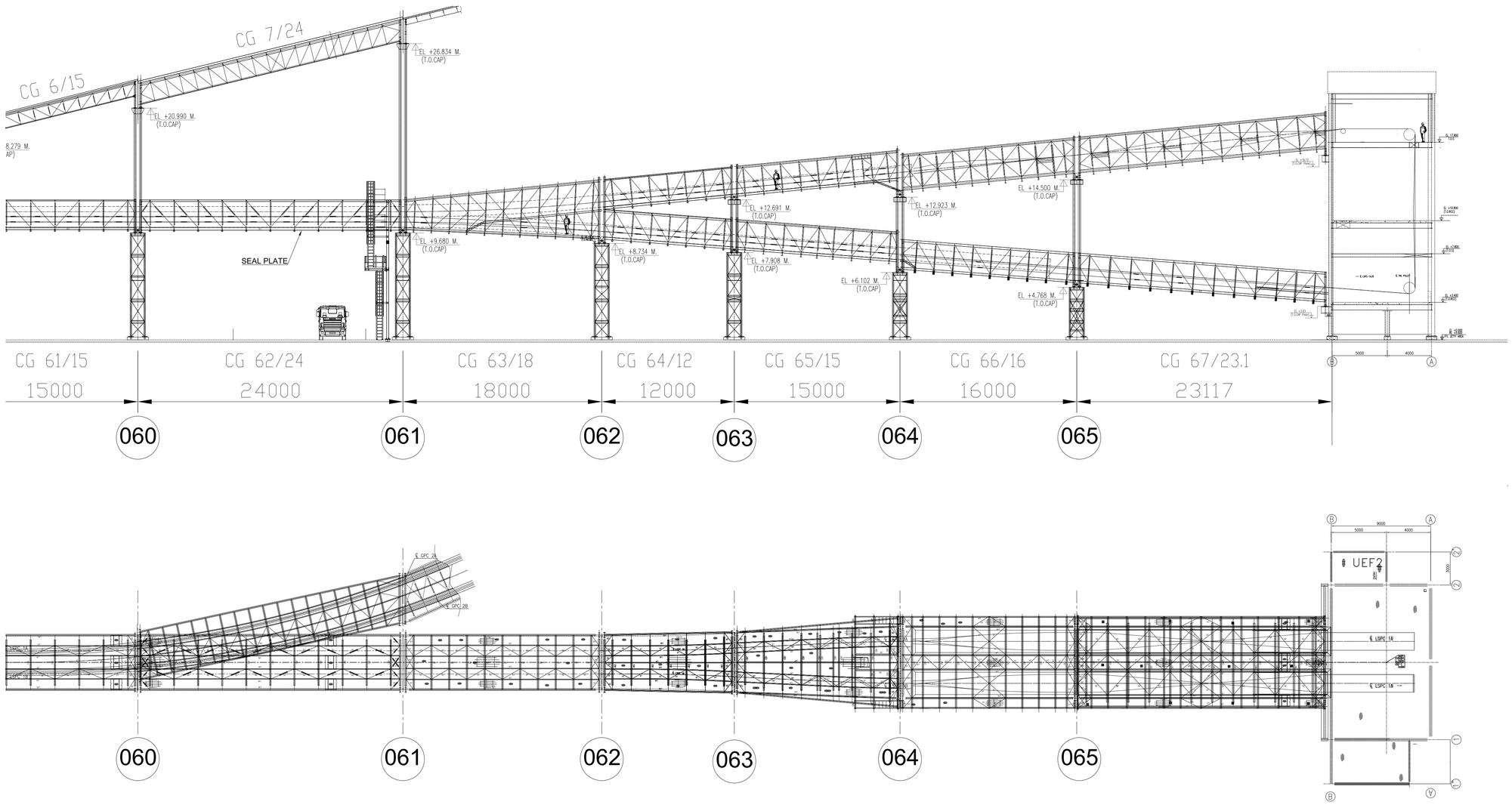
SCALE: NTS

SHEET 7 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES	BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –
DRAWING NO.: ----	REV.:

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG



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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR
BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 8 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.:
CUSTOMER DRAWING NO.:		Maitree–00–UED–LC–177353–ISG	

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	16/08/2019	Gepr.	Contact:	%SACHBE%
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-		D	-	
-		C	-	
-		B	-	
-		A	-	
ISO 14405 ⓔ		Ind	Modification	Ref.: -
ISO 13920-A/E		Origin		

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA LSPC 1A-1B
LSPC 1A-1B

Drawing No.
S18-45068-LSPC 1A 1B-LD

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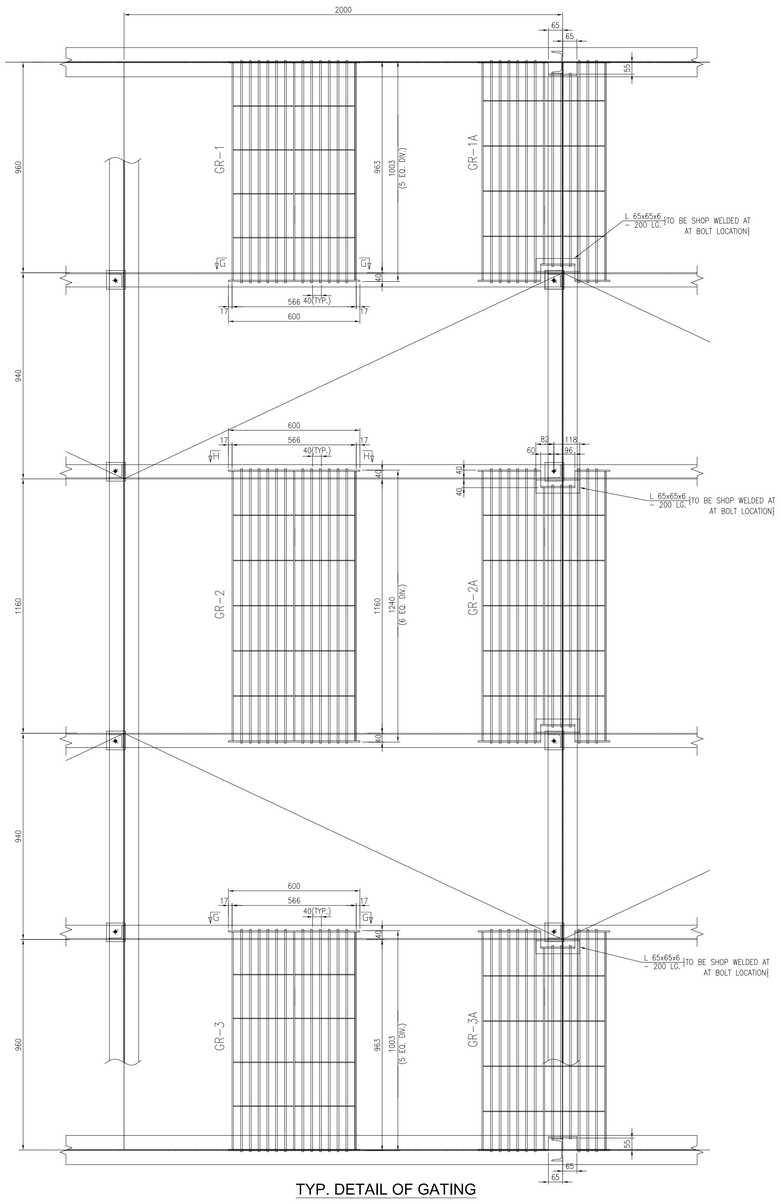
Scale nts

Sheet/of 8 / 9

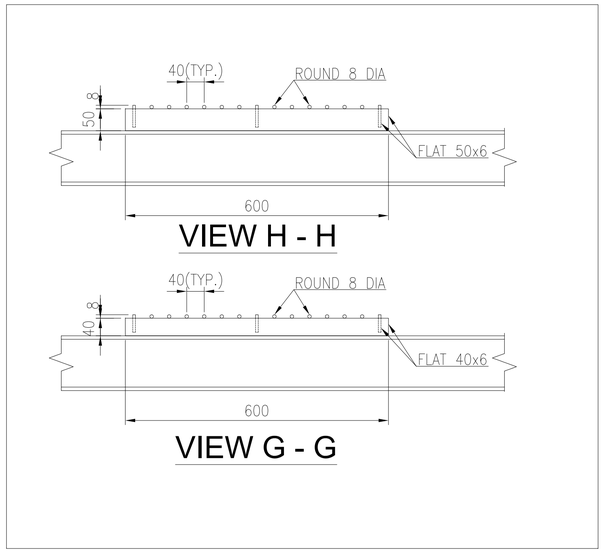
Replacement for -

Replaced by -

TYPICAL GRATING DETAILS



TYP. DETAIL OF GATING



4					
3					
2					
1					
REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE NTS

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SHEET 9 OF 54

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – / DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

STATUS OF DRG.: FOR APPROVAL

PROJECT NO.: 618–450068

REV.:

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618–450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	16/08/2019	Gepr.	Contact:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA LSPC 1A-1B / LSPC 1A-1B

Drawing No.: S18-45068-LSPC 1A 1B-LD

Scale: nts

Sheet/of 9 / 9

ISO 14405 ISO 13920-A/E

Ind. Modifikation Ref.: -

Origin: -

Replacement for: -

Replaced by: -

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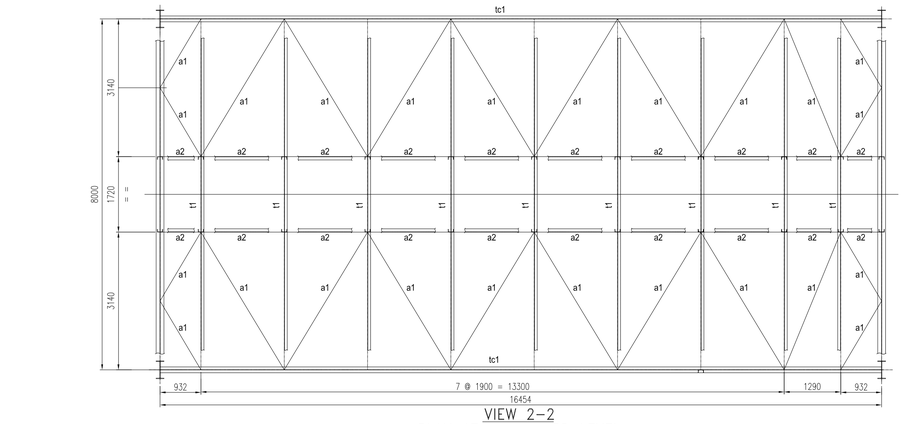
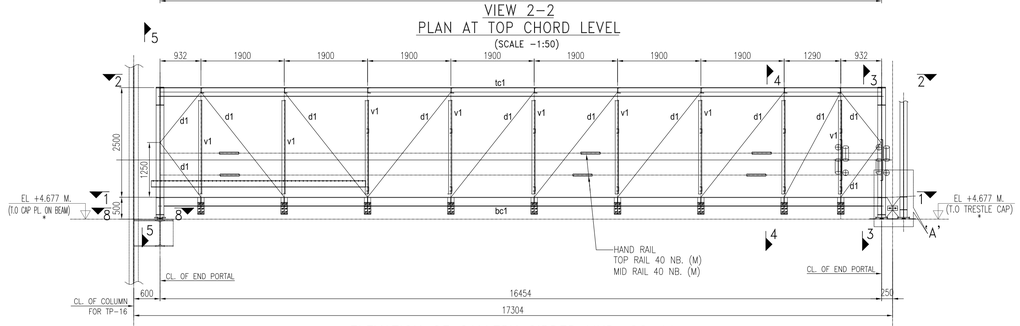
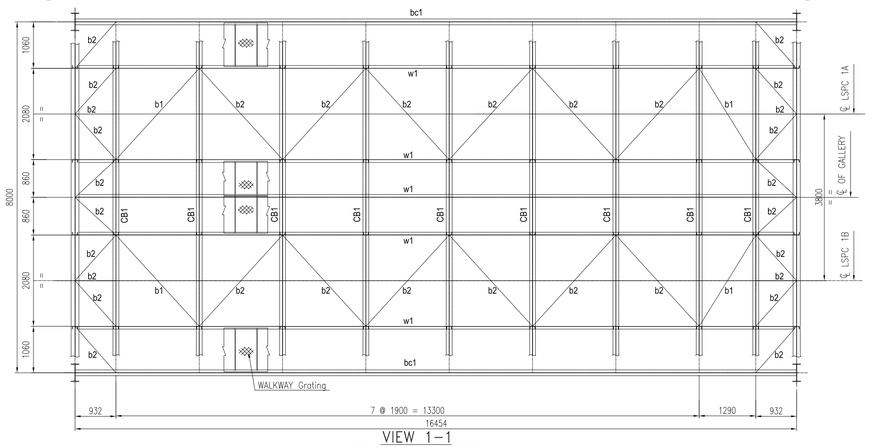


VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

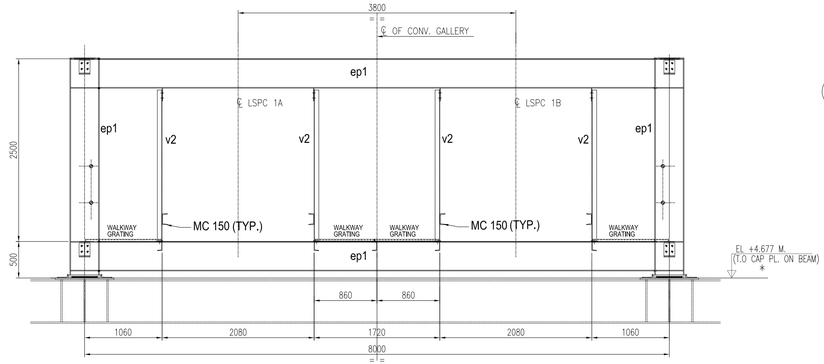


ELEVATION OF GALLERY GIRDER MKD. CG–1A
(SCALE –1:50)

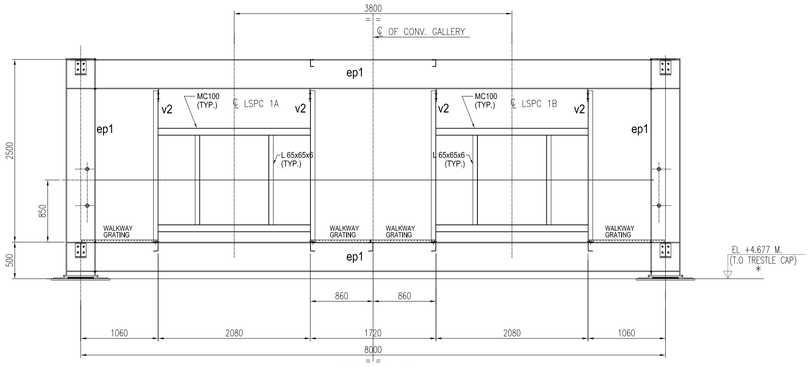


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

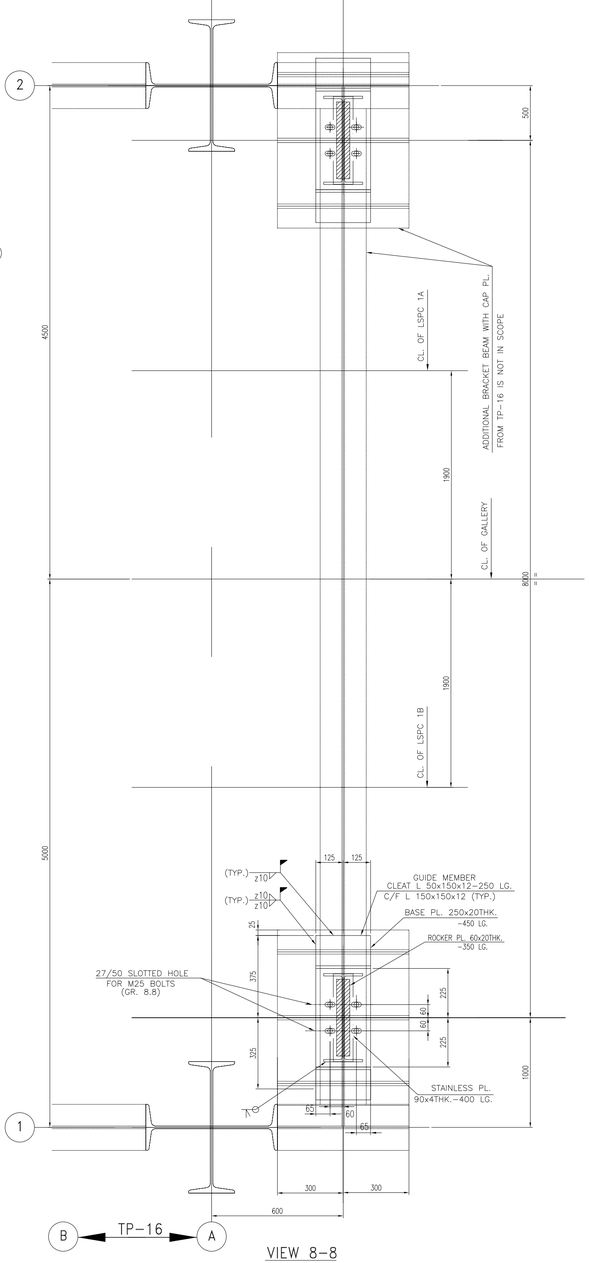
SCHEDULE OF MEMBERS FOR LSPC CG–1A GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌐	50
		a2	ISMC 100 [	20
		t1	ISMC 125 [	50
2	BOTTOM CHORD	bc1	UB 203x133x25	120
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8 ⌐	65
		b2	L 75x75x8 ⌐	50
	CROSS BEAM	CB1	UB 254x146x31	50
3	VERTICAL	v1	ISMC 150 [	175
		v2	ISMC 125 [	30
4	DIAGONAL	d1	2Ls 75x75x8 ⫩	250
5	END PORTAL	ep1	UB 406x178x54	220
6	WALK WAY STRINGER	w1	ISMC 125 [	65
7	FLOOR PL.		GRATING	
8	GST. PLATE 8 THK.			



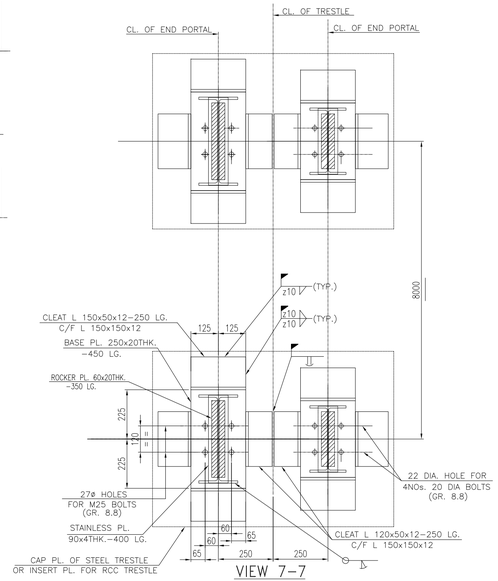
VIEW 5–5
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



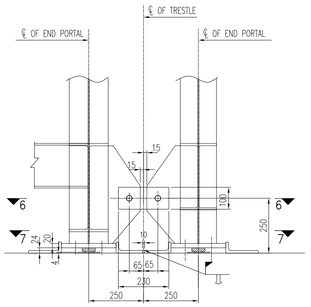
VIEW 3–3
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



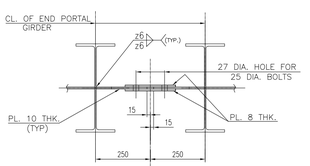
VIEW 8–8
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



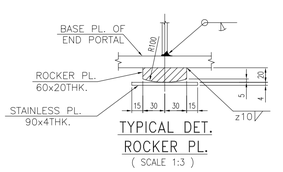
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



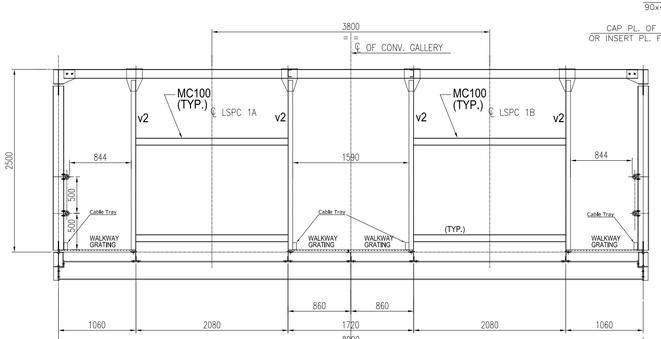
DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 4–4
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%
-	-	E	-
-		D	-
-		C	-
-	-	B	-
-	-	A	-

ISO 14405 ℗ ISO 13920-AVE | Ind | Modification | Ref.: - | Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-1A LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_001

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Scale: nts | Sheet/of: 1 / 1

- Replacement for: - | Replaced by: -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

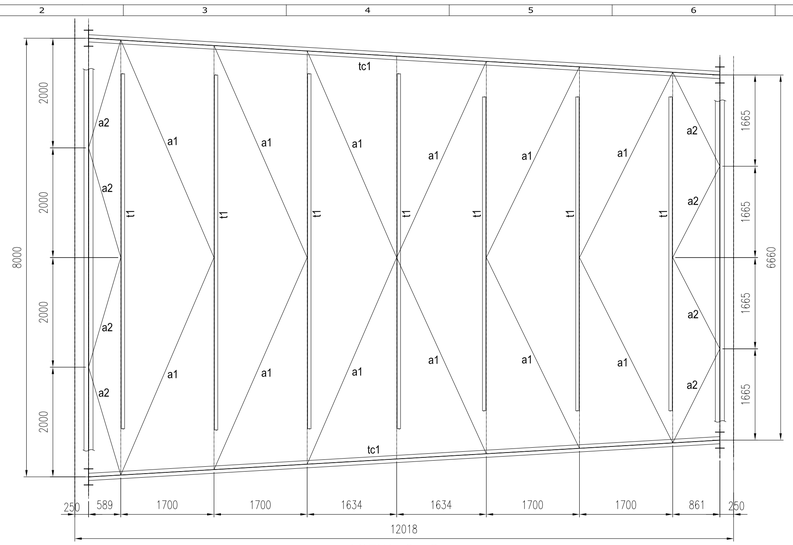
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET: 10 | OF: 54

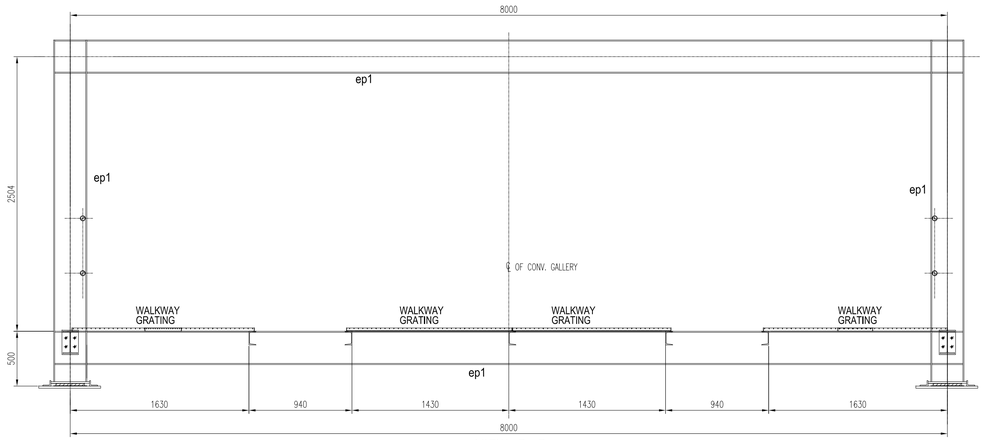
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM	ANNEX.: – DRAWING NO.: ----	REV.: 0

CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

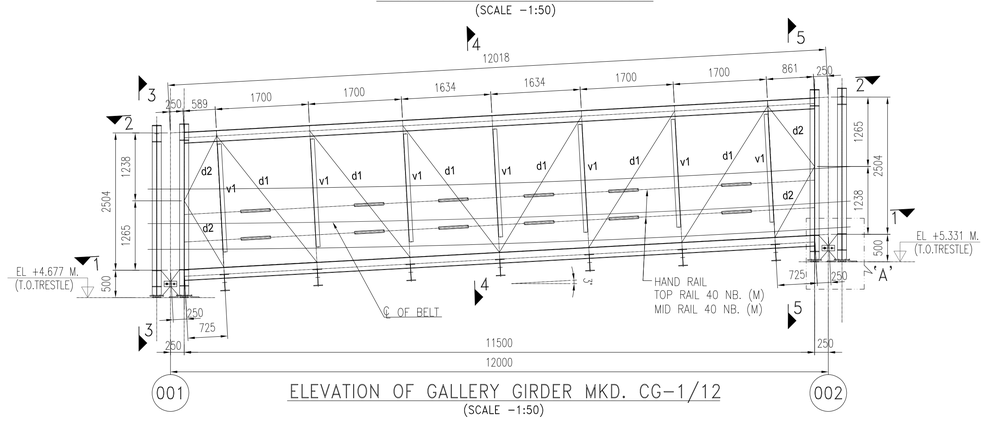


VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

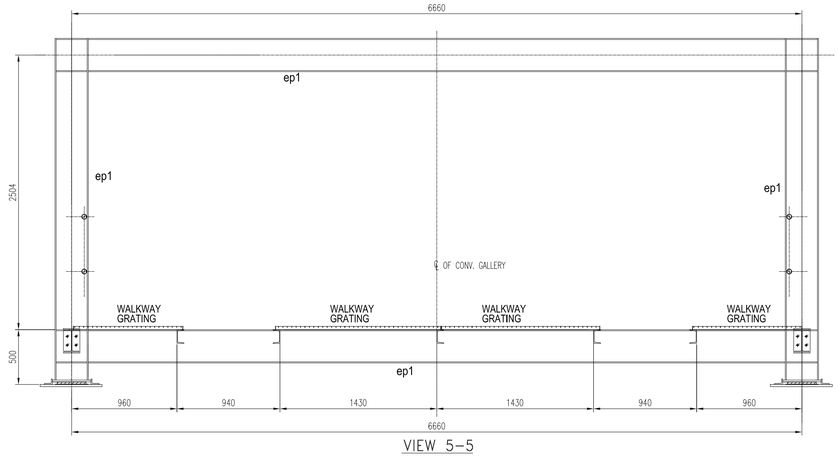


VIEW 3–3

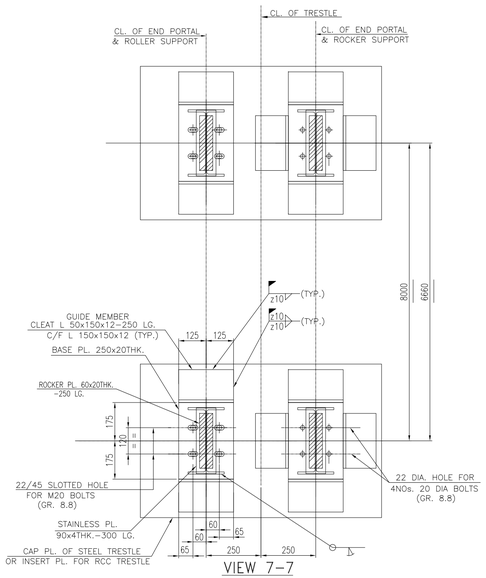
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	45
		a2	L 75x75x8 ⌜	45
		t1	ISMC 125 ⌝	40
2	BOTTOM CHORD	bc1	UB 203x133x25	330
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	90
		b2	L 65x65x6 ⌜	80
	CROSS BEAM	CB1	UB 305x165x40	55
3	VERTICAL	v1	ISMC 150 ⌞	140
		v2	ISMC 75 ⌞	10
4	DIAGONAL	d1	2Ls 65x65x6 ⊤⊥	240
		d2	L 75x75x8 ⌜	145
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125 ⌞	90
7	FLOOR PL.	GRATING		
8	GST PLATE 8 THK.			



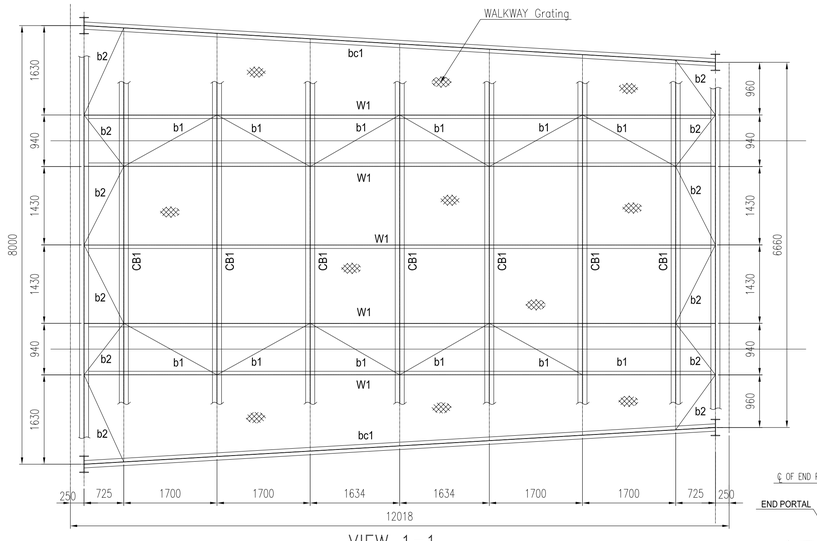
ELEVATION OF GALLERY GIRDER MKD. CG–1/12
(SCALE –1:50)



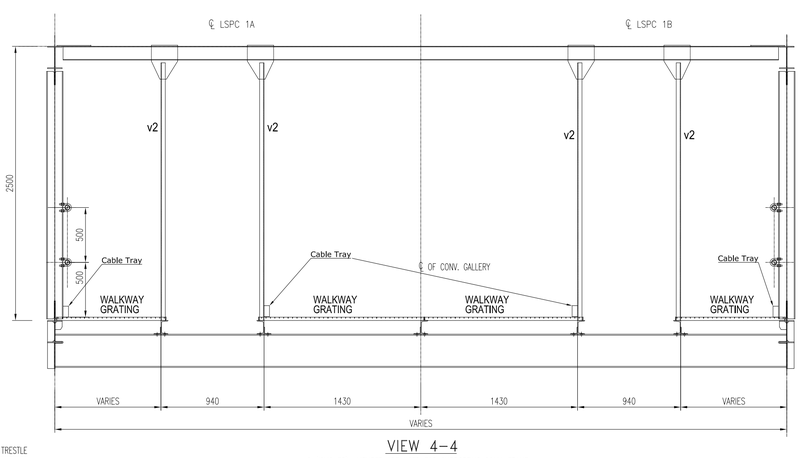
VIEW 5–5



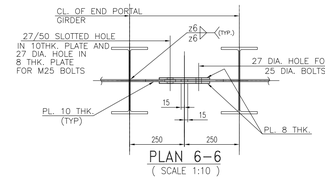
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



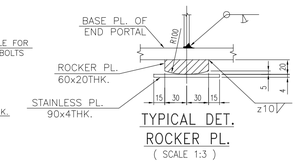
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



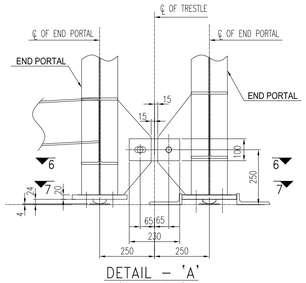
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



PLAN 6–6
(SCALE 1:10)



TYPICAL DET. ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	16/07/2019	Issued	Tech.Pos.:	-
Mallick	16/07/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ⓓ ISO 13920-AE

Ind	Modification	Ref.: -
		Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-1/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_002

Scale: nts

Sheet/of 1 / 1

- Replacement for -
- Replaced by -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET 11 OF 54

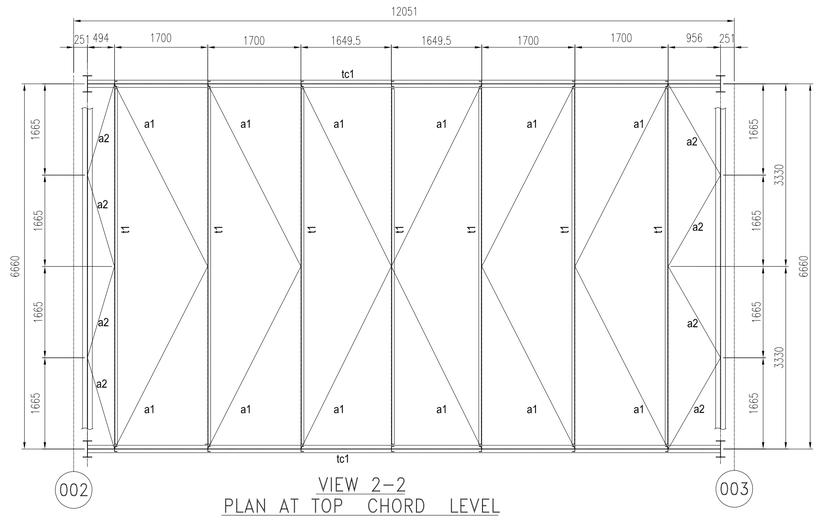
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES: BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

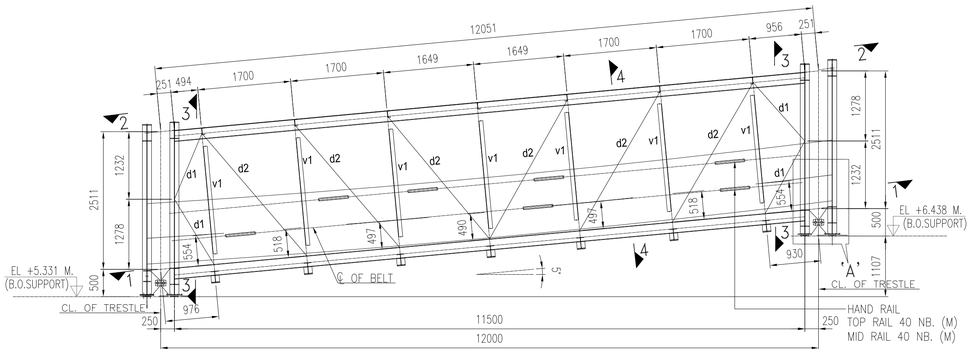
SUPERSEDED BY: SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068

SYSTEM: ANNEX.: – | DRAWING NO.: ---- | REV.: O

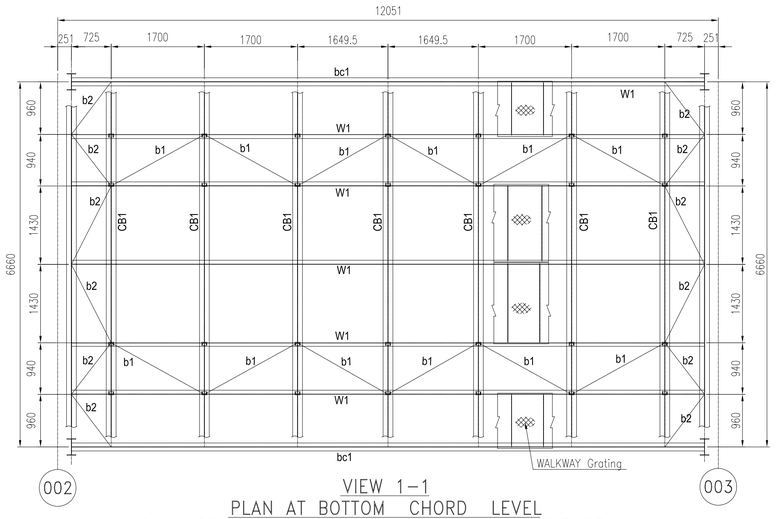
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



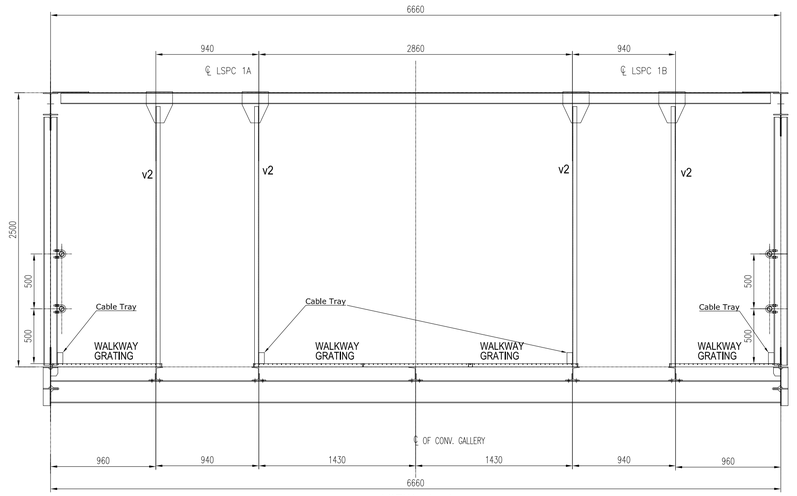
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



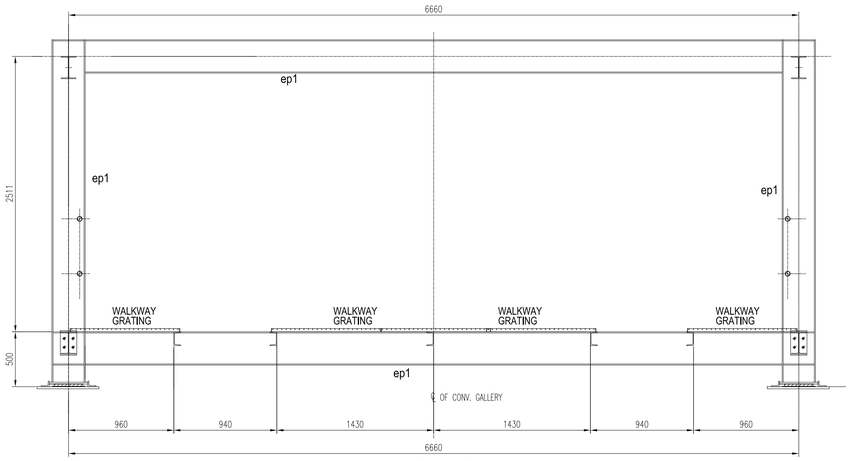
ELEVATION OF GALLERY GIRDER MKD. CG–2/12
(SCALE –1:50)



VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

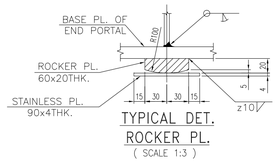


VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

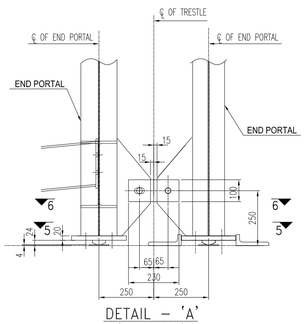


VIEW 3–3

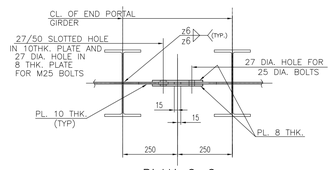
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	25
		a2	L 75x75x8 ⌜	25
		t1	ISMC 125 ⊏	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	50
		b2	L 65x65x6 ⌜	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150 ⊏	50
		v2	ISMC 75 ⊏	80
4	DIAGONAL	d1	L 75x75x8 ⌜	95
		d2	2Ls 65x65x6 ⊥	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125 ⊏	145
7	FLOOR PL.	GRATING		
	GST. PLATE 8THK.			



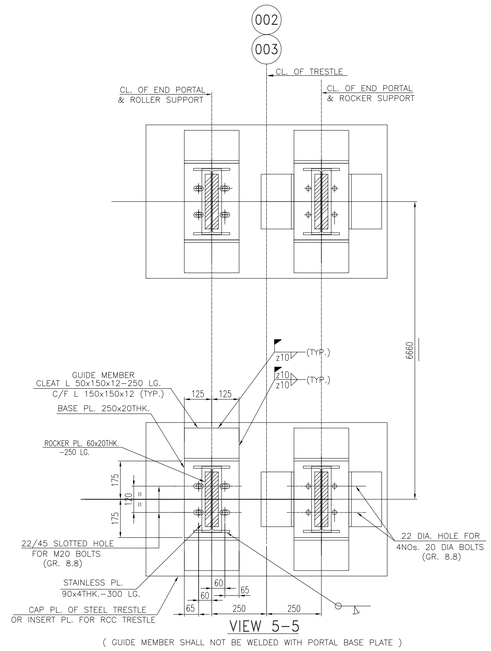
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 12 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
SYSTEM
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-2/12 LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_003
Scale: nts
Sheet/of 1 / 1
ISO 14405 ⓓ
ISO 13920-A/E
Ind. Modification Ref.: -
Origin
Replacement for: -
Replaced by: -

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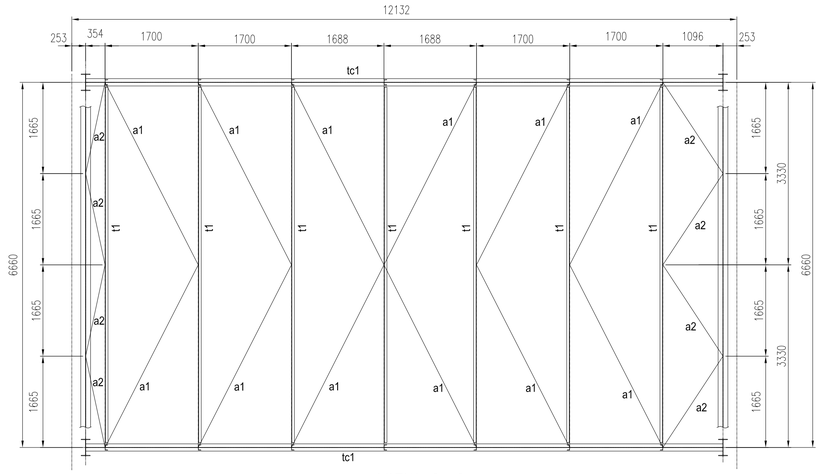
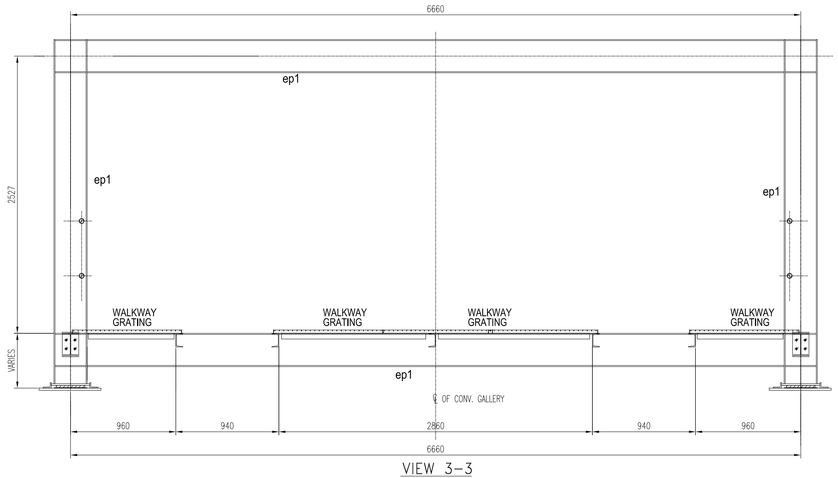
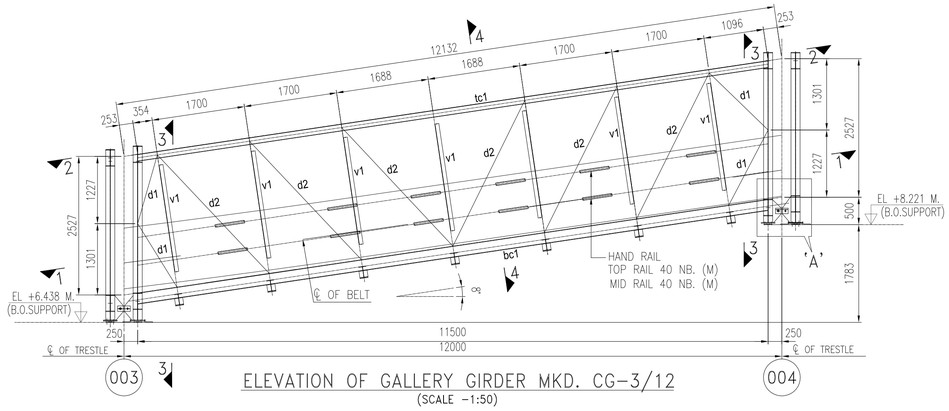


VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

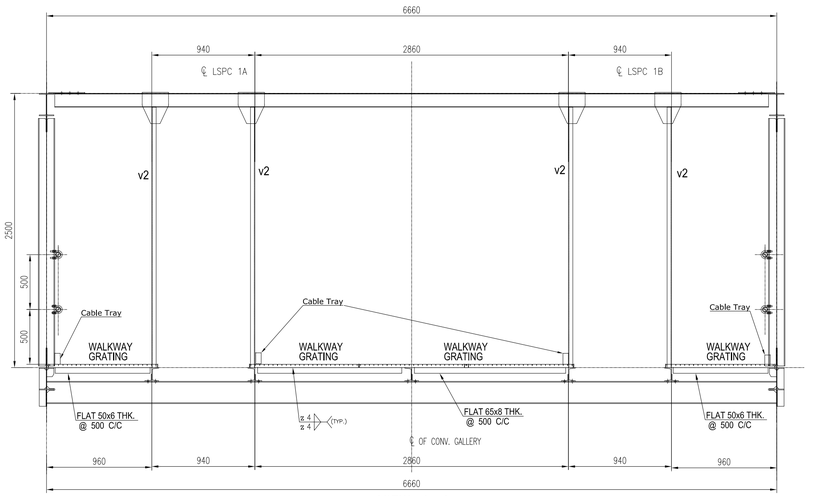


VIEW 3–3

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	25
		a2	L 75x75x8	25
		t1	ISMC 125	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	50
		b2	L 65x65x6	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150	50
		v2	ISMC 75	80
4	DIAGONAL	d1	L 75x75x8	95
		d2	2Ls 65x65x6	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125	145
7	FLOOR PL.	6 O/P CHEQ. PL.		
	GST. PLATE 8THK.			

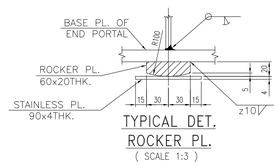


ELEVATION OF GALLERY GIRDER MKD. CG–3/12
(SCALE –1:50)

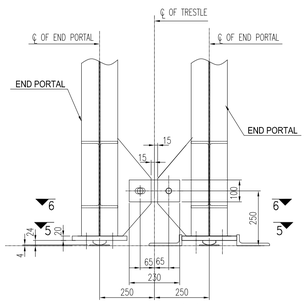


VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

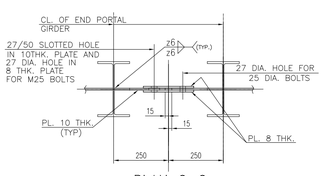
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



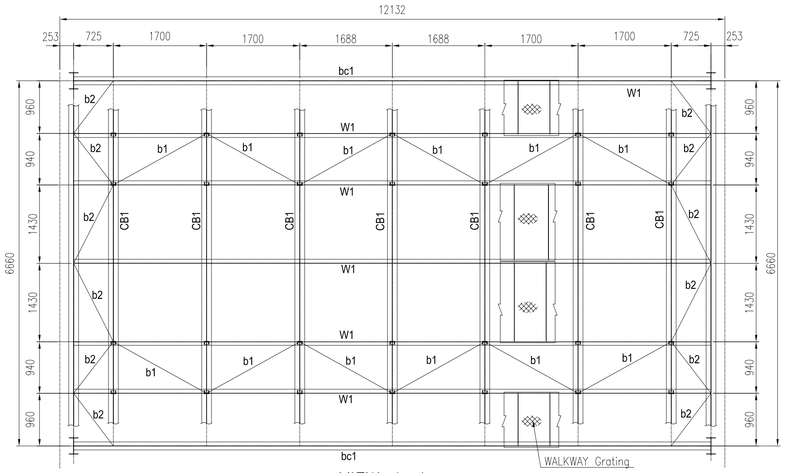
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

-	-	E	-
-	-	D	-
-	-	C	-
-	-	B	-
BCE	21/08/2019	A	SUBMISSION FOR APPROVAL
ISO 14405 ℗		Ind	Modifikation Ref.: -
ISO 13920-A/E		Origin	-

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-3/12
LSPC 1A/1B
Drawing No.: S18-45068-LSPC-1A/1B-LD-003
Scale: nts
Sheet/of 1 / 1
Replacement for: -
Replaced by: -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

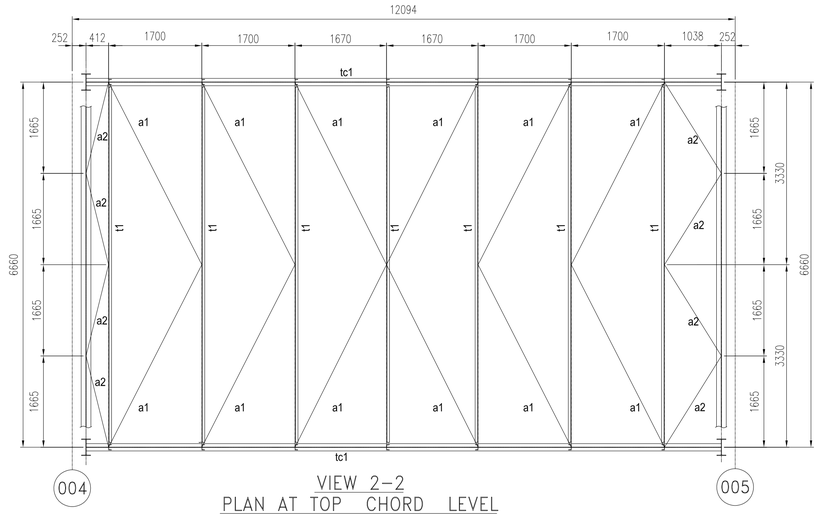
CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

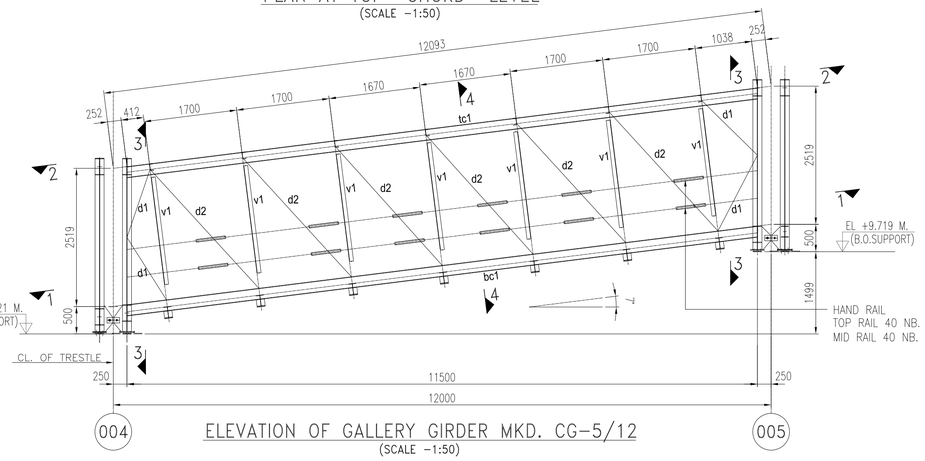
EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

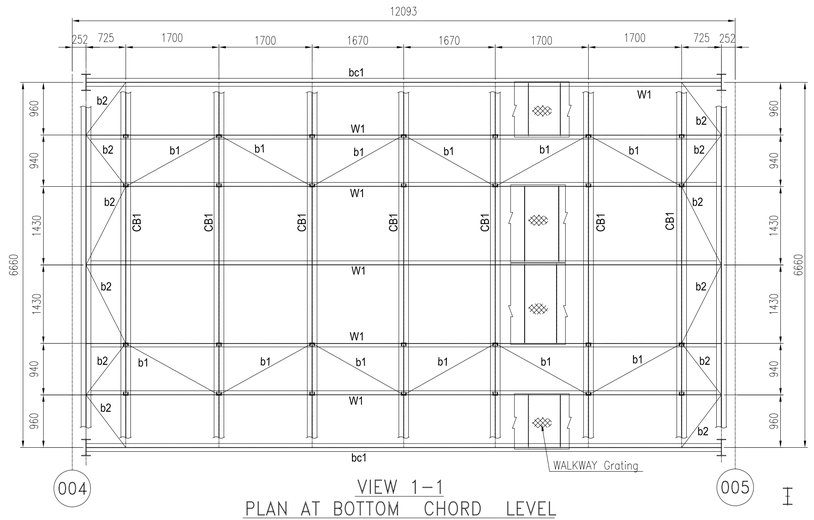
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 13 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



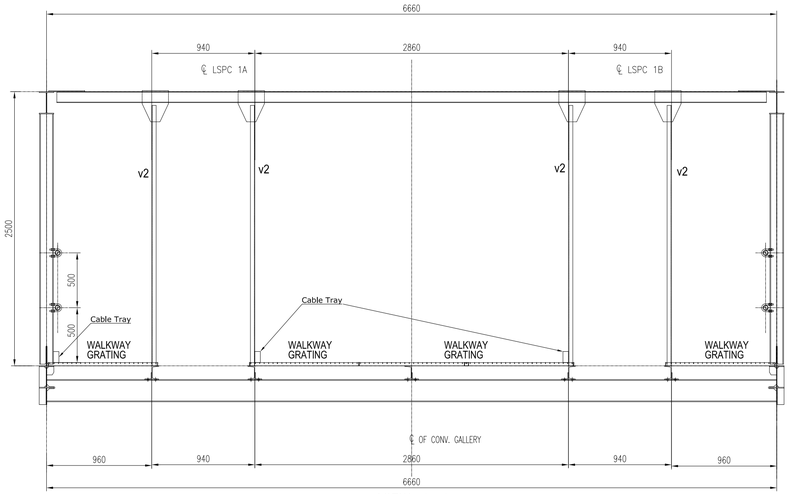
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



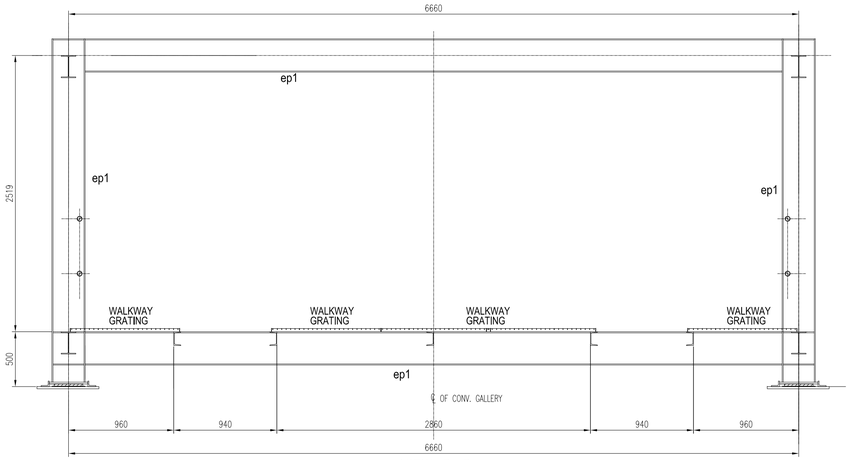
ELEVATION OF GALLERY GIRDER MKD. CG–5/12
(SCALE –1:50)



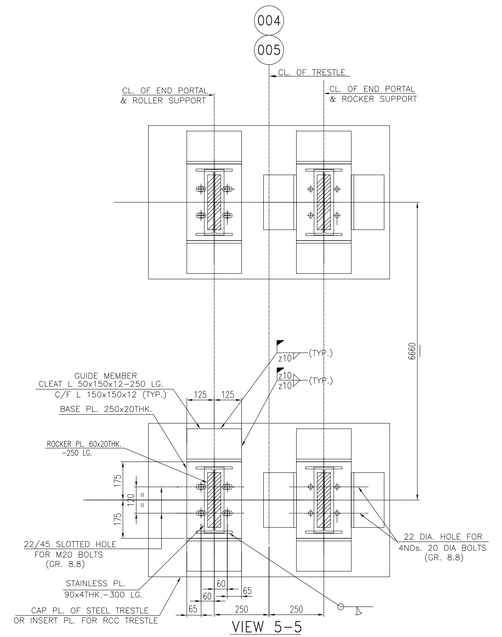
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



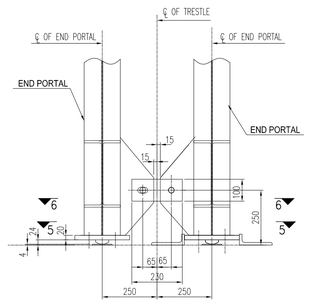
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



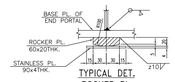
VIEW 3–3

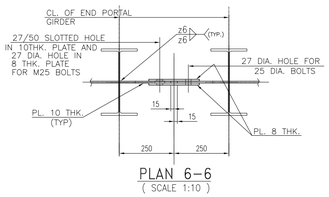


VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 'A'
(SCALE 1:10)





PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	25
		a2	L 75x75x8	25
		t1	ISMC 125	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	50
		b2	L 65x65x6	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150	50
		v2	ISMC 75	80
4	DIAGONAL	d1	L 75x75x8	95
		d2	2Ls 65x65x6	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125	145
7	FLOOR PL.	GRATING		
	GST. PLATE 8THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%ALT%	Order.No.: 618-450068
Basu	13/06/2019	Issued	Tech.Pos.: -
Mallick	14/06/2019	Gepr.	Contact: %SACHBE%

4			
3			
2			
1			
REV	DATE	DRN	CHD APPD

DESCRIPTION/NOTE

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-4/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_005

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Scale: nts

Sheet/of 1 / 1

ISO 14405 ISO 13920-AE

Origin: - Replacement for: - Replaced by: -

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 14 OF 54

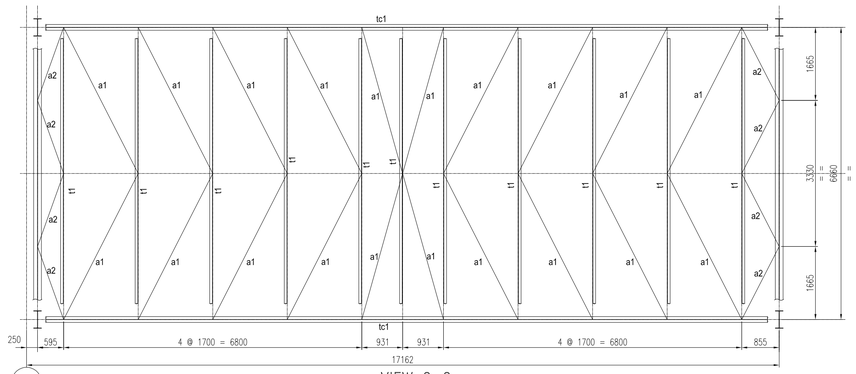
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES | BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY | SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068

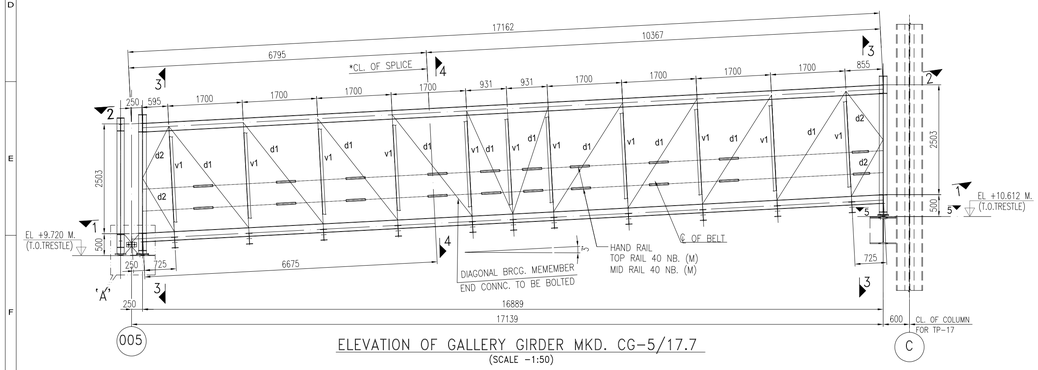
SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



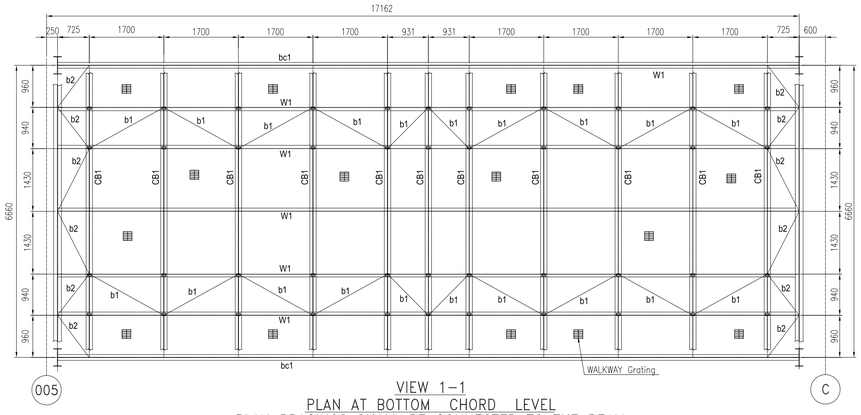
005

VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



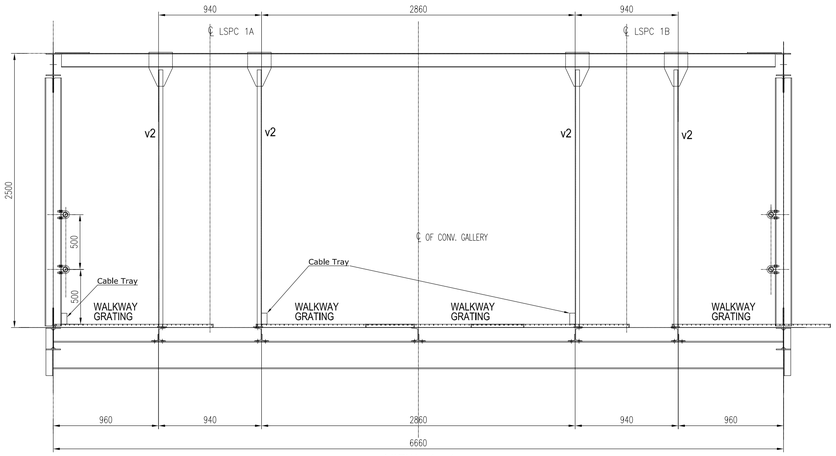
005 C

ELEVATION OF GALLERY GIRDER MKD. CG–5/17.7
(SCALE –1:50)

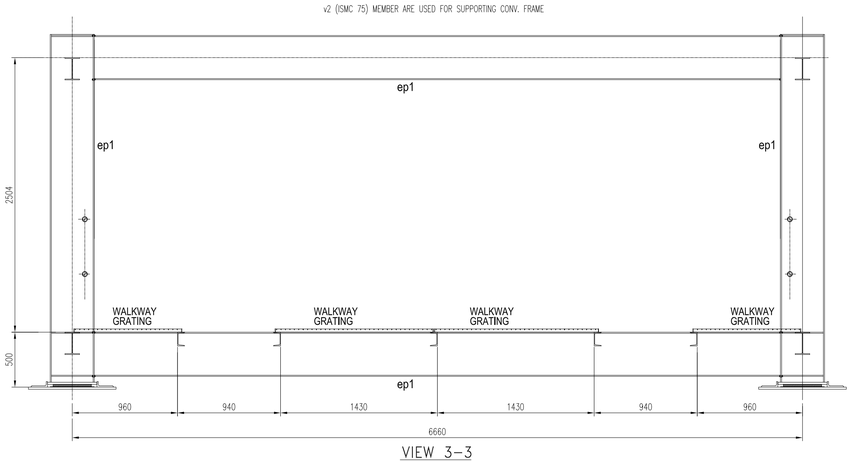


005 C

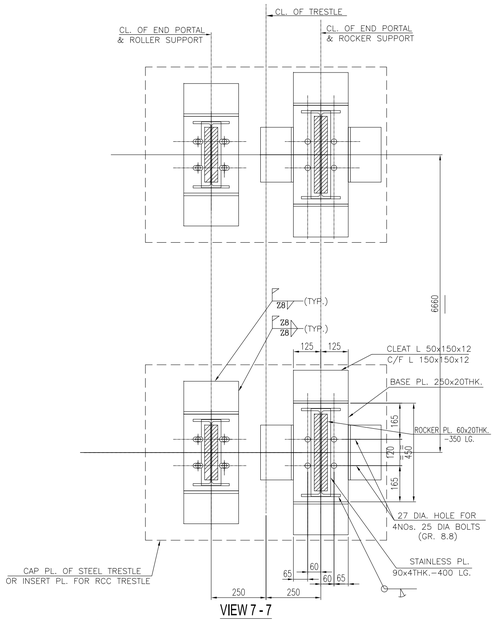
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



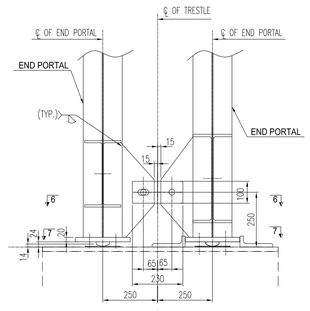
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



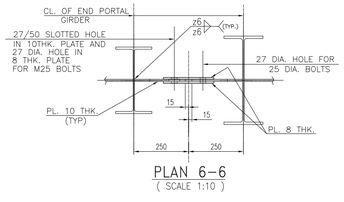
VIEW 3–3



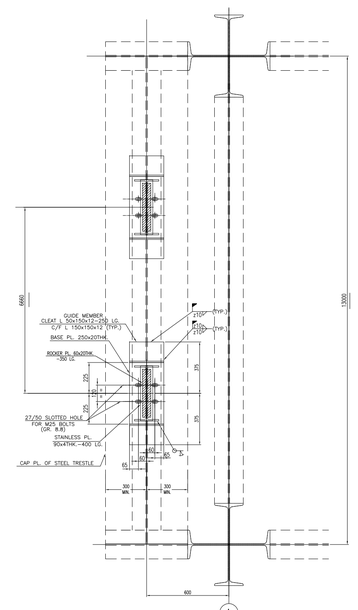
VIEW 7 - 7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



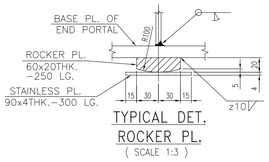
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



PLAN 6–6
(SCALE 1:10)



VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR LSPC CG–5/17.7 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	420
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	40
		a2	L 75x75x8 ⌜	30
		t1	ISMC 125 ⌝	35
2	BOTTOM CHORD	bc1	UB 203x133x25	340
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 100x100x10 ⌜	80
		b2	L 75x75x8 ⌜	120
	CROSS BEAM	CB1	UB 254x146x31	90
3	VERTICAL	v1	ISMC 150 ⊏	145
		v2	ISMC 75 ⊏	10
4	DIAGONAL	d1	2Ls 65x65x6 ⊤	230
		d2	L 90x90x8 ⌝	150
5	END PORTAL	ep1	UB 406x178x54	265
6	WALK WAY STRINGER	w1	ISMC 125 ⊏	10
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618–450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contract:	%SACHBE%
-	-	E	-	
-	-	D	-	
-	-	C	-	
-	-	B	-	
-	-	A	-	

ISO 14405 ⓓ ISO 13920-A/E | Ind | Modifikation | Ref.: -

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-5/17.7 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_006

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Scale: nts

Origin: - | Replacement for: - | Replaced by: -

Sheet/of 1 / 1

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

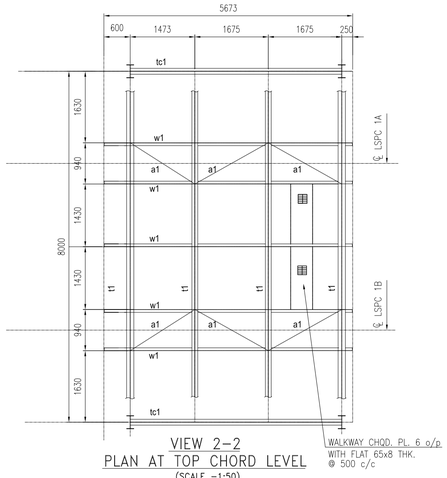
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET: 15 | OF: 54

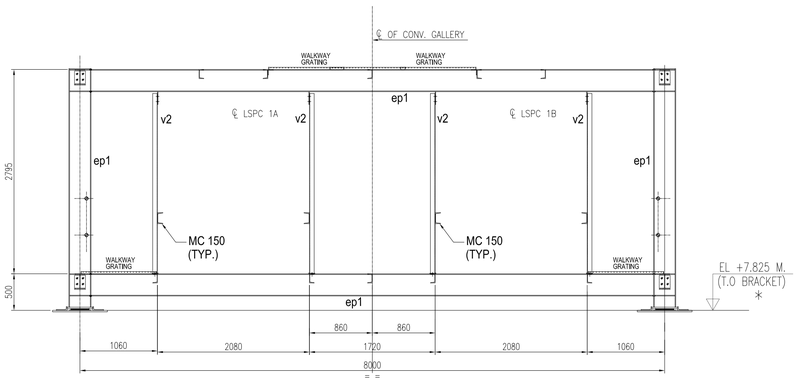
TITLE: ARRGT & DETAIL GA OF GALLERY MKD. CG-5/17.7 LSPC 1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

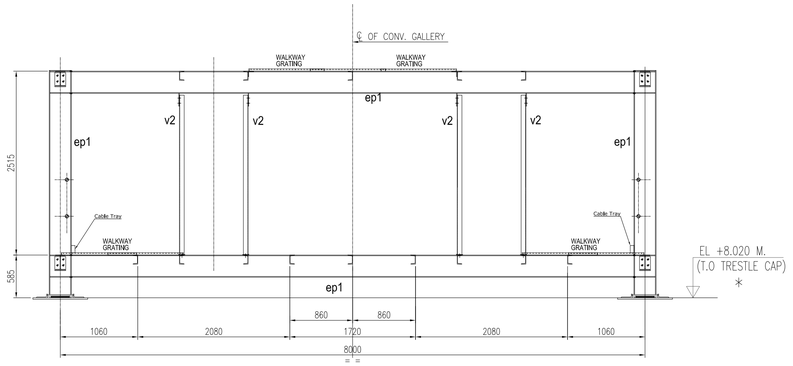
STATUS OF DRG.: FOR APPROVAL | PROJECT NO.: 618–450068 | DRAWING NO.: ---- | REV.: 0



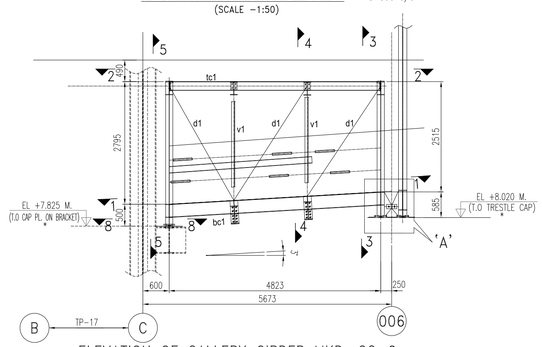
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



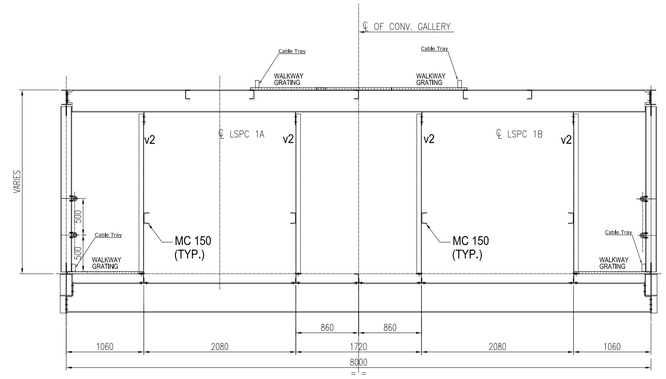
VIEW 5–5
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



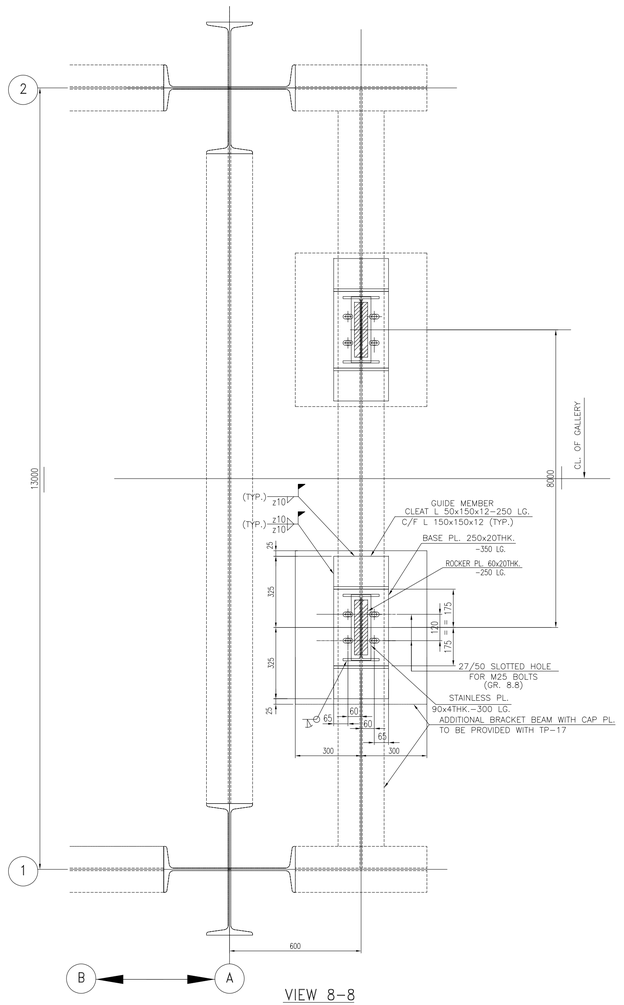
VIEW 3–3
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



ELEVATION OF GALLERY GIRDER MKD. CG–6
(SCALE –1:50)

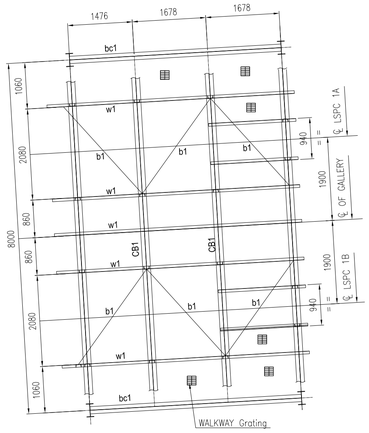


VIEW 4–4
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

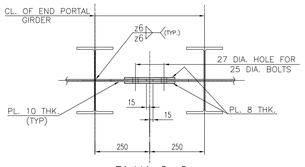


VIEW 8–8
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

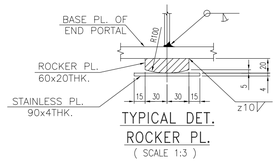
SCHEDULE OF MEMBERS FOR LSPC CG–6				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	60
		t1	UB 305x165x40	20
2	BOTTOM CHORD	bc1	UB 305x165x40	140
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8	80
	CROSS BEAM	CB1	UB 406x178x54	20
3	VERTICAL	v1	ISMC 150	120
		v2	ISMC 125	15
4	DIAGONAL	d1	2Ls 75x75x8	220
5	END PORTAL	ep1	UB 305x165x40	235
6	WALK WAY STRINGER	w1	ISMC 125	55
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			



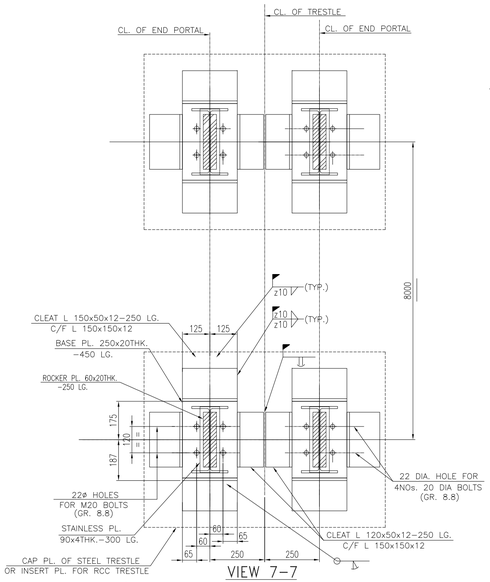
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



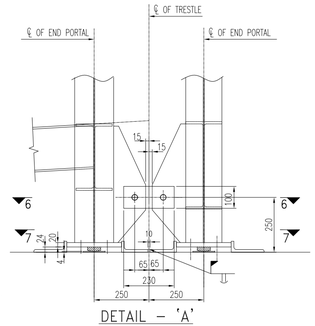
PLAN 6–6
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 'A'
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618–450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contract: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG–6/5.6 LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_007
Scale: nts
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ISO 14405 ⓔ ISO 13920–A/E
Ind. Modifikation Ref.: -
Origin: -
Sheet/of: 1 / 1
Replacement for: -
Replaced by: -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

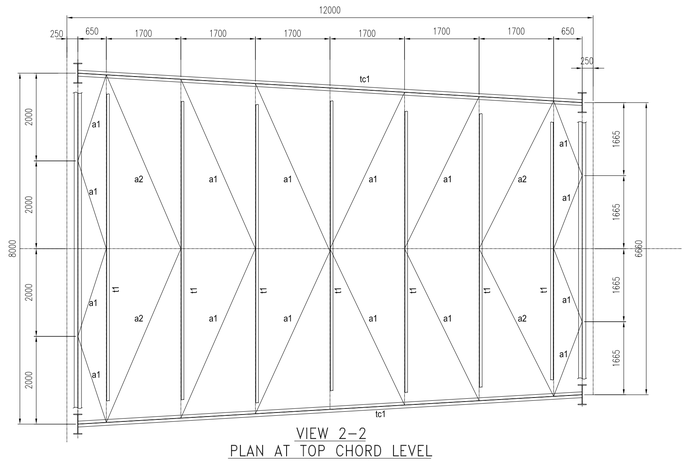
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

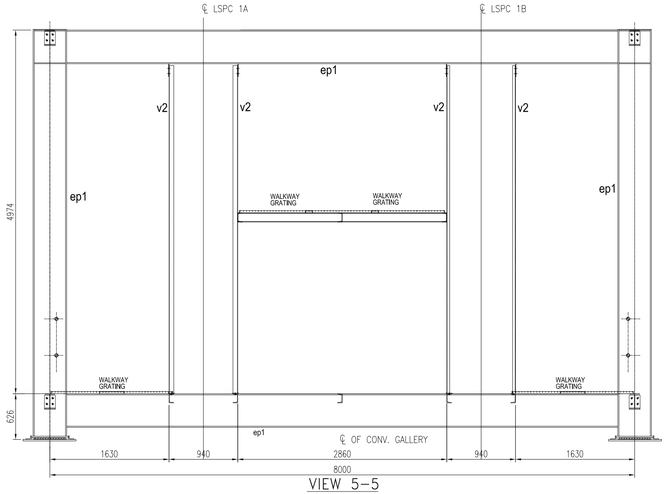
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

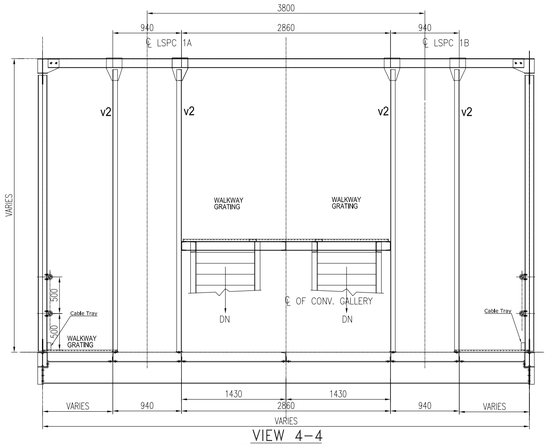
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 16 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES: BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY: SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
SYSTEM: ANNEX.: – DRAWING NO.: ---- REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

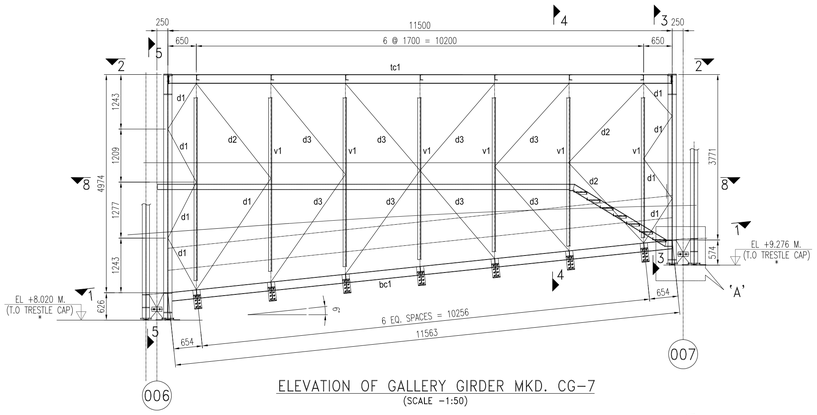


VIEW 5–5
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

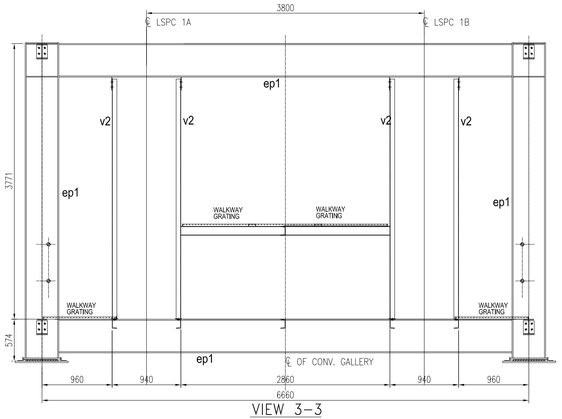


VIEW 4–4
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

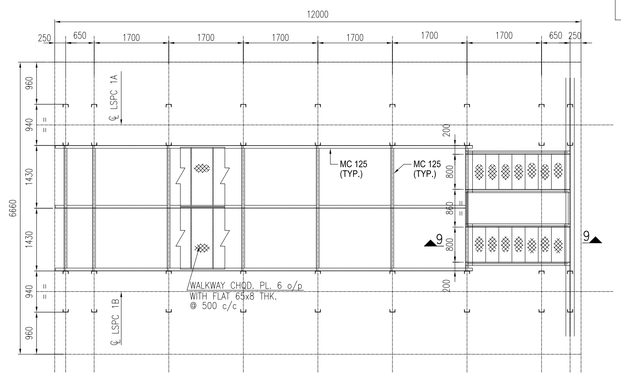
SCHEDULE OF MEMBERS FOR LSPC CG–7 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	140
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a2	L 100x100x10	80
		a1	L 90x90x8	60
		t1	ISMC 125	75
2	BOTTOM CHORD	bc1	UB 203x133x25	120
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8	120
	CROSS BEAM	CB1	UB 305x165x40	45
3	VERTICAL	v1	ISMC 125	90
		v2	ISMC 125	10
4	DIAGONAL	d1	2Ls 65x65x6	70
		d2	2Ls 100x100x10	90
		d3	2Ls 90x90x8	70
5	END PORTAL	ep1	UB 457x191x82	300
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			



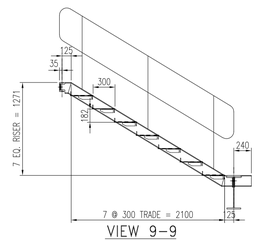
ELEVATION OF GALLERY GIRDER MKD. CG–7
(SCALE –1:50)



VIEW 3–3
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

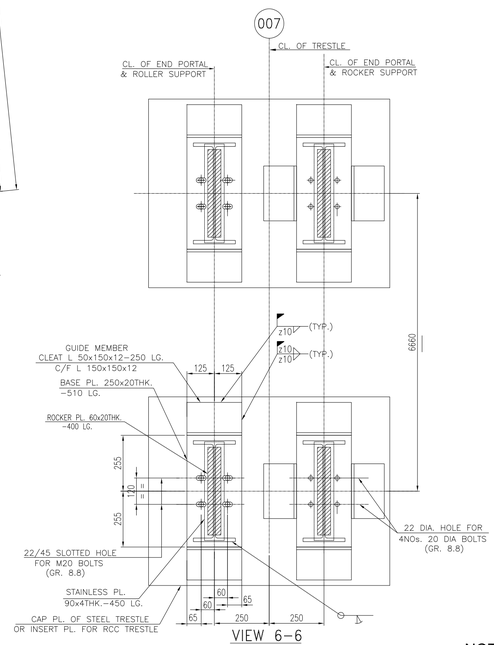


VIEW 8–8
PLAN AT CENTRAL WALKWAY LEVEL EL. (+) 11.120 M
(SCALE –1:50)

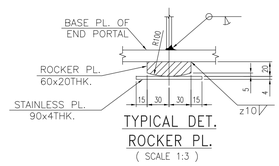


VIEW 9–9

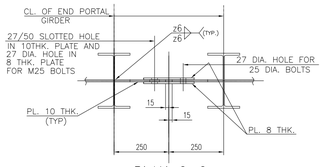
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



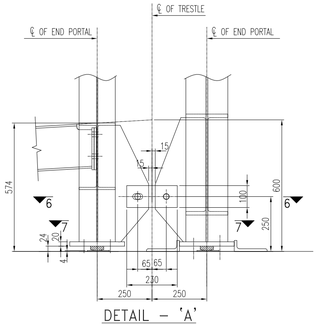
VIEW 6–6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



PLAN 6–6
(SCALE 1:10)



DETAIL – 'A'
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN.	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 17 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: ----
REV.: 0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618–450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Geprf.	Contact:	%SACHBE%

-		E	-
-		D	-
-		C	-
-		B	-
-		A	-

ISO 14405	Ind	Modification	Ref.: -
ISO 13920-A/E		Origin	

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA OF GALLERY MKD. CG-7/12
LSPC 1A/1B

Drawing No.
S18_45068_LSPC 1AB_LD_008

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Scale
nts
Sheet/of 1 / 1

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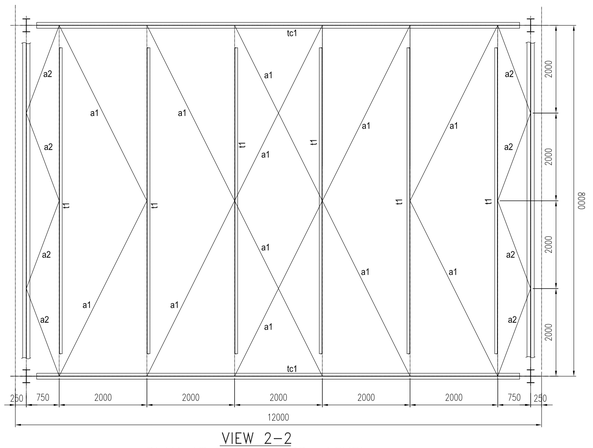
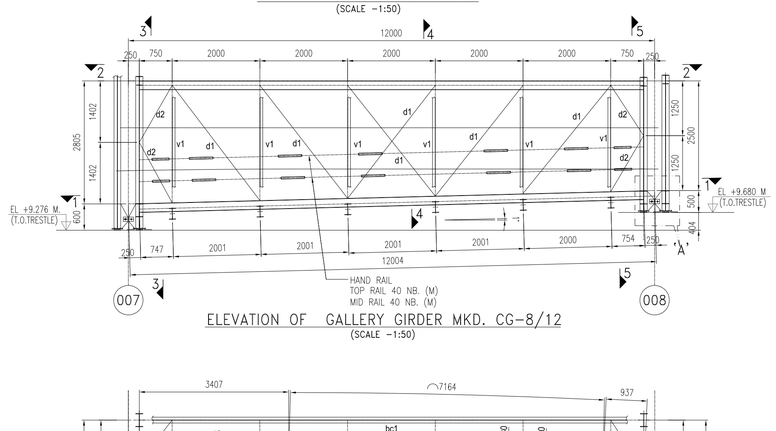
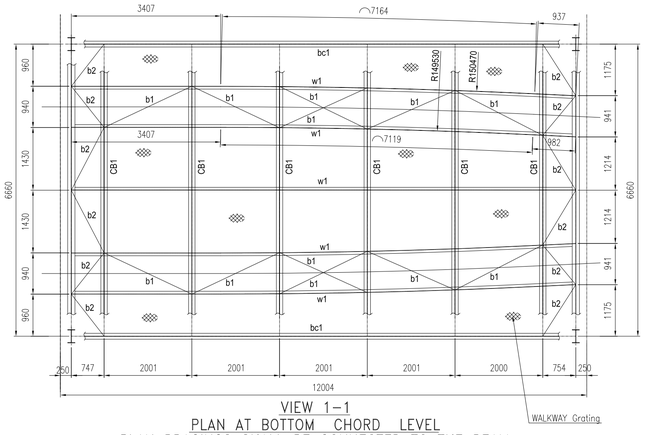
Replaced by -



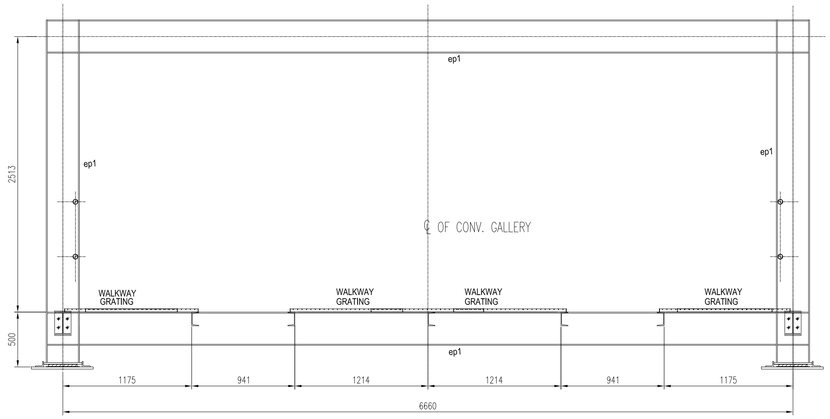
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



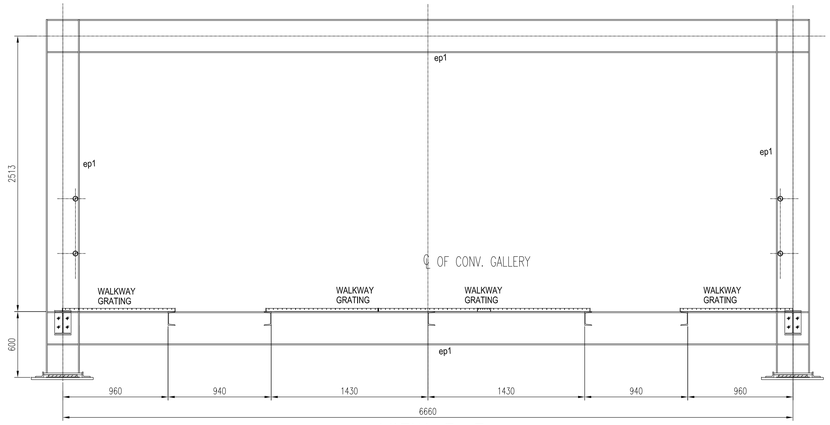
ELEVATION OF GALLERY GIRDER MKD. CG-8/12
(SCALE -1:50)



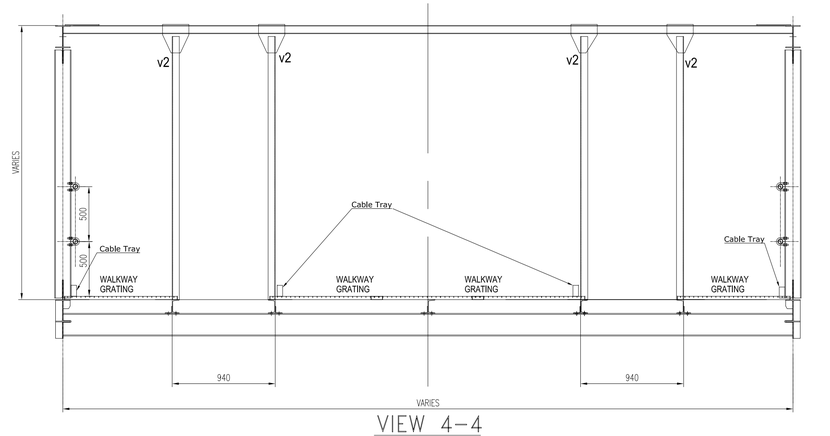
VIEW 1-1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE -1:50)



VIEW 5-5



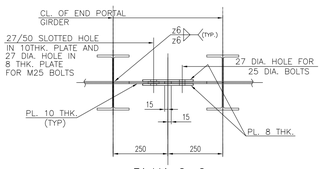
VIEW 3-3



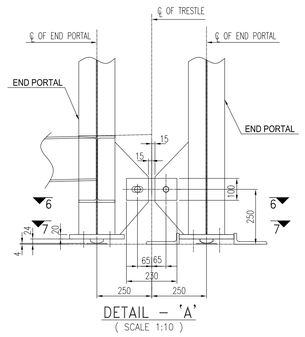
VIEW 4-4
v2 (ISMC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	40
		a2	L 75x75x8	30
		t1	ISMC 125	30
2	BOTTOM CHORD	bc1	UB 203x133x25	110
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8	60
		b2	L 75x75x8	30
	CROSS BEAM	CB1	UB 254x146x31	40
3	VERTICAL	v1	ISMC 125	55
		v2	ISMC 125	10
4	DIAGONAL	d1	2Ls 65x65x6	120
		d2	L 75x75x8	80
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	40
7	FLOOR PL.	GRATING		
	GST. PLATE. 8THK.			

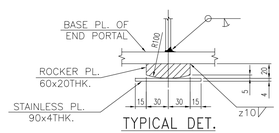
VIEW 7-7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



PLAN 6-6
(SCALE 1:10)



DETAIL - 'A'
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%AT%	Order,No.: 618-450068		
Basu	13/08/2019	Issued	Tech.Pos.: -	Designation	STRUCTURAL GA OF GALLERY MKD. CG-8/12
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%		LSPC 1A/1B
-		E	-	Drawing No.	S18_45068_LSPC 1AB_LD_009
-		D	-		
-		C	-		
-		B	-		
-		A	-	Scale	nts
ISO 14405		Ind	Modification Ref.: -	Sheet/of	1 / 1
ISO 13920-A/E			Origin	- Replacement for	Replaced by -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	-	16.07.2019
CHD	-	16.07.2019
APPD	-	

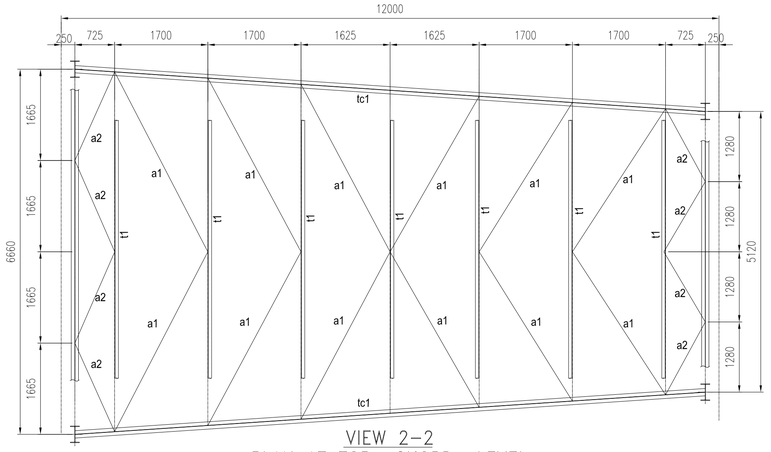
PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 18 OF 54

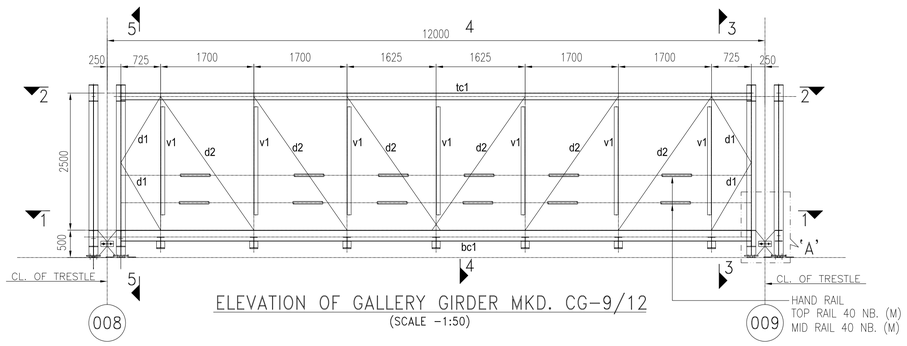
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES		BHEL JOB NO.: -	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068
SYSTEM		ANNEX.: - DRAWING NO.: ----	REV.: 0

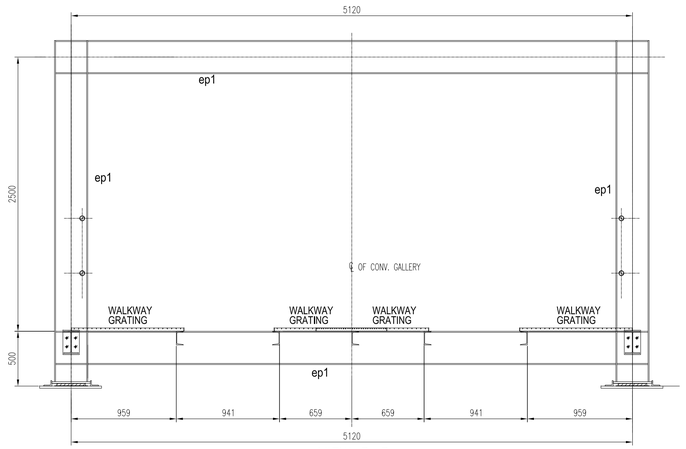
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG



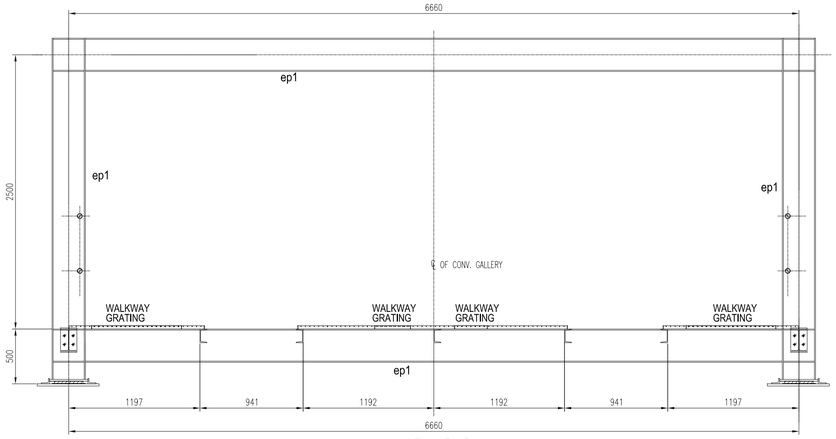
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



ELEVATION OF GALLERY GIRDER MKD. CG–9/12
(SCALE –1:50)

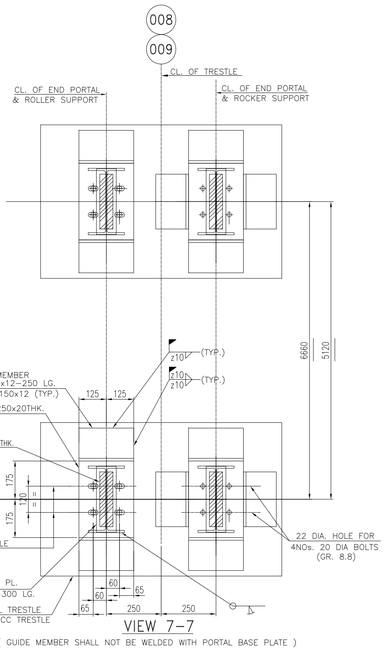


VIEW 3–3

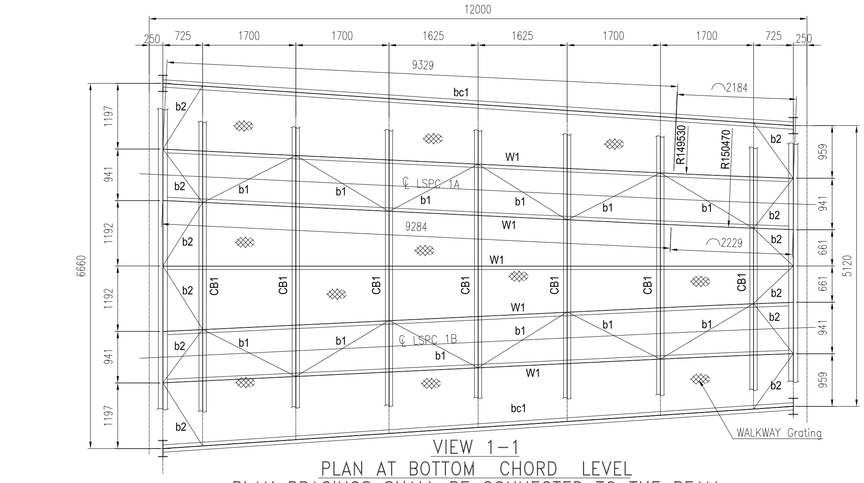


VIEW 5–5

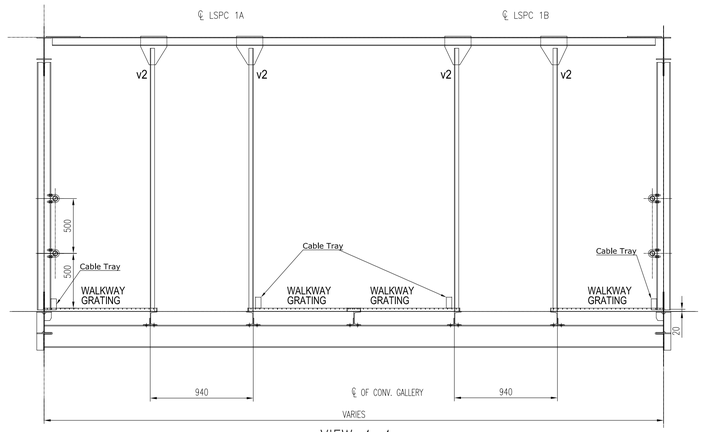
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	25
		a2	L 75x75x8 ⌜	25
		t1	ISMC 125 ⊏	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	50
		b2	L 65x65x6 ⌜	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150 ⊏	50
		v2	ISMC 75 ⊏	80
4	DIAGONAL	d1	L 75x75x8 ⌜	95
		d2	2Ls 65x65x6 ⌶	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125 ⊏	145
7	FLOOR PL.	6 O/P CHEQ. PL.		
	GST. PLATE 8THK.			



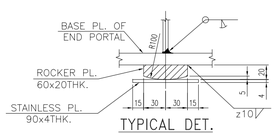
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



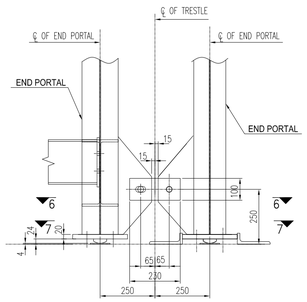
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



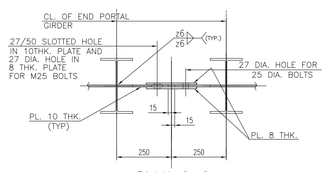
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/06/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

ISO 14405 ⓓ ISO 13920-AAE

Ind	Modification	Ref.: -
E	-	
D	-	
C	-	
B	-	
A	-	

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-9/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_010

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Scale: nts

Sheet/of 1 / 1

+ Replacement for + Replaced by +

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

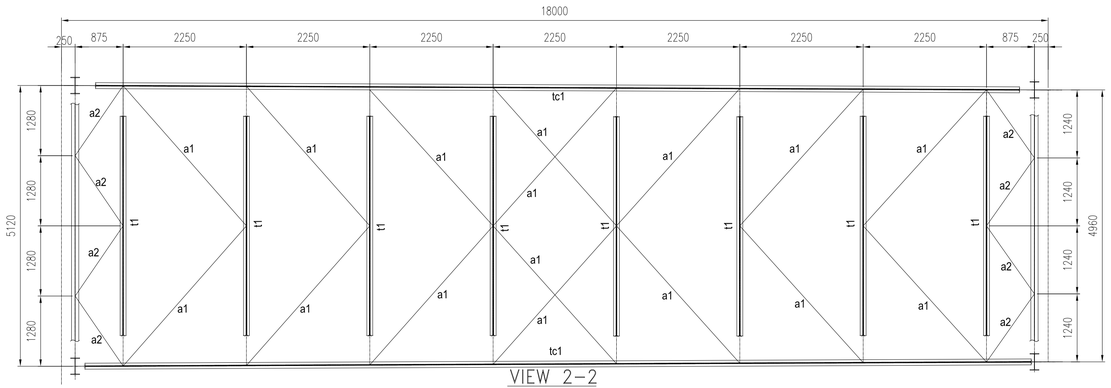
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 19 OF 54

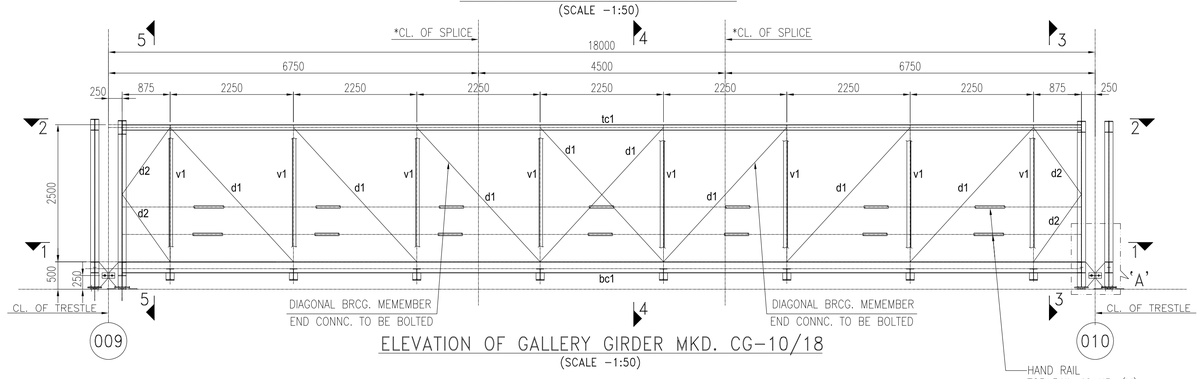
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

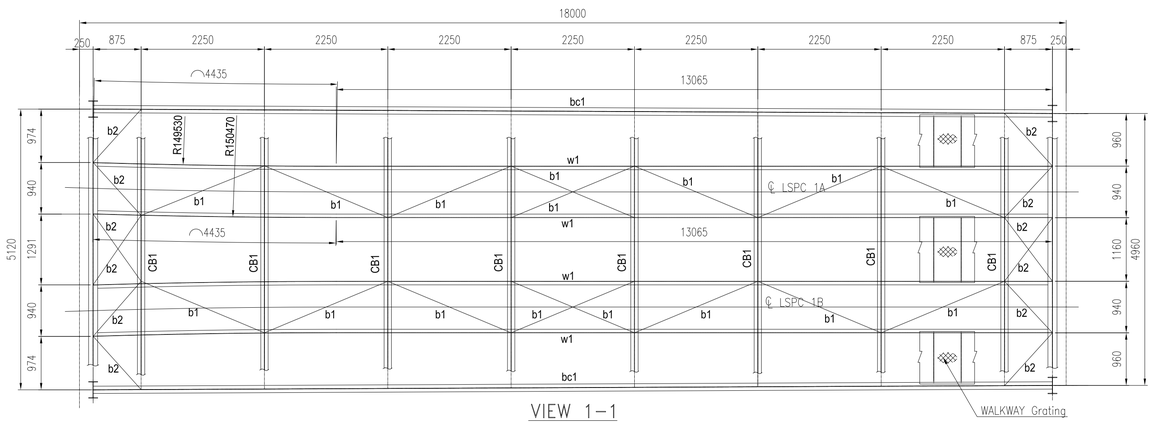
STATUS OF DRG.: FOR APPROVAL | PROJECT NO.: 618–450068 | REV.: 0



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

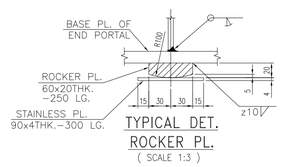


ELEVATION OF GALLERY GIRDER MKD. CG–10/18
(SCALE –1:50)

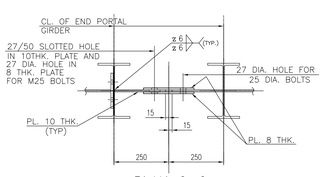


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

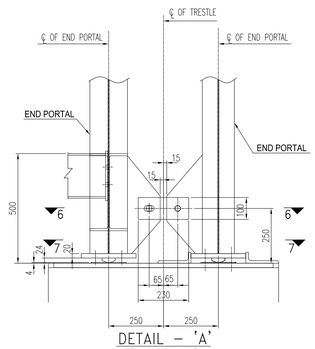
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



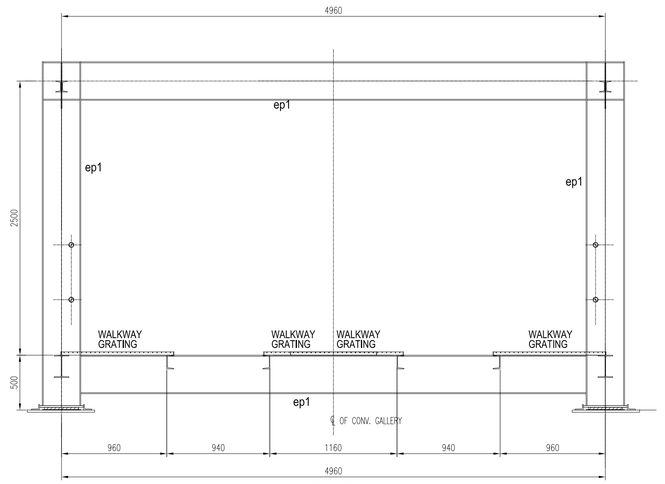
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



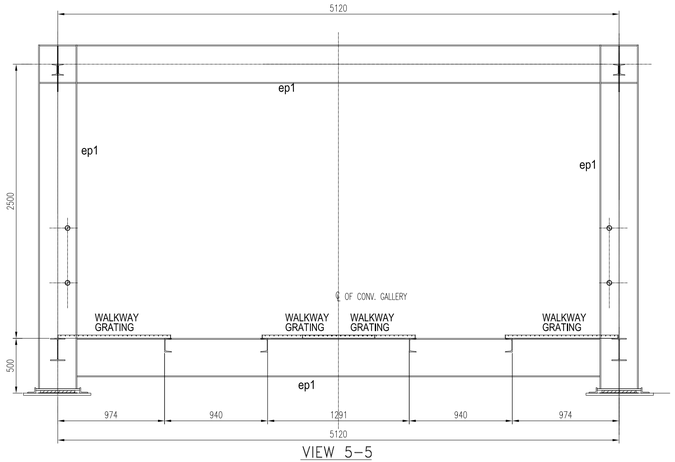
PLAN 6–6
(SCALE 1:10)



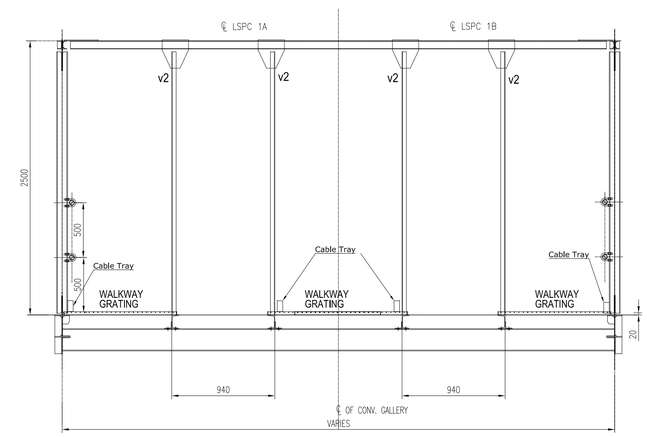
DETAIL – 'A'
(SCALE 1:10)



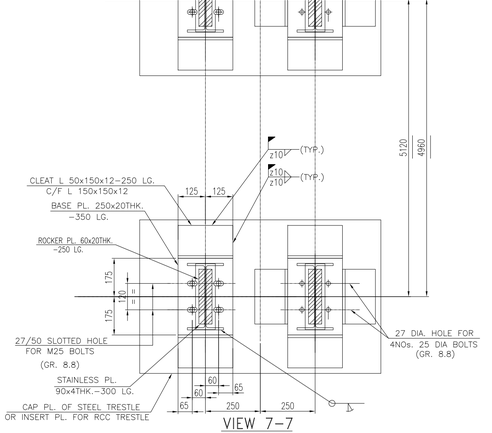
VIEW 3–3



VIEW 5–5



VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR LSPC 18 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 100	200
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	80
		a2	L 75x75x8	50
		t1	2 ISMC 100	50
2	BOTTOM CHORD	bc1	UB 203x133x25	100
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 100x100x8	120
		b2	L 75x75x8	110
	CROSS BEAM	CB1	UB 203x133x25	60
3	VERTICAL	v1	ISMC 125	100
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	190
		d2	L 75x75x8	110
5	END PORTAL	ep1	UB 305x165x40	110
6	WALK WAY STRINGER	w1	ISMC 125	100
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/06/2019	Issued	Tech.Pos.: -
Mallick	14/06/2019	Gen.	Contact: %SACHBE%
-		E	-
-		D	-
-	-	C	-
-	-	B	-
-	-	A	-

ISO 14405 ⓔ ⓓ Ind. Modification Ref.: -
ISO 13920-AVE Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-10/18 LSPC 1A/1B

Drawing No.: S18-45068-LSPC-1AB-LD-011

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Scale: nts
Sheet/of 1 / 1
Replacement for: -
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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

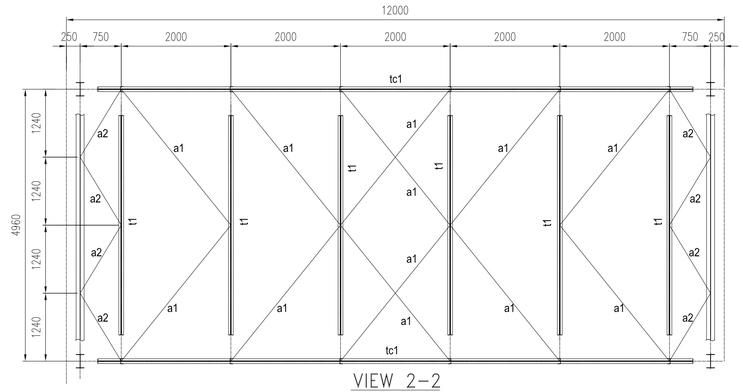
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

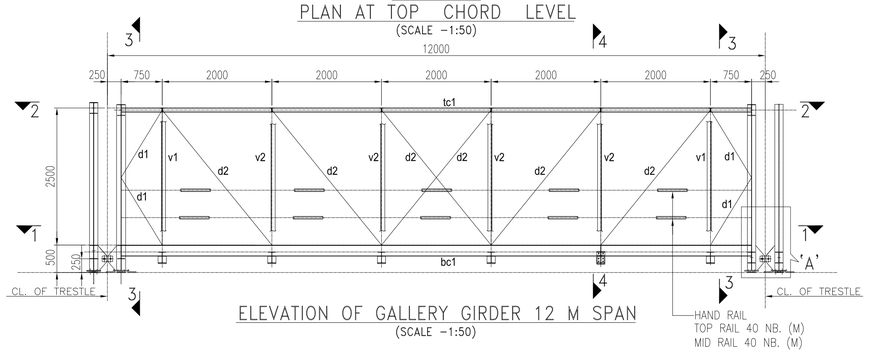
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 20 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

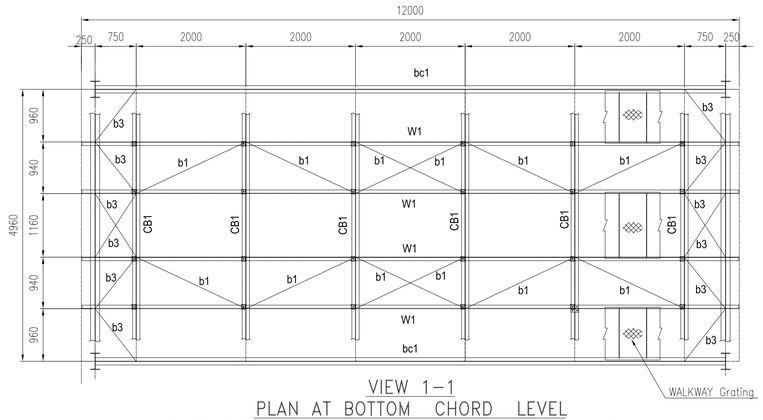
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
REV.: 0



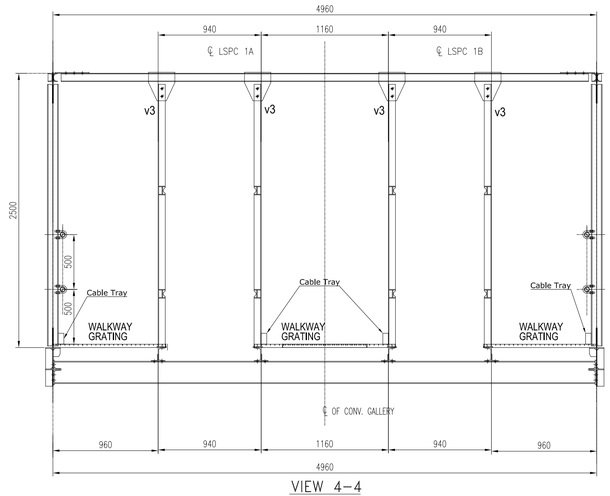
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



ELEVATION OF GALLERY GIRDER 12 M SPAN
(SCALE –1:50)

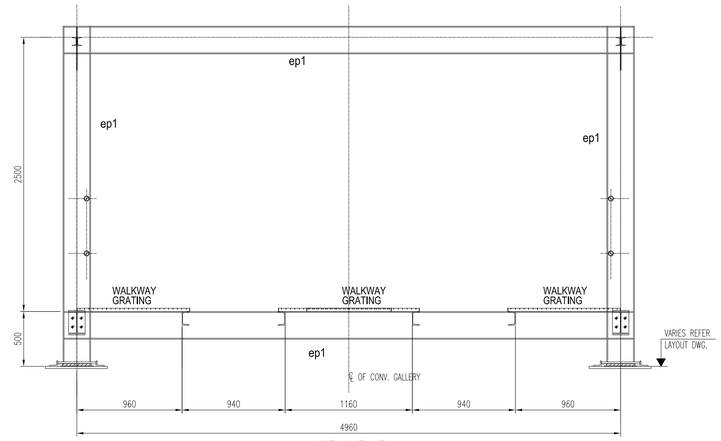


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

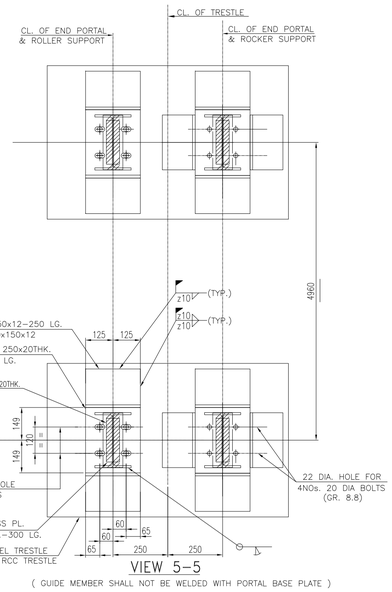


VIEW 4–4

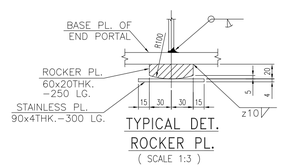
v3 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



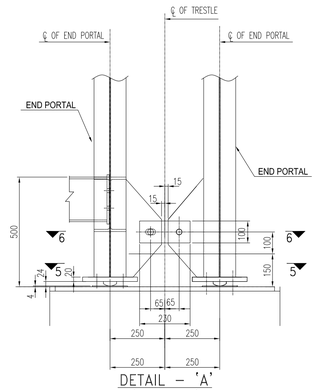
VIEW 3–3



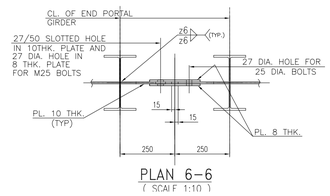
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 75	130
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	50
		a2	L 65x65x6	30
		t1	2 ISMC 75	25
2	BOTTOM CHORD	bc1	UB 203x133x25	150
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	140
		b2	NOT IN USED	
		b3	L 65x65x6	80
	CROSS BEAM	CB1	UB 203x133x25	40
3	VERTICAL	v1	ISMC 100 +2–75x6 THK. PL.	45
		v2	ISMC 100	45
		v3	L 65x65x5	10
4	DIAGONAL	d1	2Ls 65x65x6	65
		d2	2Ls 50x50x6	100
5	END PORTAL	ep1	UB 254x146x31	150
6	WALK WAY STRINGER	W1	ISMC 125	120
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/06/2019	Issued	Tech.Proc.:	-
Mallick	14/06/2019	Gen.	Contract:	%SACHBE%

-		E	-
-		D	-
-		C	-
-		B	-
-		A	-

ISO 14405 ⓔ ⧈ | Ind | Modification | Ref.: -
ISO 13920-AE | Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF 12 M STANDARD GALLERY LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_012

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Scale: nts
Sheet/of 1 / 1
+ Replacement for - | Replaced by -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

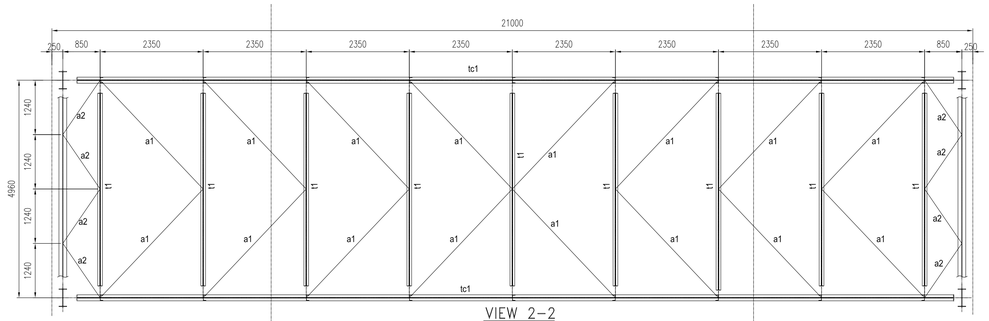
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 21 OF 54

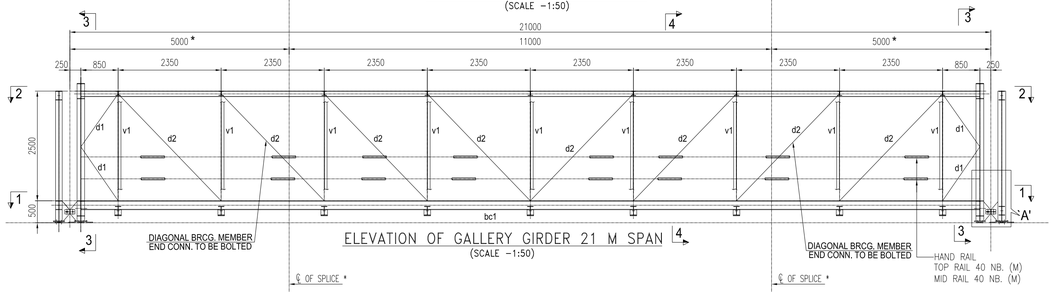
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.: 0

CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

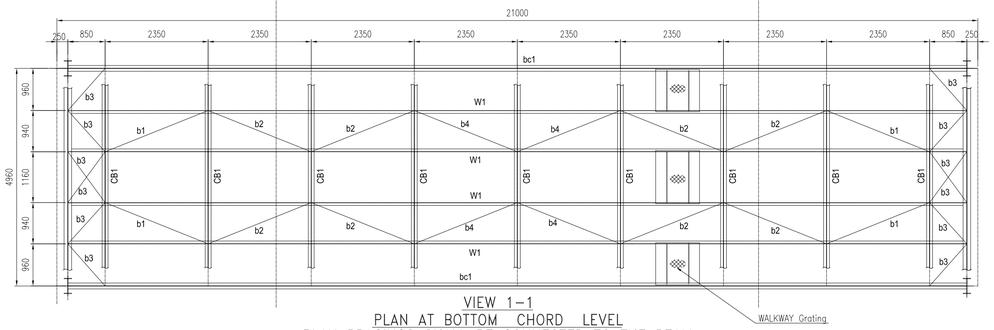


VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



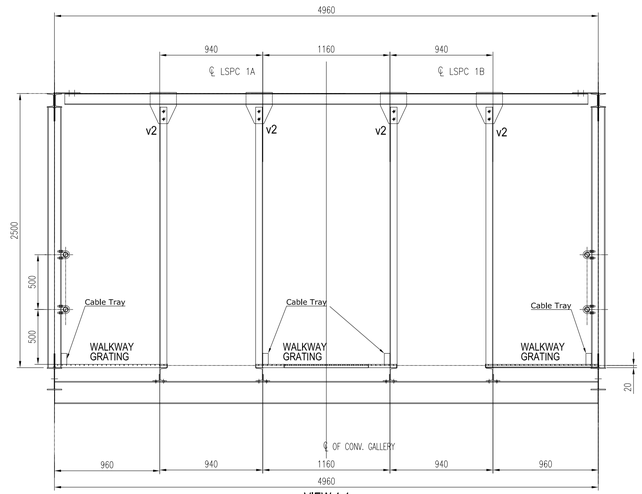
ELEVATION OF GALLERY GIRDER 21 M SPAN
(SCALE –1:50)

℄ OF SPLICE *
℄ OF SPLICE *



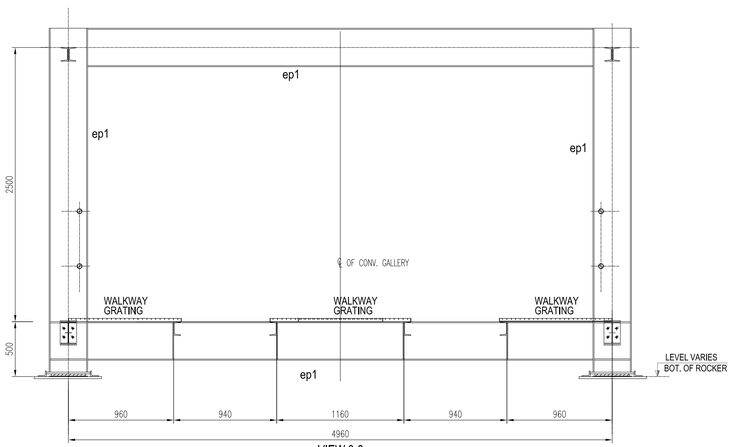
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT

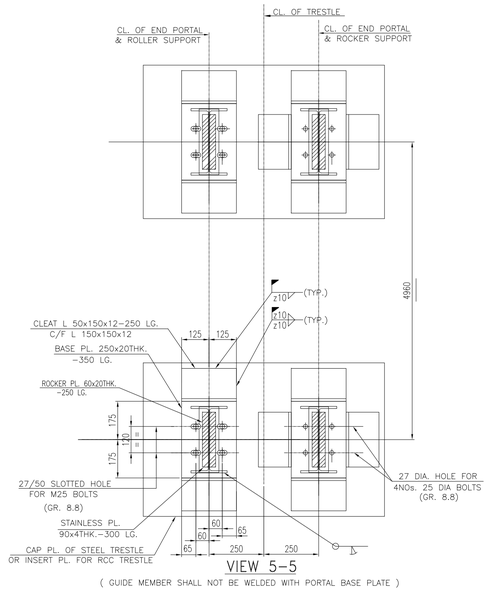


VIEW 4-4

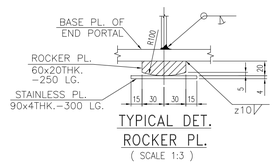
v2 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



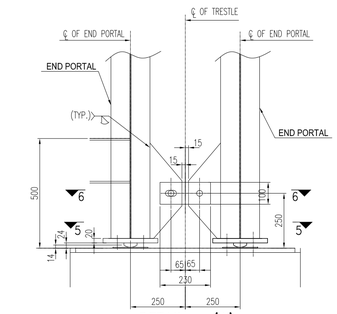
VIEW 3-3



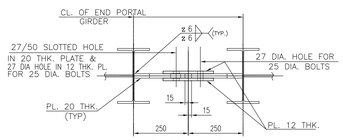
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 125	250
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	80
		a2	L 75x75x8	50
		t1	2 ISMC 100	60
2	BOTTOM CHORD	bc1	UB 203x133x25	110
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 100x100x8	140
		b2	L 90x90x8	90
		b3	L 75x75x8	150
		b4	L 65x65x6	25
	CROSS BEAM	CB1	UB 203x133x25	90
3	VERTICAL	v1	ISMC 125	120
		v2	L 65x65x5	10
4	DIAGONAL	d1	2Ls 75x75x8	130
		d2	2Ls 65x65x6	220
5	END PORTAL	ep1	UB 305x165x40	130
6	WALK WAY STRINGER	W1	ISMC 125	150
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ℄ ISO 13920-A/E

Ind	Modification	Ref.: -
E	-	
D	-	
C	-	
B	-	
A	-	
	Origin	

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF 21 M STANDARD GALLERY LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_013

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Scale: nts
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Replacement for: -
Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

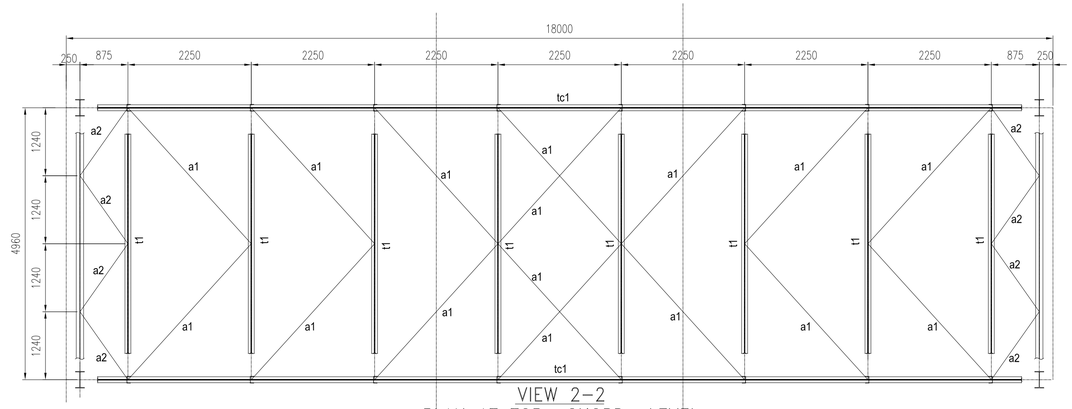
CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

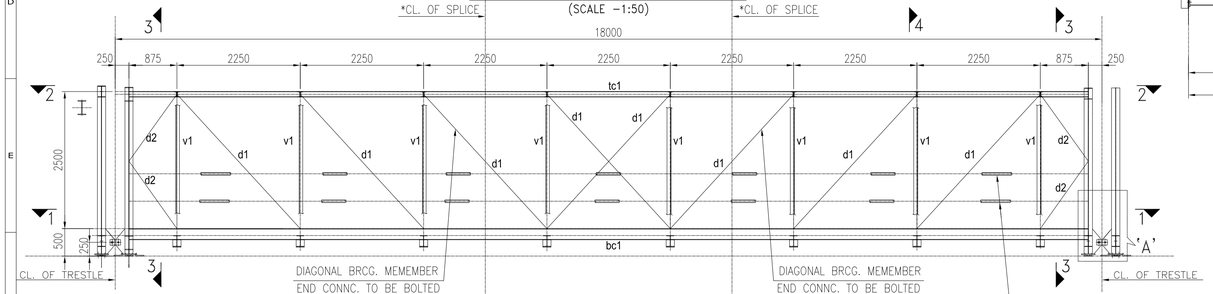
	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 22 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

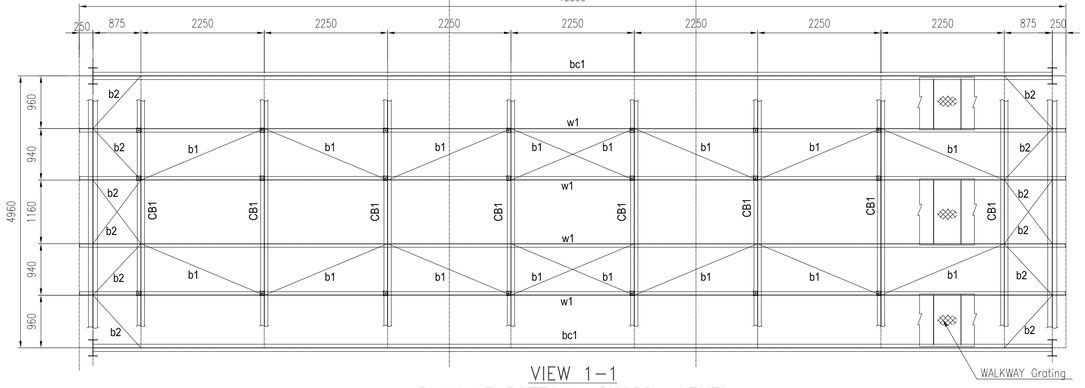
SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: -----	REV.: 0
CUSTOMER DRAWING NO.:		Maitree–00–UED–LC–177353–ISG	



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

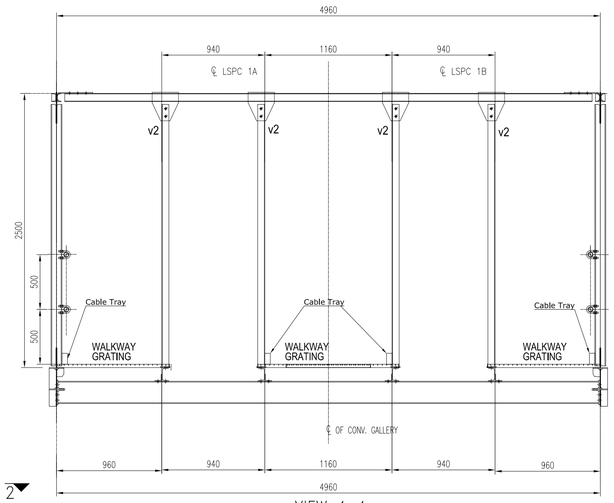


ELEVATION OF GALLERY GIRDER 18 M SPAN
(SCALE –1:50)

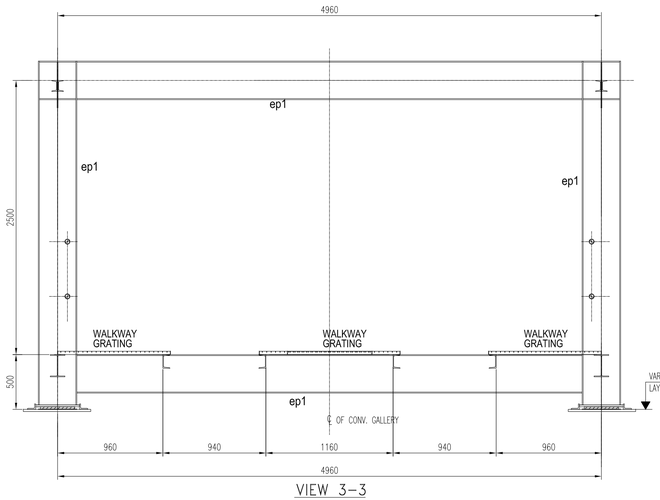


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

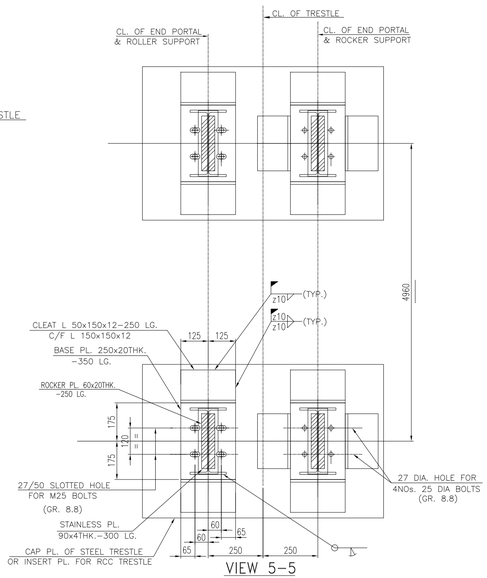
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



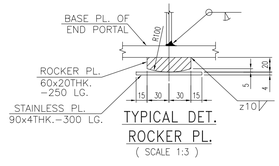
VIEW 4–4
v2 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



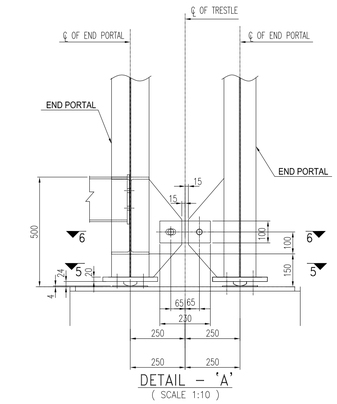
VIEW 3–3



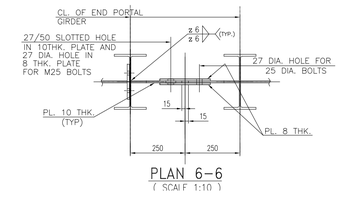
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 18 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 100	200
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	80
		a2	L 75x75x8	50
		t1	2 ISMC 100	50
2	BOTTOM CHORD	bc1	UB 203x133x25	100
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 100x100x8	120
		b2	L 75x75x8	110
	CROSS BEAM	CB1	UB 203x133x25	60
3	VERTICAL	v1	ISMC 125	100
		v2	L 65x65x5	10
4	DIAGONAL	d1	2Ls 65x65x6	190
		d2	L 75x75x8	110
5	END PORTAL	ep1	UB 305x165x40	110
6	WALK WAY STRINGER	w1	ISMC 125	100
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

ISO 14405 ISO 13920-AVE

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF 18 M STANDARD GALLERY LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_014
Scale: nts
Sheet/of 1 / 1

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

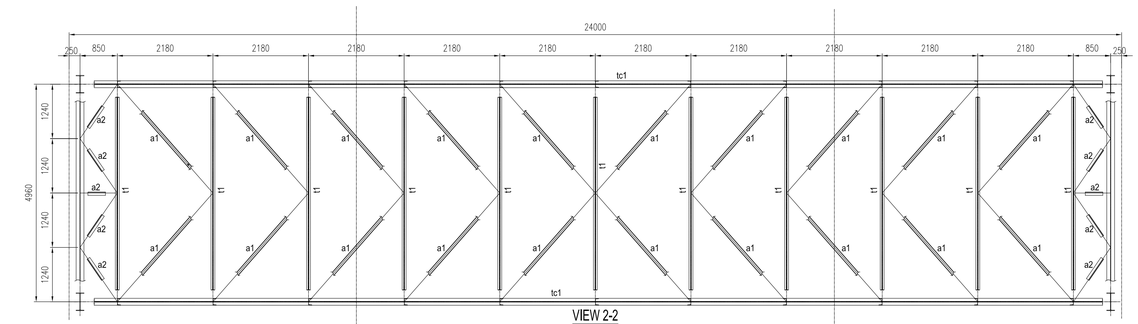
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET 23 OF 54

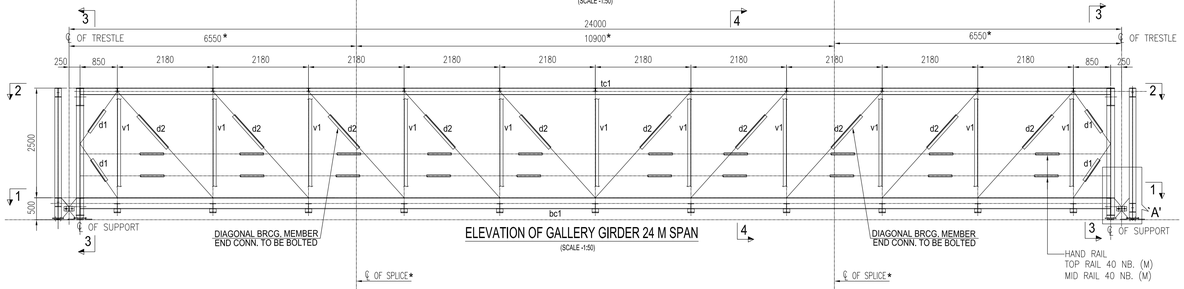
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

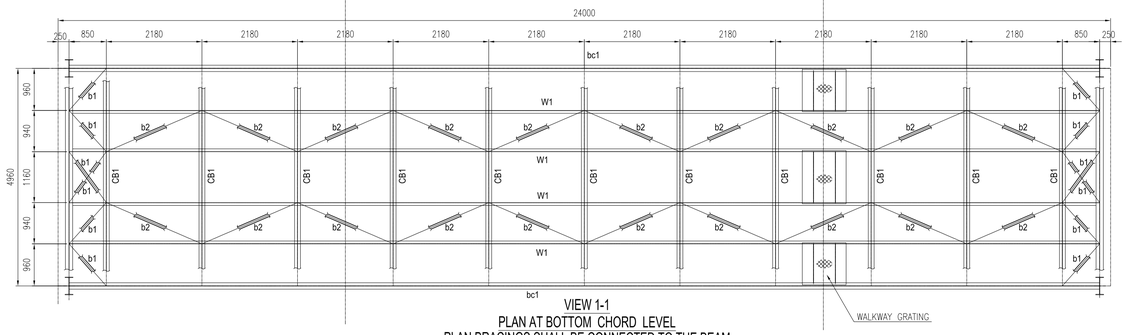
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: ----
REV.: 0



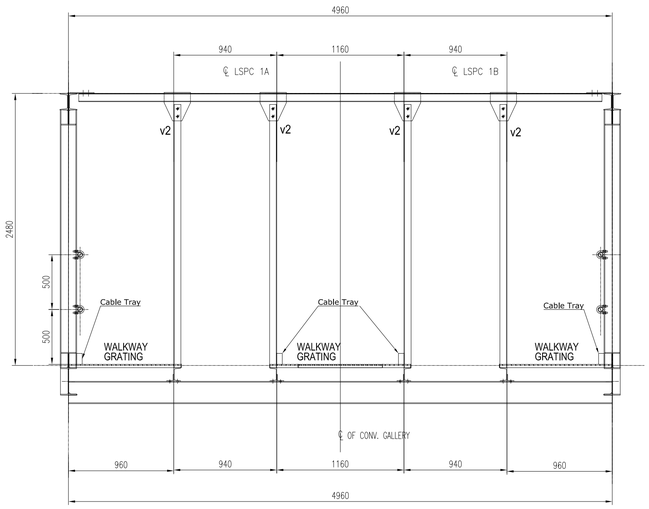
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



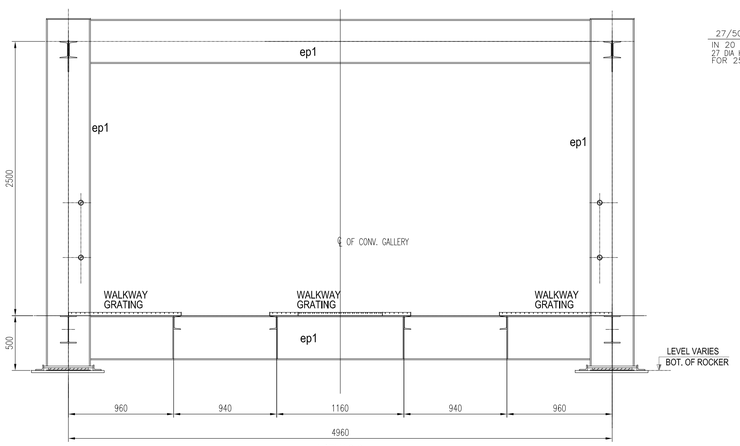
ELEVATION OF GALLERY GIRDER 24 M SPAN
(SCALE -1:50)



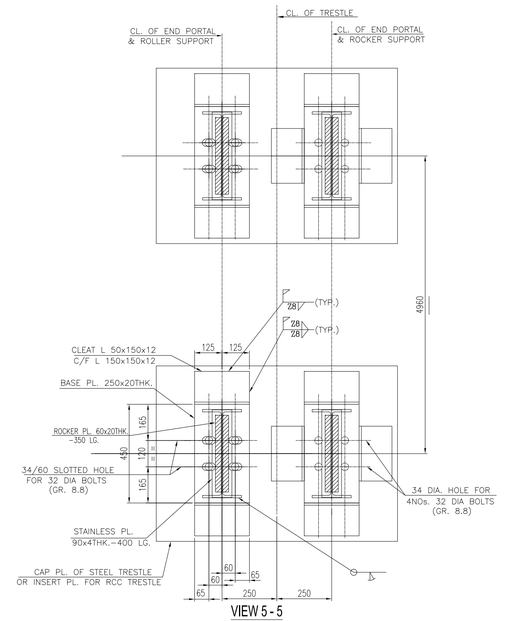
VIEW 1-1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE -1:50)
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



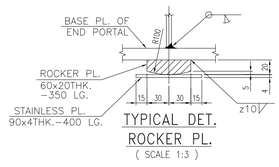
VIEW 4-4
v2 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



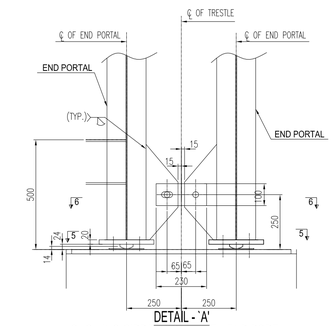
VIEW 3-3



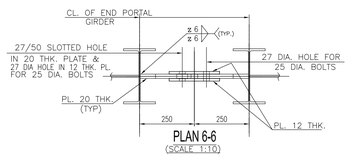
VIEW 5 - 5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



PLAN 6-6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 24 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 150	280
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	80
		a2	L 75x75x8	40
		t1	2 ISMC 75	70
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	2 ISMC 75	200
		b2		140
	CROSS BEAM	CB1	UB 203x133x25	150
3	VERTICAL	v1	ISMC 125	160
		v2	L 65x65x5	10
4	DIAGONAL	d1	2Ls 90x90x8	160
		d2	2Ls 65x65x6	250
5	END PORTAL	ep1	UB 406x178x54	130
6	WALK WAY STRINGER	W1	ISMC 125	130
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%AT%	Order.No.: 618-450068		
Basu	15/07/2019	Issued	Tech.Pos.: -	Designation	STRUCTURAL GA OF 24 M STANDARD GALLERY LSPC 1A/1B
Mallick	16/07/2019	Gepr.	Contact: %SACHBE%		
-		E	-	Drawing No.	S18_45068_LSPC 1AB_LD_015
-		D	-		
-		C	-		
-		B	-		
-		A	-	Scale	nts
ISO 14405		Ind	Modification	Ref.: -	
ISO 13920-AE			Origin	-	Replacement for - Replaced by -

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Sheet/of 1 / 1

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

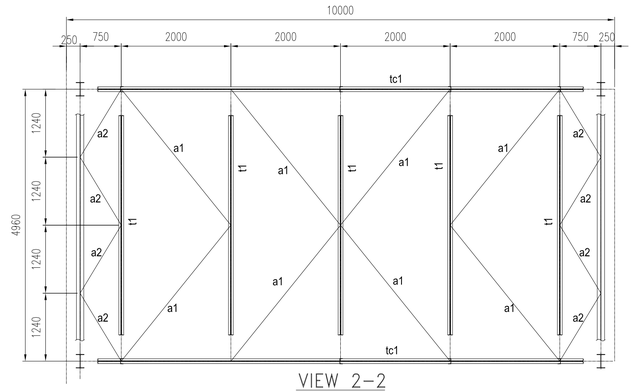
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

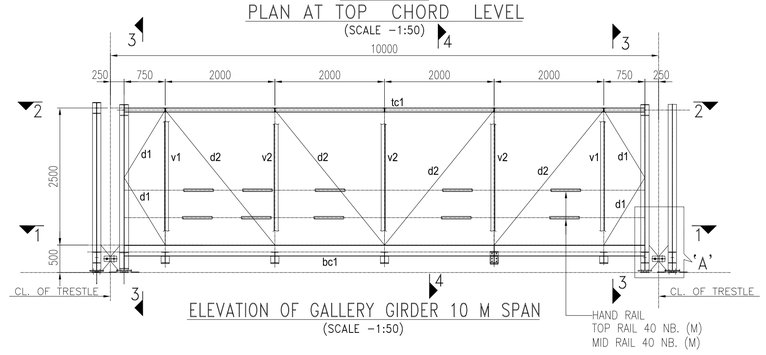
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

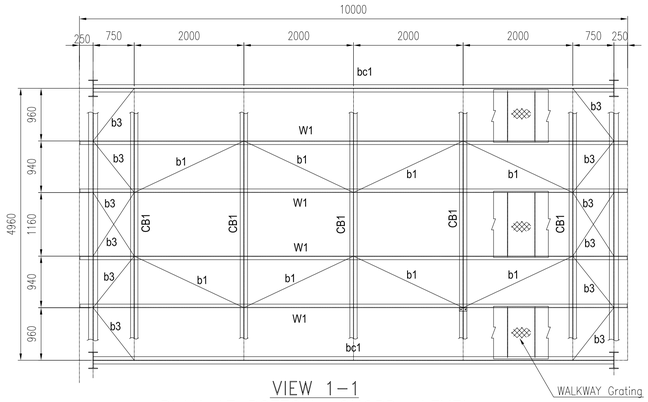
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE NTS
SHEET 24 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B
SUPERSEDES
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY
SIZE- A0 [1189 x 841]
PROJECT NO.: 618-450068
SYSTEM
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG



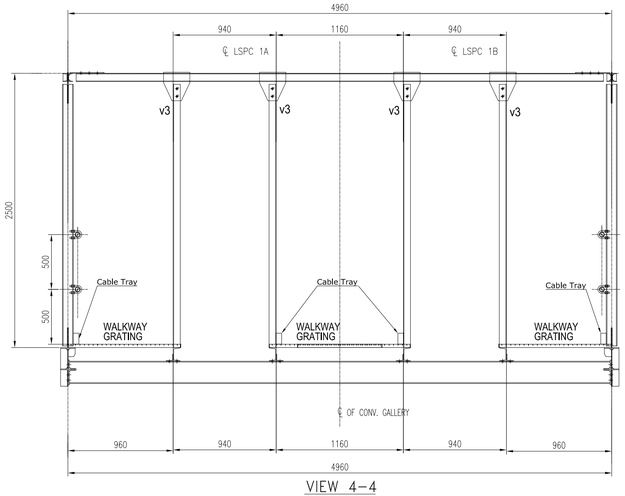
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



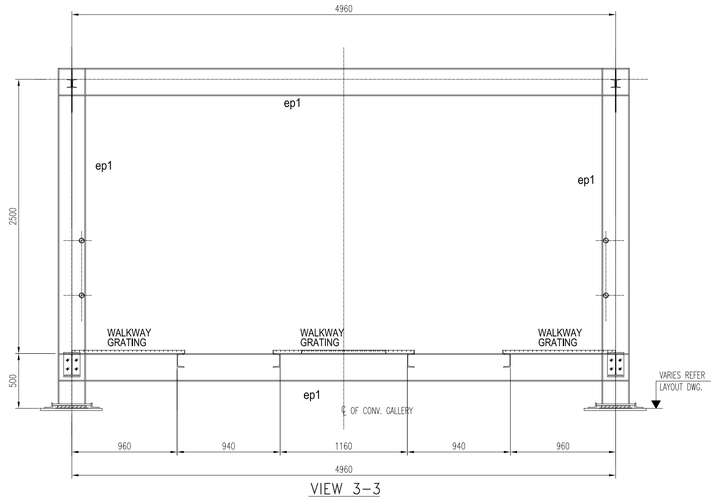
ELEVATION OF GALLERY GIRDER 10 M SPAN
(SCALE –1:50)



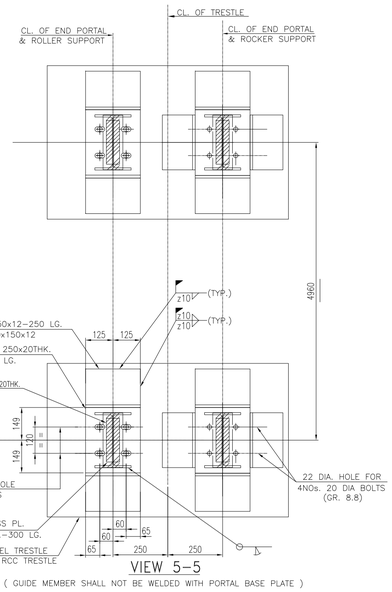
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



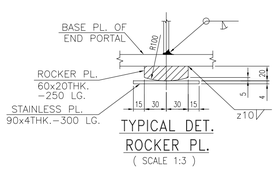
VIEW 4–4
v3 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



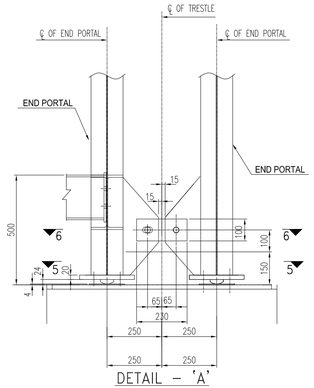
VIEW 3–3



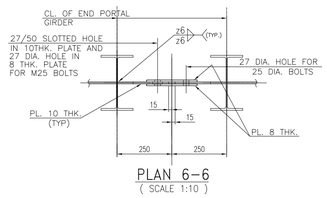
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 10 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 75	130
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	50
		a2	L 65x65x6	30
		t1	2 ISMC 75	25
2	BOTTOM CHORD	bc1	UB 203x133x25	150
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	140
		b2	NOT IN USED	
		b3	L 65x65x6	80
	CROSS BEAM	CB1	UB 203x133x25	40
3	VERTICAL	v1	ISMC 100 +2–75x6 THK. PL.	45
		v2	ISMC 100	45
		v3	L 65x65x5	10
4	DIAGONAL	d1	2Ls 65x65x6	65
		d2	2Ls 50x50x6	100
5	END PORTAL	ep1	UB 254x146x31	150
6	WALK WAY STRINGER	W1	ISMC 125	120
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/06/2019	Issued	Tech.Pos.: -
Mallick	14/06/2019	Gen.	Contract: %SACHBE%

Ind	Modification	Ref.: -
E	-	
D	-	
C	-	
B	-	
A	-	

ISO 14405 ⓓ ISO 13920-AVE

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF 10 M STANDARD GALLERY LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_016

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Scale: nts

Sheet/of 1 / 1

Replacement for: -

Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

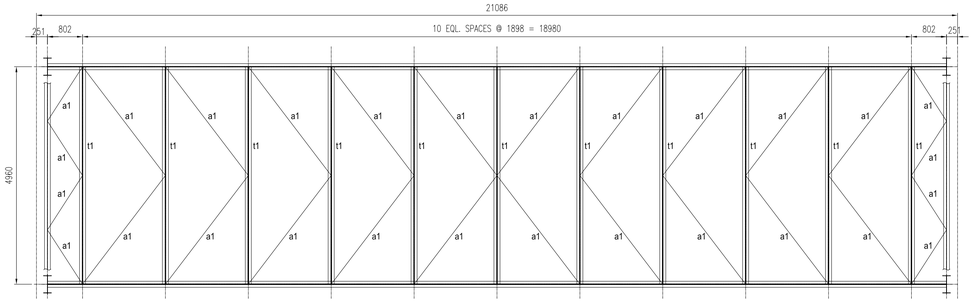
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 25 OF 54

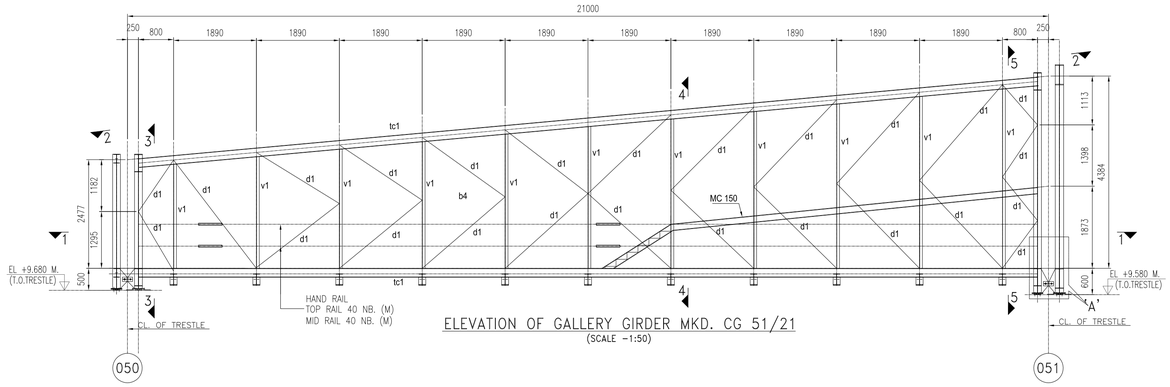
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

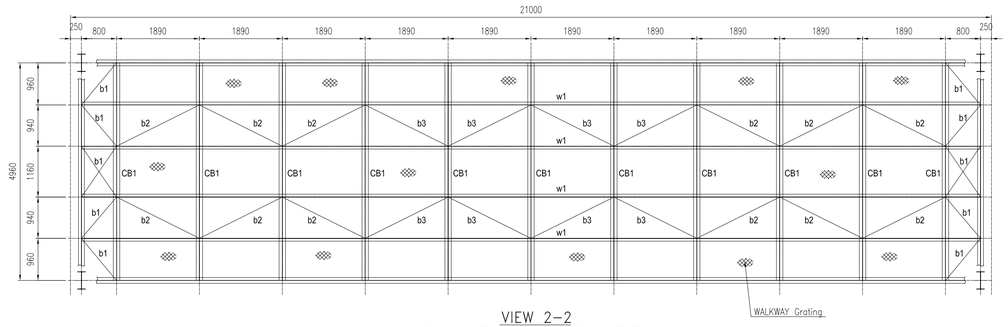
STATUS OF DRG.: FOR APPROVAL | PROJECT NO.: 618–450068 | DRAWING NO.: ---- | REV.:



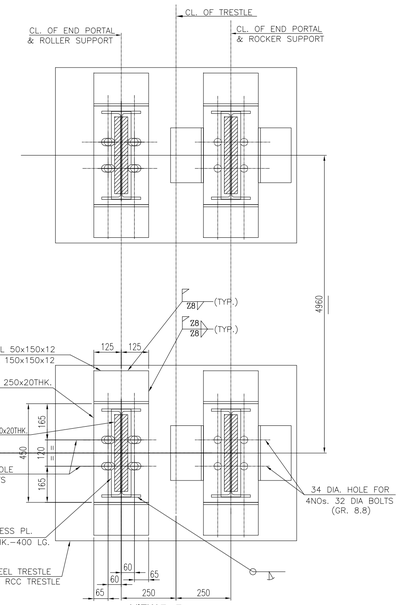
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



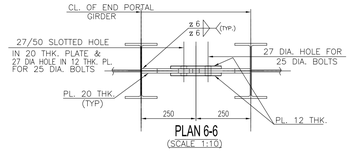
ELEVATION OF GALLERY GIRDER MKD. CG 51/21
(SCALE -1:50)



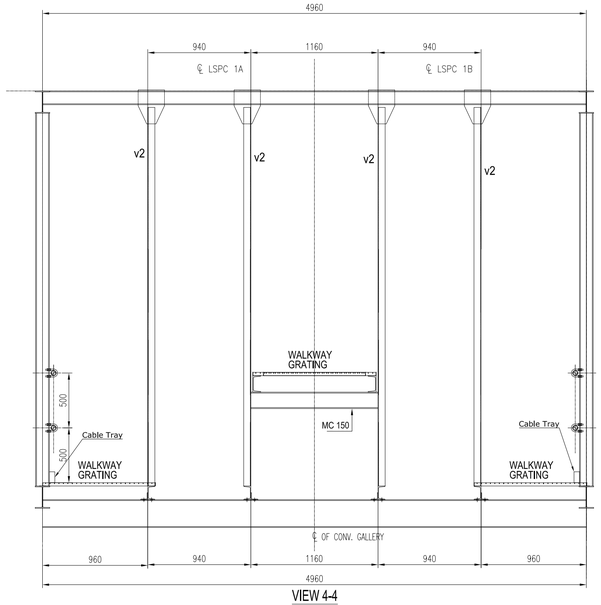
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



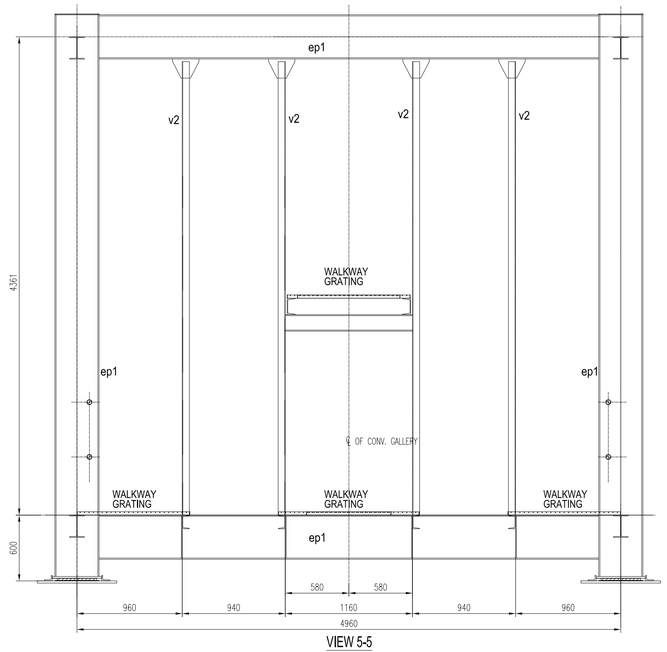
VIEW 7 - 7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



PLAN 6-6
(SCALE 1:10)

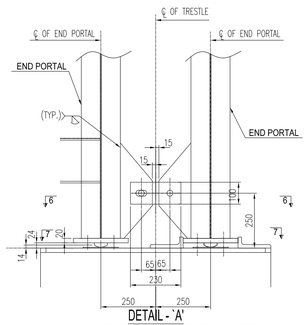


VIEW 4-4

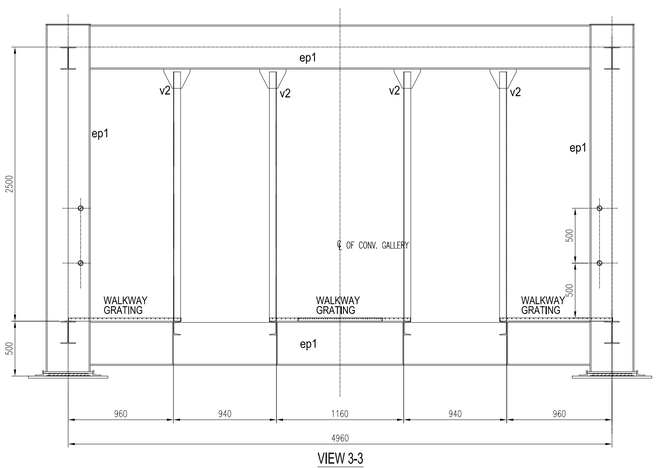


VIEW 5-5

SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25 I	360
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	60
		t1	ISMC 125 C	50
2	BOTTOM CHORD	bc1	UB 203x133x25 I	265
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	164
		b2	L 100x100x10 ⌜	110
		b3	L 90x90x8 ⌜	60
	CROSS BEAM	CB1	UB 254X146X31 I	120
3	VERTICAL	v1	ISMC 125 C	120
		v2	ISMC 125 C	20
4	DIAGONAL	d1	2L 100x100x10 ⌜	155
5	END PORTAL	ep1	UB 406X178X54 I	285
6	WALK WAY STRINGER	W1	ISMC 125 C	160
7	FLOOR PL.		GRATING	
8	GST. PLATE 8 THK.			



DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 3-3

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	15/07/2019	Issued	Tech.Pos.:	-
Mallick	16/07/2019	Gepr.	Contact:	%SACHBE%

-		E	-
-		D	-
-		C	-
-	-	B	-
		A	-
Ind	Modification	Ref.:	-

ISO 14405 ⓔ ⇔
ISO 13920-AJE
Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-51/21
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_017

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Scale: nts
Sheet/of 1 / 1
• Replacement for
• Replaced by

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

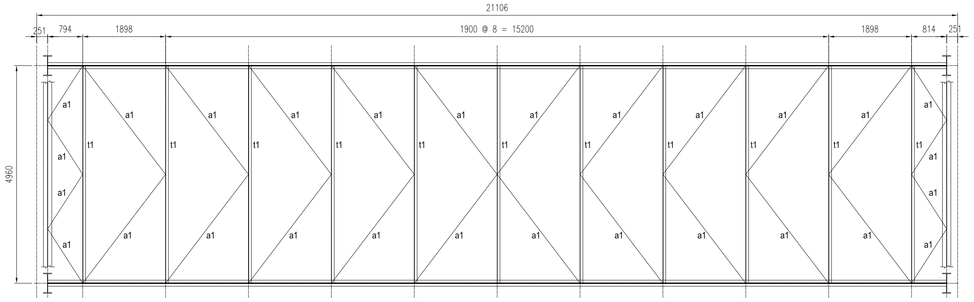
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

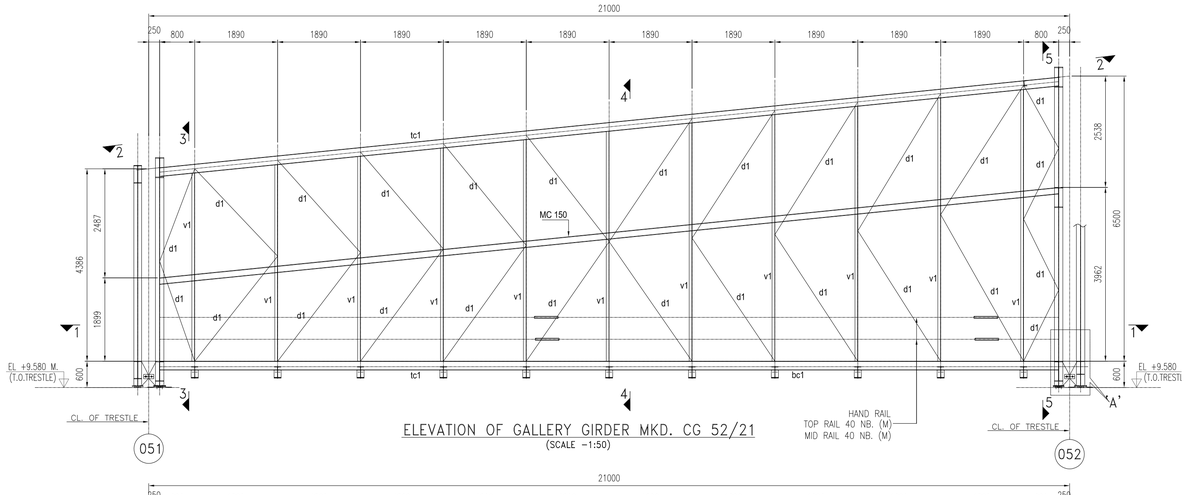
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

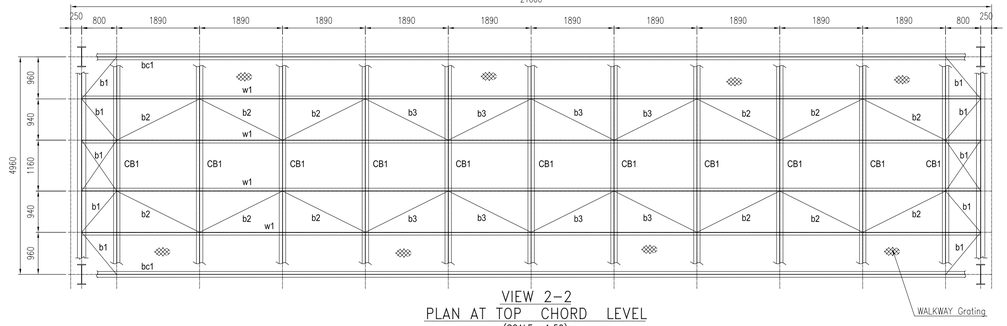
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 26 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B
SUPERSEDES
SUPERSEDED BY
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
SYSTEM
ANNEX.: –
DRAWING NO.: – – – –
REV.: 0
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-17753-ISG



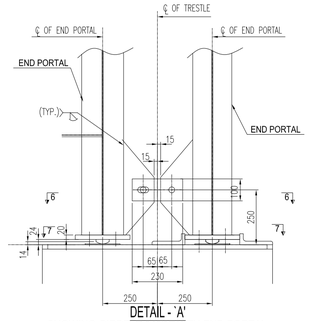
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



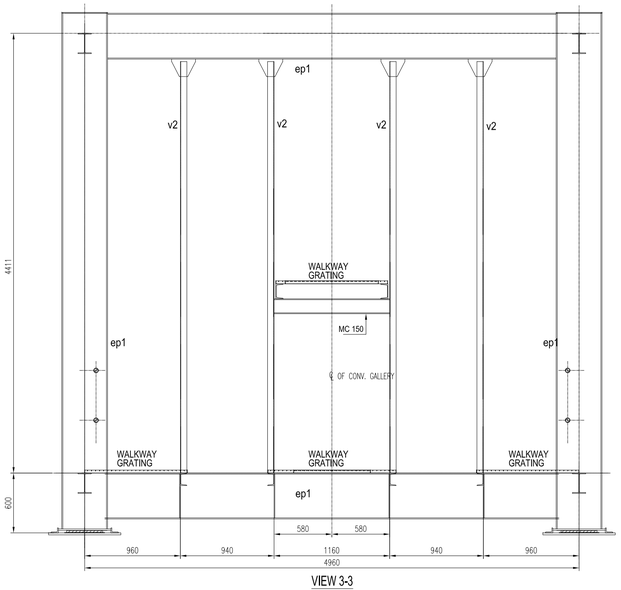
ELEVATION OF GALLERY GIRDER MKD. CG 52/21
(SCALE –1:50)



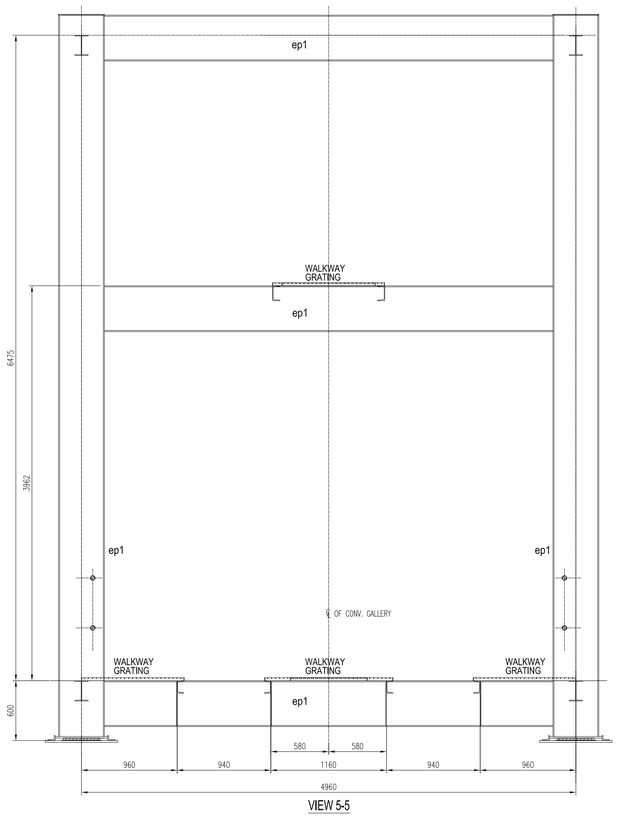
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



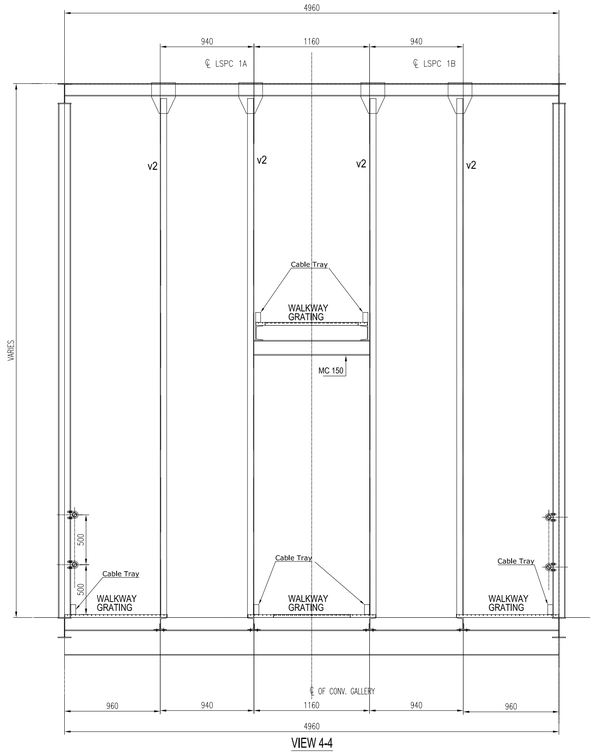
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



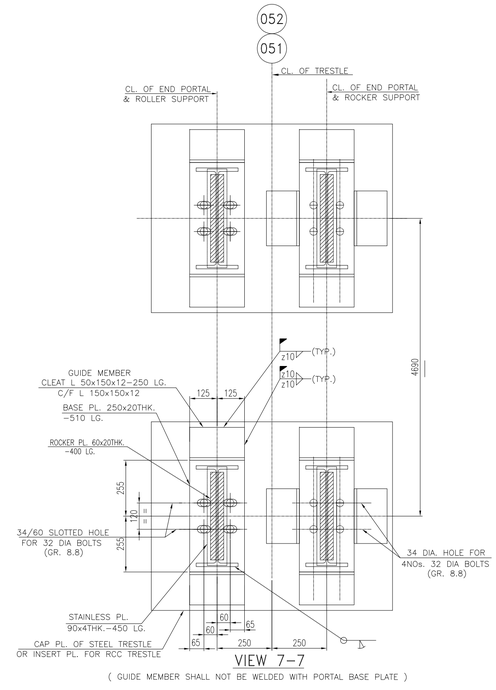
VIEW 3-3



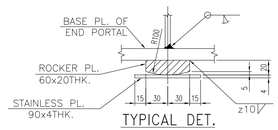
VIEW 5-5



VIEW 4-4



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25 I	360
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	95
		t1	ISMC 125 ⊏	80
2	BOTTOM CHORD	bc1	UB 203x133x25 I	200
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	160
		b2	L 100x100x10 ⌜	170
		b3	L 90x90x8 ⌜	60
	CROSS BEAM	CB1	UB 254X146X31 I	115
3	VERTICAL	v1	ISMC 125 ⊏	120
		v2	ISMC 125 ⊏	10
4	DIAGONAL	d1	2Ls 100x100x10 ⊤	125
5	END PORTAL	ep1	UB 457X191X82 I	440
6	WALK WAY STRINGER	W1	ISMC 125 ⊏	185
7	FLOOR PL.		GRATING	
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-52/21
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_018
Scale: nts
Sheet/of 1 / 1
Ind Modification Ref.: -
Origin: - Replacement for: - Replaced by: -

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ISO 14405 ⓓ ISO 13920-AE

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

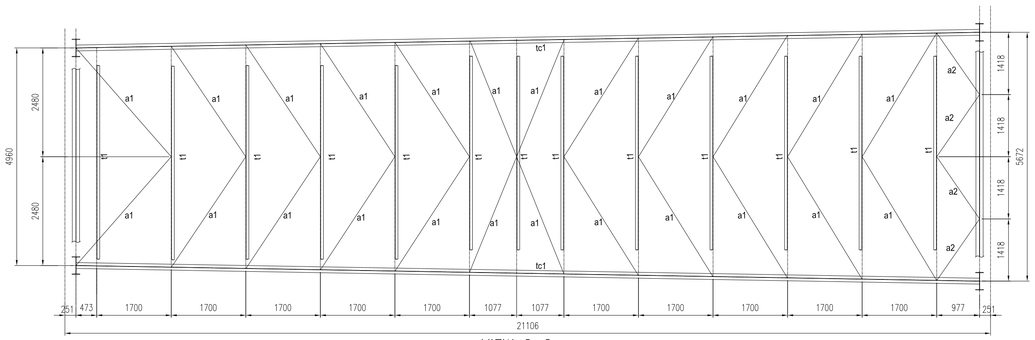
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

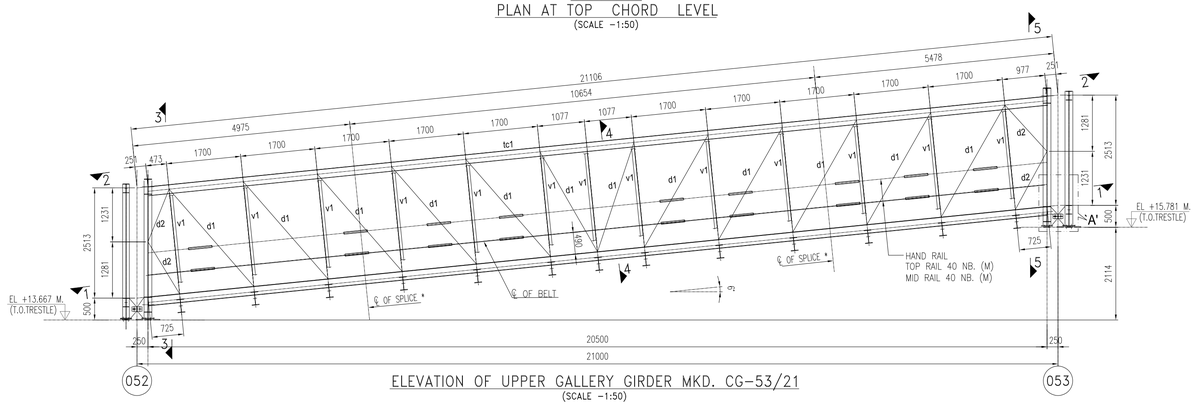
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

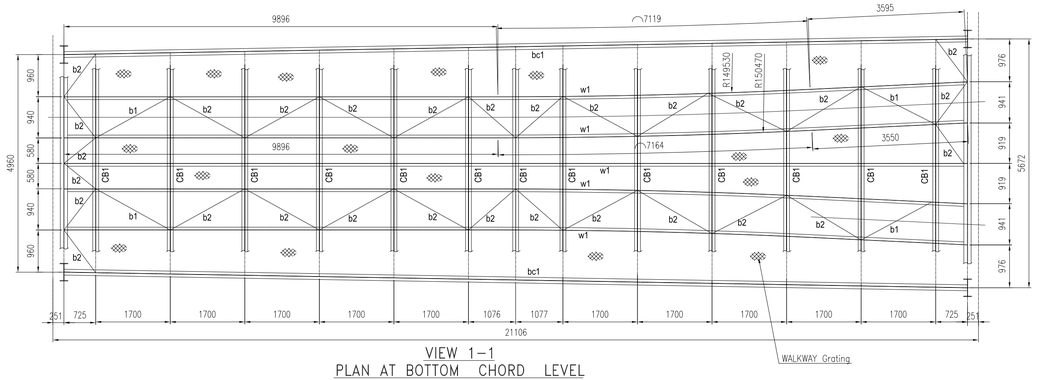
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SHEET 27 OF 54
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

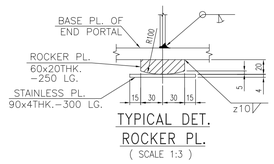


ELEVATION OF UPPER GALLERY GIRDER MKD. CG–53/21
(SCALE –1:50)

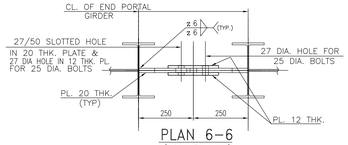


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

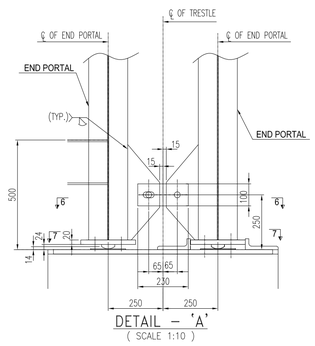
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



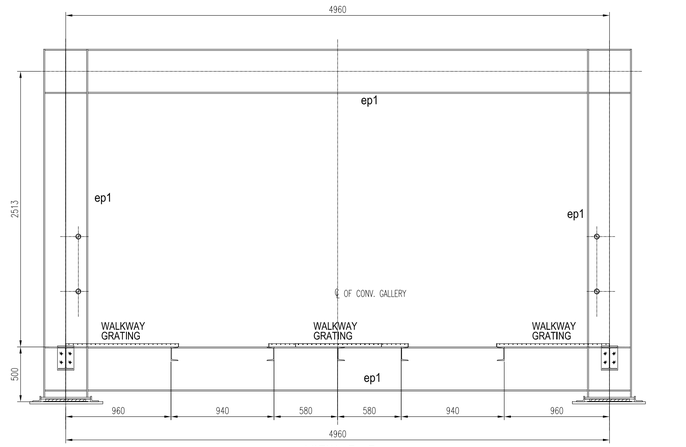
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



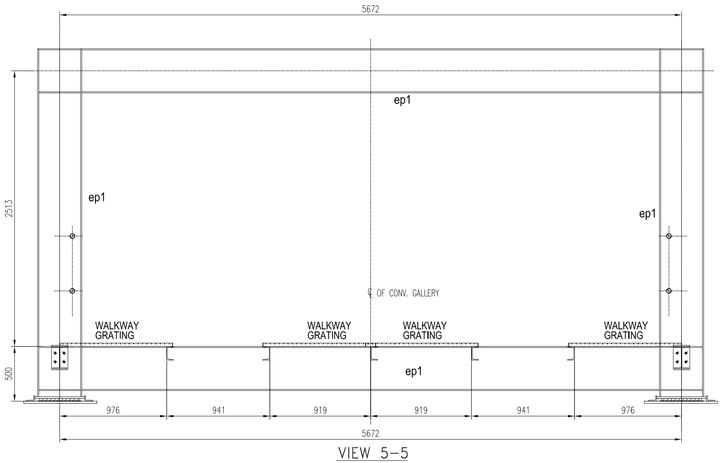
PLAN 6–6
(SCALE 1:10)



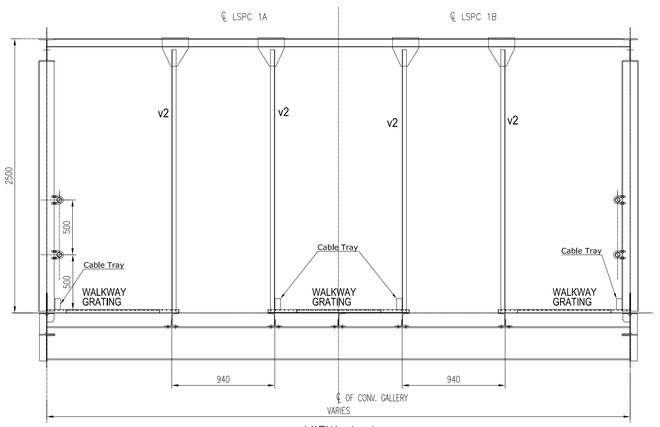
DETAIL – 'A'
(SCALE 1:10)



VIEW 3–3

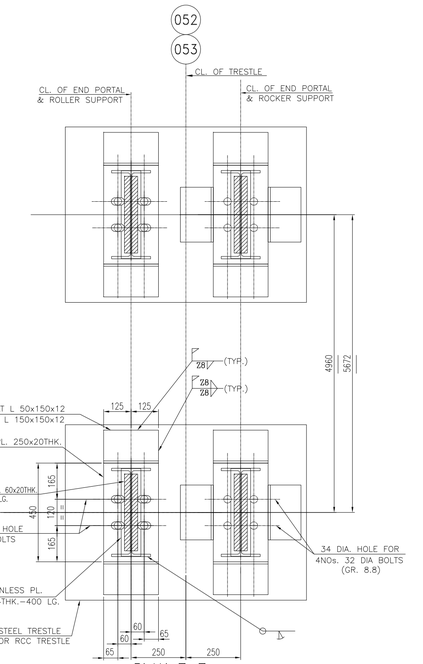


VIEW 5–5



VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x30	635
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	75
		a2	L 75x75x8 ⌜	75
		t1	ISMC 125 ⌝	70
2	BOTTOM CHORD	bc1	UB 203x133x25	500
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8 ⌜	155
		b2	L 75x75x8 ⌜	180
	CROSS BEAM	CB1	UB 254x146x31	140
3	VERTICAL	v1	ISMC 150 ⌞	200
		v2	ISMC 75 ⌞	10
4	DIAGONAL	d1	2Ls 65x65x6 ⊤	300
		d2	L 75x75x8 ⌜	175
5	END PORTAL	ep1	UB 406x178x54	335
6	WALK WAY STRINGER	w1	ISMC 125 ⌞	200
7	FLOOR PL.	GRATING		
	GST. PLATE 8THK.			



PLAN 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm, & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/06/2019	Issued	Tech.Pos.:	-
Mallick	14/06/2019	Gepr.	Contract:	%SACHBE%

-		E	-
-		D	-
-		C	-
-	-	B	-
		A	

ISO 14405 ⓓ ISO 13920-AVE — Ind | Modification | Ref.: -

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GAL. MKD. CG-53U/21 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_019

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Scale: nts

Sheet/of 1 / 1

+ Replacement for - Replaced by -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

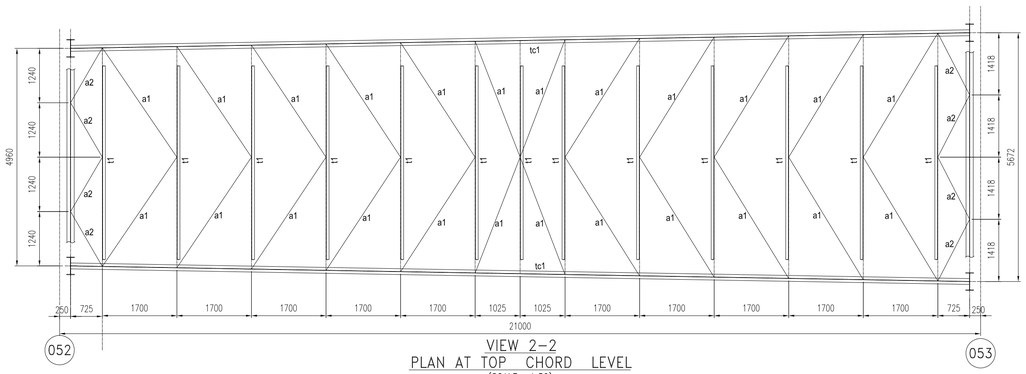
SCALE: NTS

SHEET 28 OF 54

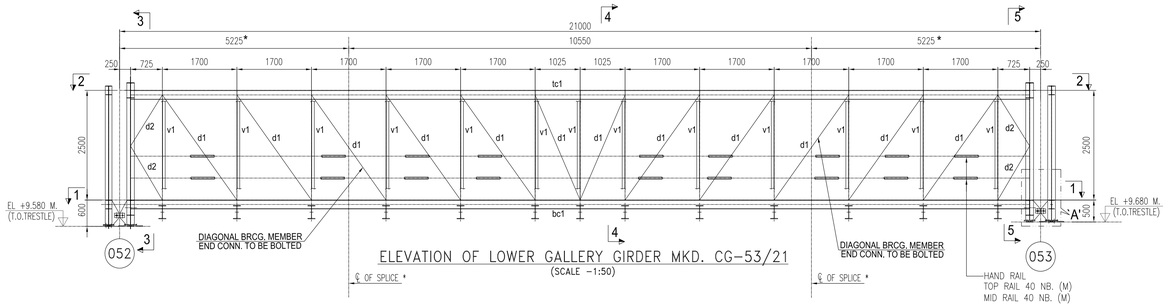
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.: 0

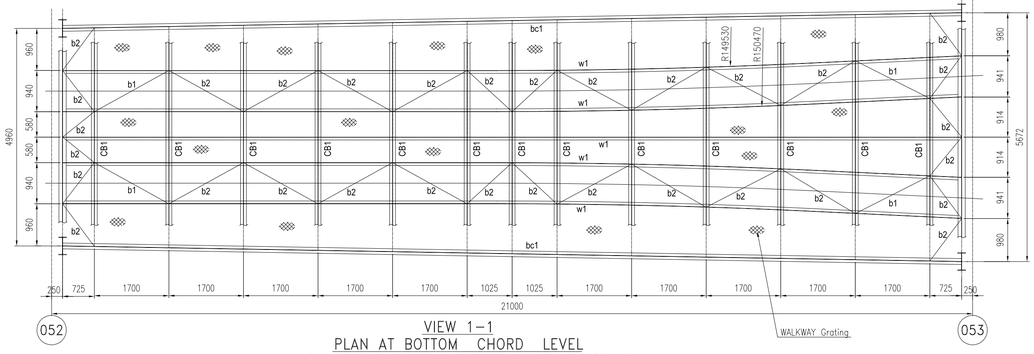
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

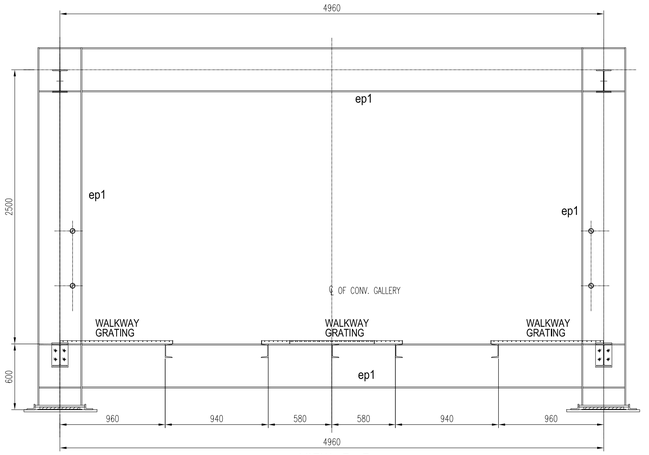


ELEVATION OF LOWER GALLERY GIRDER MKD. CG–53/21
(SCALE –1:50)

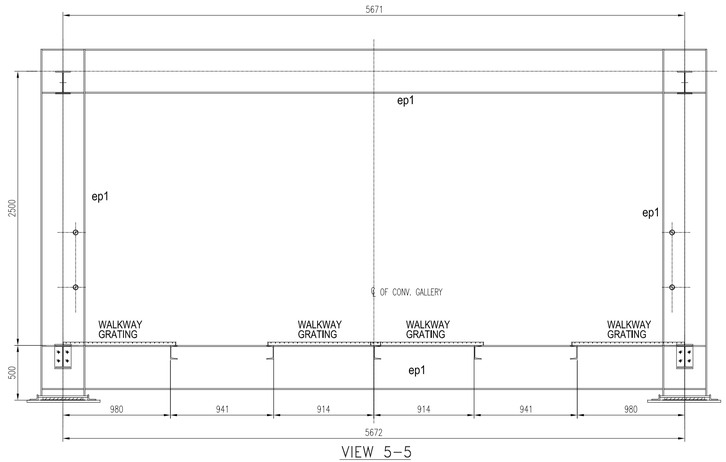


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

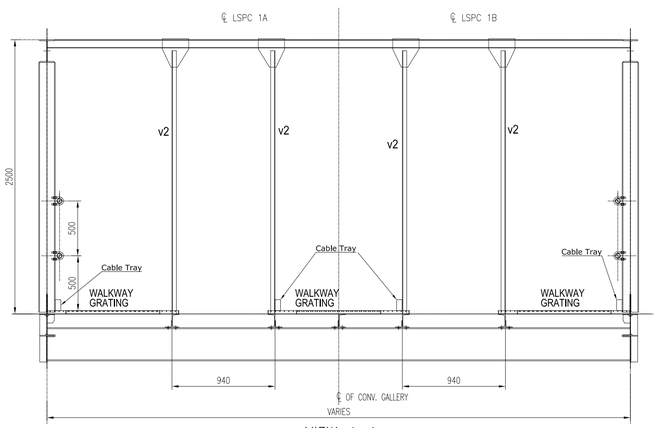
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



VIEW 3–3



VIEW 5–5



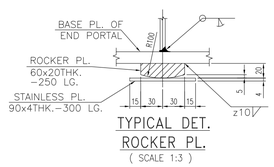
VIEW 4–4

v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

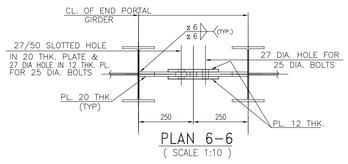
SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x30	635
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	75
		a2	L 75x75x8	75
		t1	ISMC 125	70
2	BOTTOM CHORD	bc1	UB 203x133x25	500
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8	155
		b2	L 75x75x8	180
	CROSS BEAM	CB1	UB 254x146x31	140
3	VERTICAL	v1	ISMC 150	200
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	300
		d2	L 75x75x8	175
5	END PORTAL	ep1	UB 406x178x54	335
6	WALK WAY STRINGER	w1	ISMC 125	200
7	FLOOR PL.	6 O/P CHEQ. PL.		
	GST. PLATE 8THK.			

PLAN 7–7

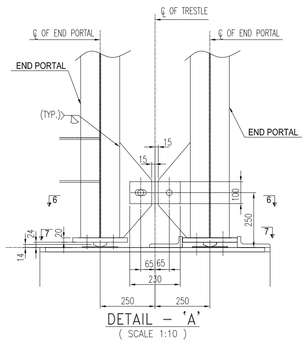
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



PLAN 6–6
(SCALE 1:10)



DETAIL – 'A'
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 29 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHIBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GAL. MKD. CG-53L/21 LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_020

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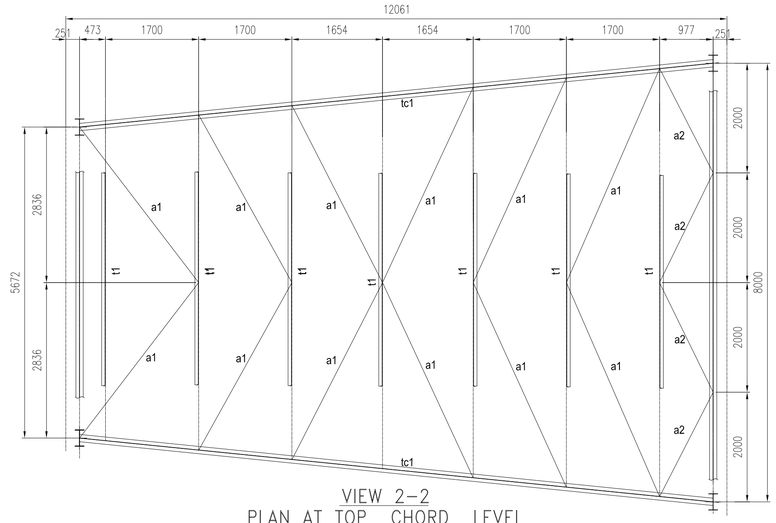
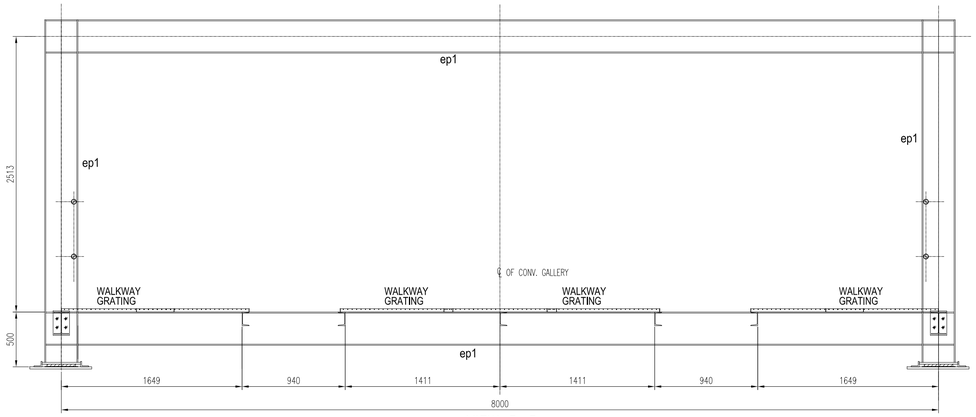
Scale: nts
Sheet/of 1 / 1
ISO 14405 E
ISO 13920-A/E
Ind. Modification Ref.: -
Origin
Replacement for
Replaced by

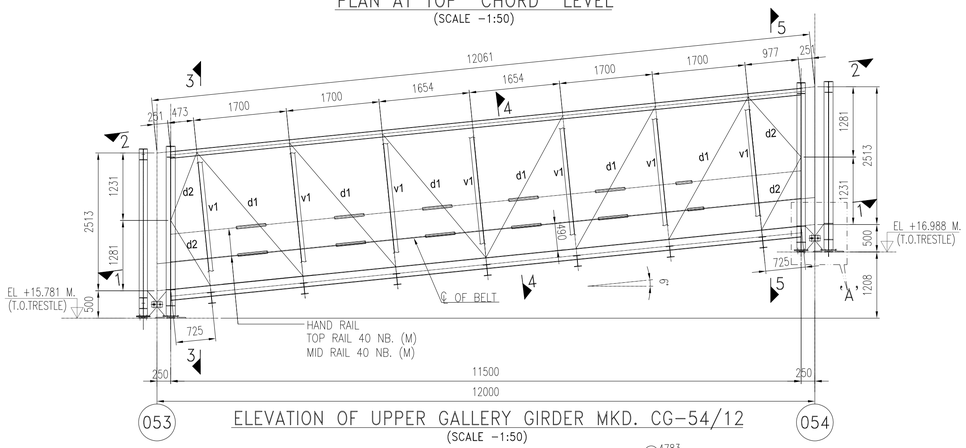
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	45
		a2	L 75x75x8	45
		t1	ISMC 125	40
2	BOTTOM CHORD	bc1	UB 203x133x25	330
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	90
		b2	L 65x65x6	80
	CROSS BEAM	CB1	UB 305x165x40	55
3	VERTICAL	v1	ISMC 150	140
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	240
		d2	L 75x75x8	145
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.	6 O/P CHEQ. PL.		



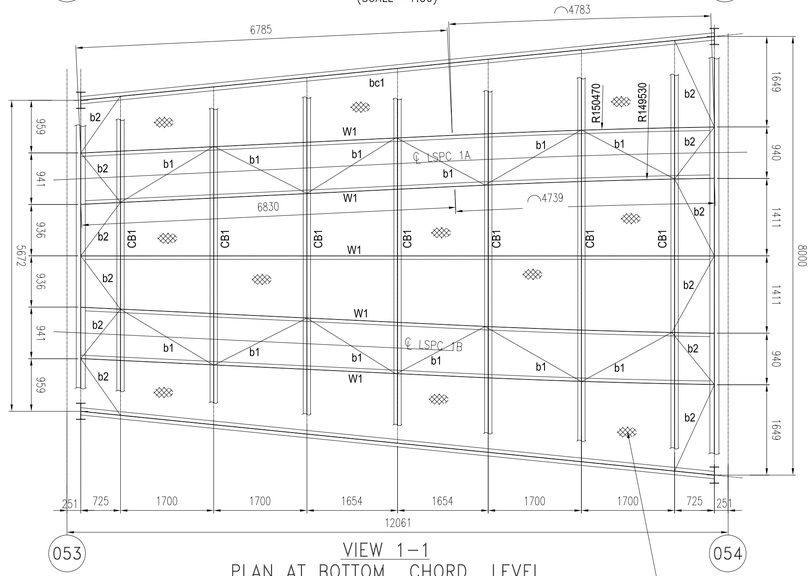
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



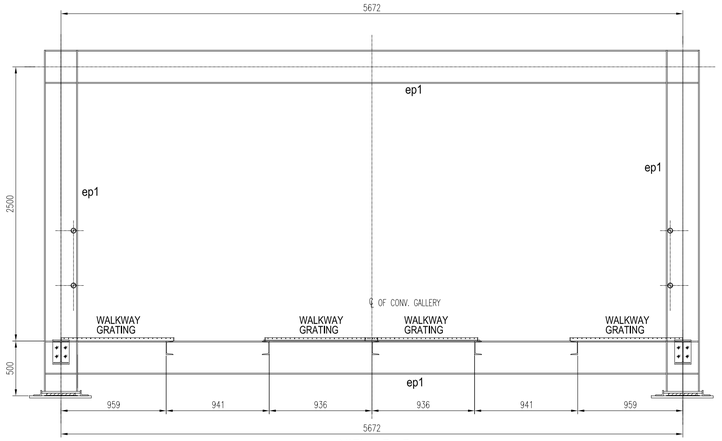
VIEW 5–5



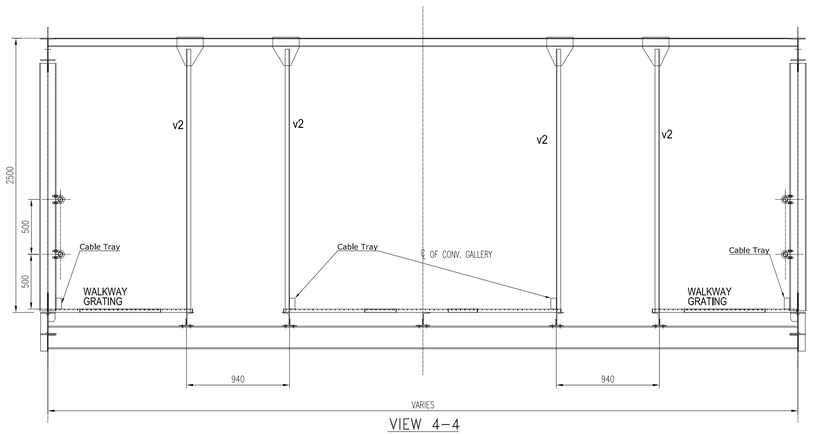
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–54/12
(SCALE –1:50)



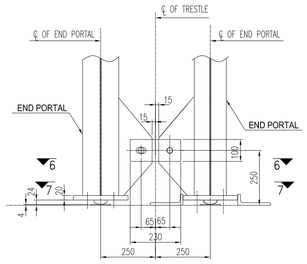
VIEW 1–1
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
PLAN AT BOTTOM CHORD LEVEL
(SCALE –1:50)



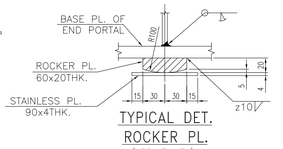
VIEW 3–3



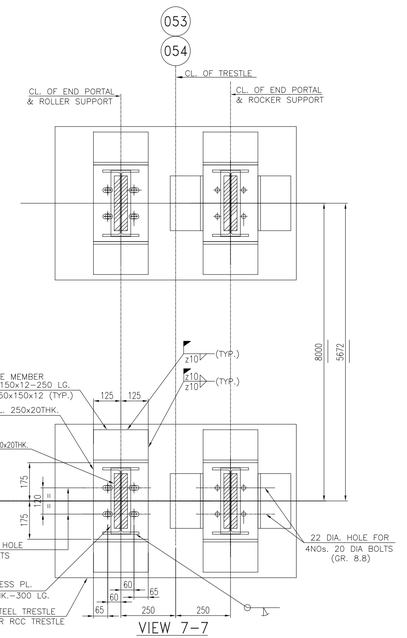
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



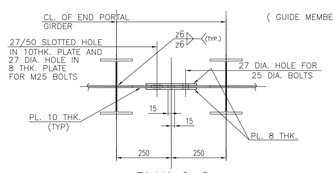
DETAIL – 'A'
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



PLAN 6–6
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 30 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES | BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY | SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068

SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618–450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%
-		E	-
-		D	-
-		C	-
-	-	B	-
-	-	A	-
ISO 14405		Ind.	Mod/Muster/Ref.: -
ISO 13920-A/E			Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-54U/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_021

Scale: nts

Sheet/of 1 / 1

Replacement for - | Replaced by -

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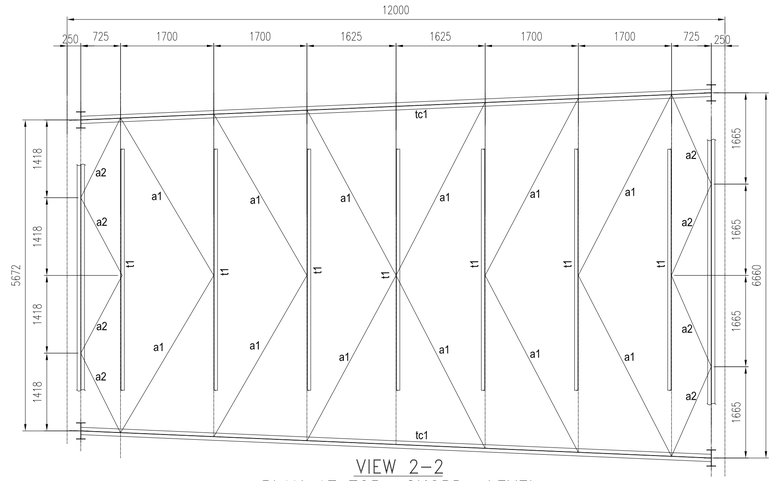
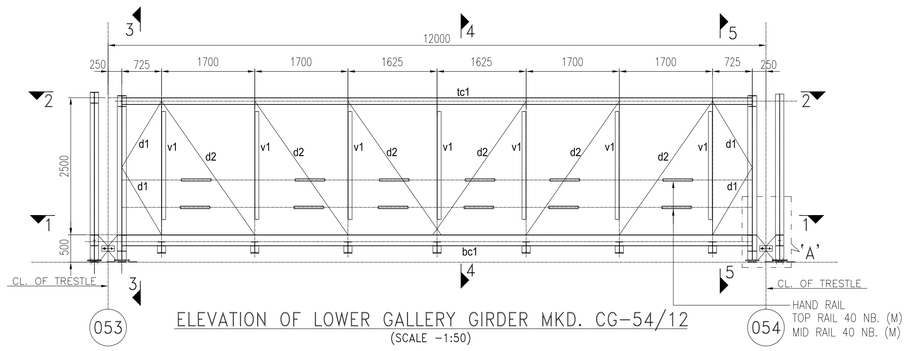
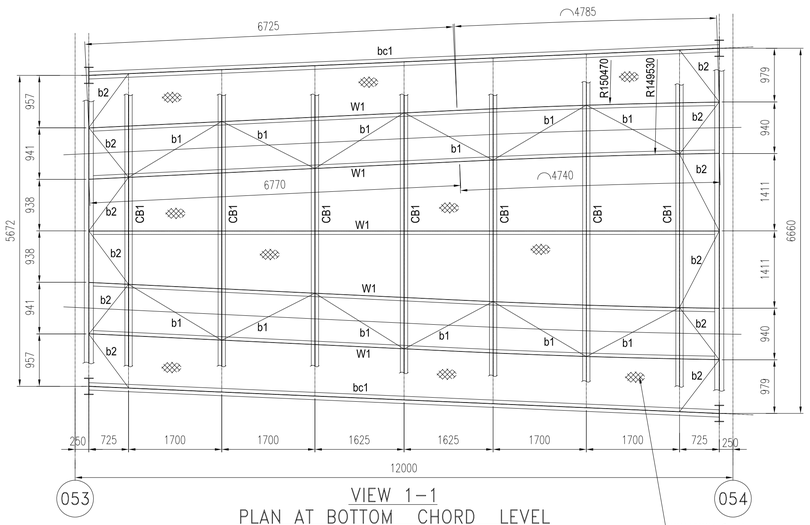


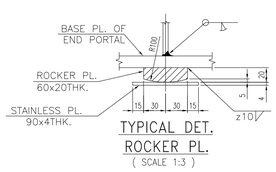
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



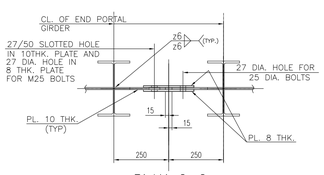
ELEVATION OF LOWER GALLERY GIRDER MKD. CG–54/12
(SCALE –1:50)



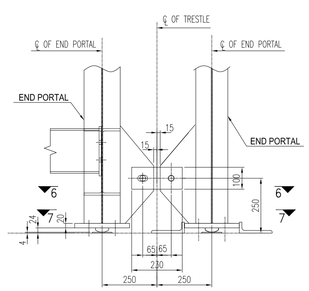
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



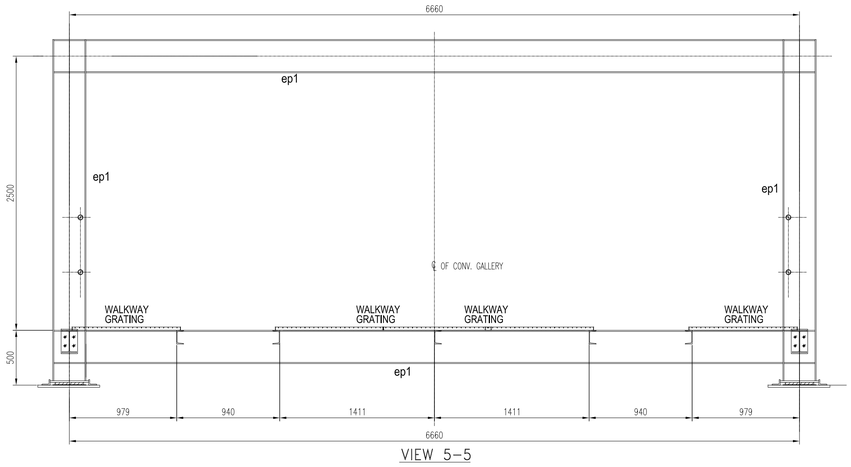
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



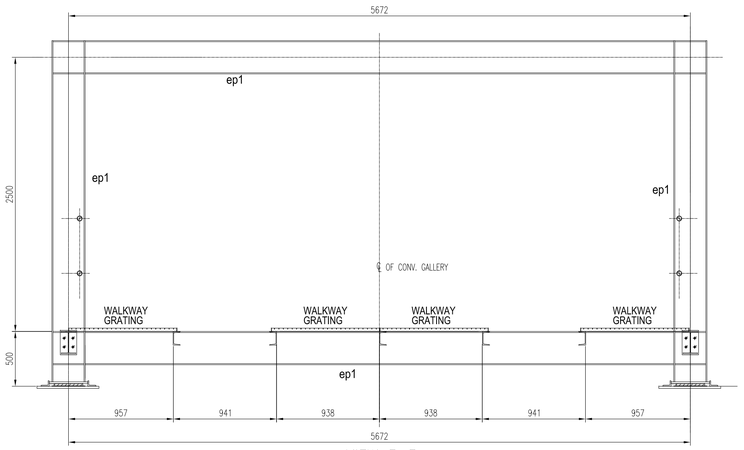
PLAN 6–6
(SCALE 1:10)



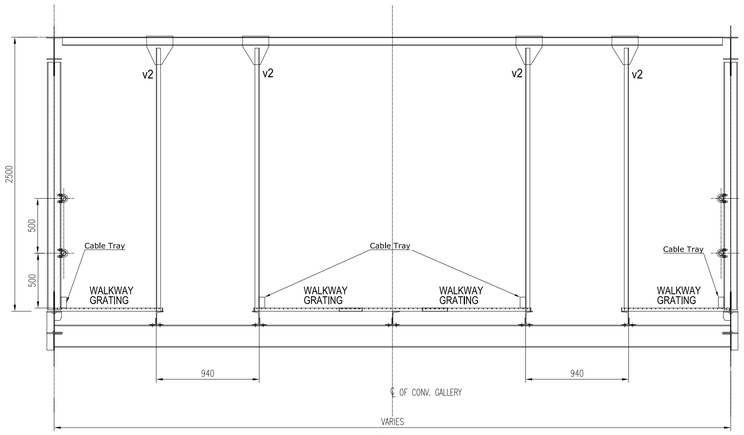
DETAIL – 'A'
(SCALE 1:10)



VIEW 5–5

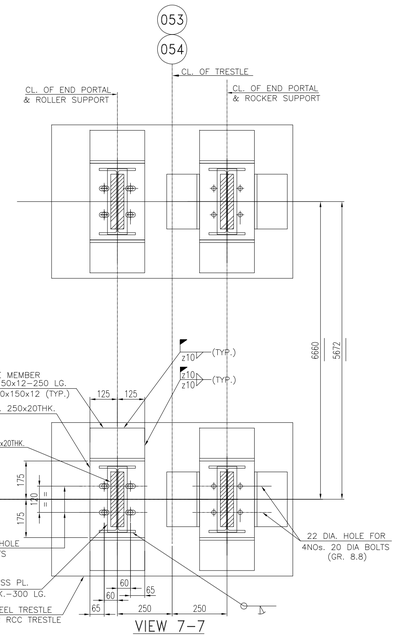


VIEW 3–3



VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	25
		a2	L 75x75x8	25
		t1	ISMC 125	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	50
		b2	L 65x65x6	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150	50
		v2	ISMC 75	80
4	DIAGONAL	d1	L 75x75x8	95
		d2	2Ls 65x65x6	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125	145
7	FLOOR PL.	GRATING		
8	GST PLATE 8 THK.			



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

ISO 14405 ℄ Ind. Modifikation Ref.: -
ISO 13920-A/E Origin - Replacement for - Replaced by -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-54L/12
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_022
Scale: nts
Sheet/of 1 / 1

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

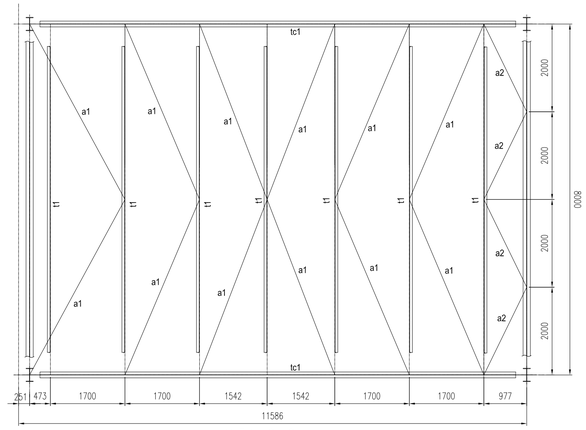
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 31 OF 54

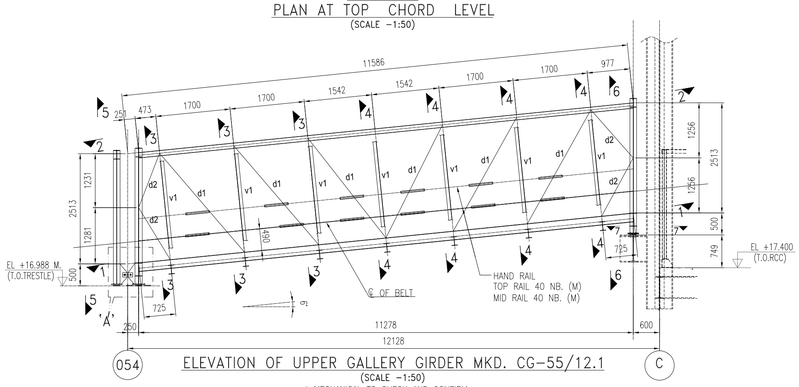
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

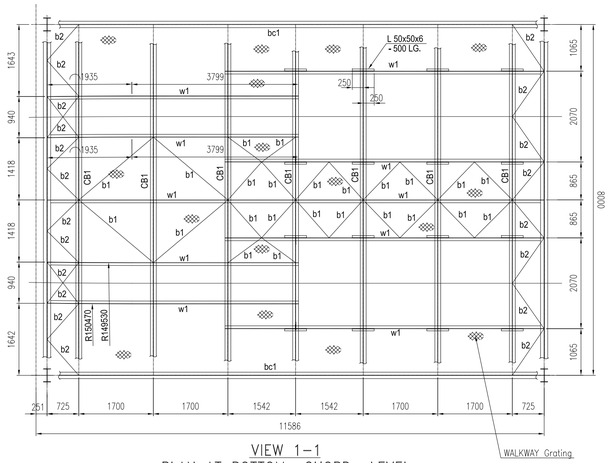
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
REV.: 0



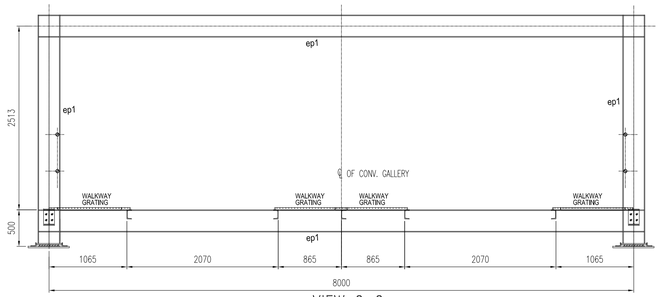
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



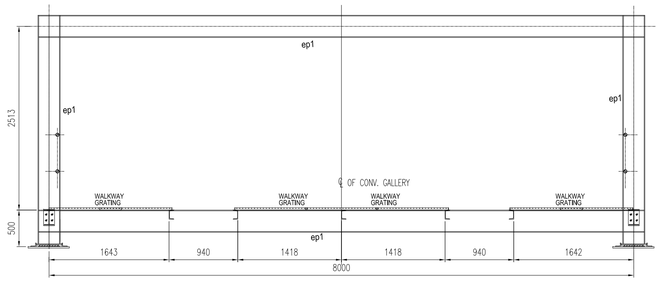
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–55/12.1
(SCALE –1:50)
* MECHANICAL TO CHECK AND CONFIRM



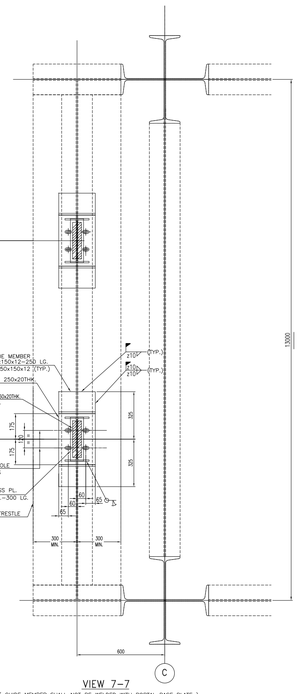
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



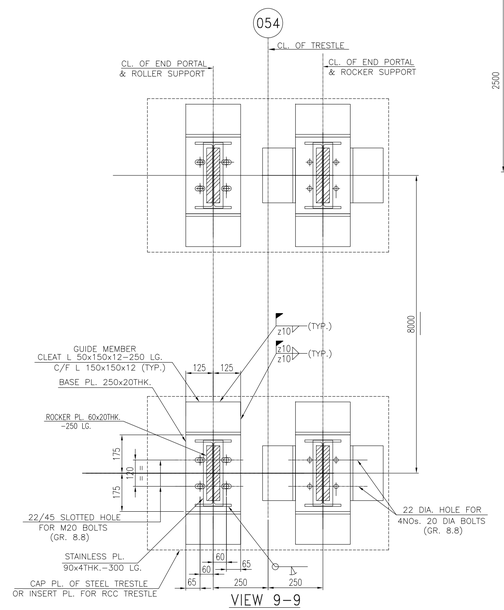
VIEW 6–6



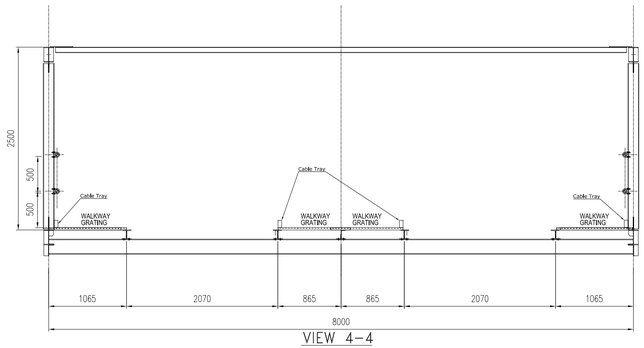
VIEW 5–5



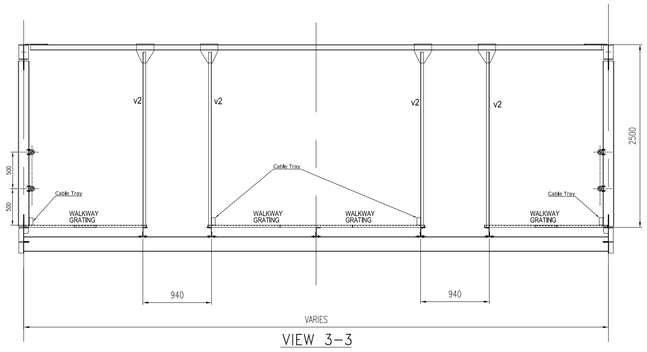
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



VIEW 9–9
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

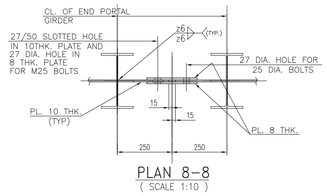


VIEW 4–4

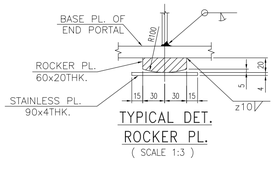


VIEW 3–3

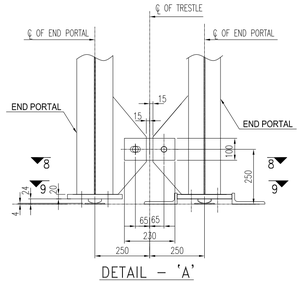
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	45
		a2	L 75x75x8	45
		t1	ISMC 125	40
2	BOTTOM CHORD	bc1	UB 203x133x25	330
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	90
		b2	L 65x65x6	80
	CROSS BEAM	CB1	UB 305x165x40	55
3	VERTICAL	v1	ISMC 150	140
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	240
		d2	L 75x75x8	145
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.	GRATING		
8	GST PLATE 8 THK.			



PLAN 8–8
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Depr.	Contact:	%SACHBE%

-		E	-
-		D	-
-		C	-
-	-	B	-
-	-	A	-

ISO 14405	Ind	Modification	Ref.: -
ISO 13920-AE			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GAL. MKD. CG-55U/12.1
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_023
Scale: nts
Sheet/of 1 / 1

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- Replacement for: -
- Replaced by: -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

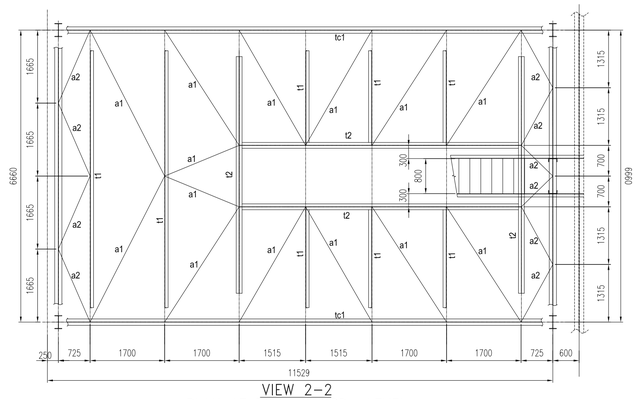
	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

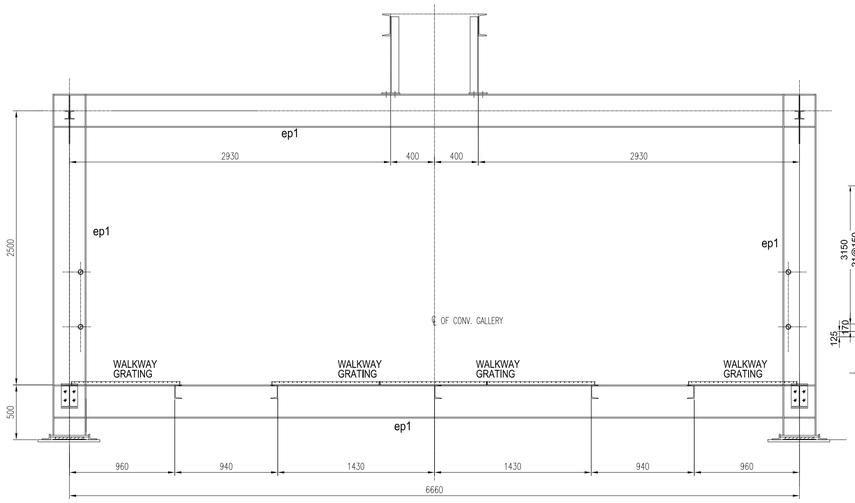
SCALE: NTS
SHEET: 32
OF: 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

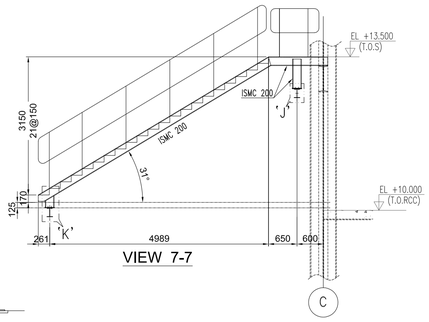
SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: O
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG		



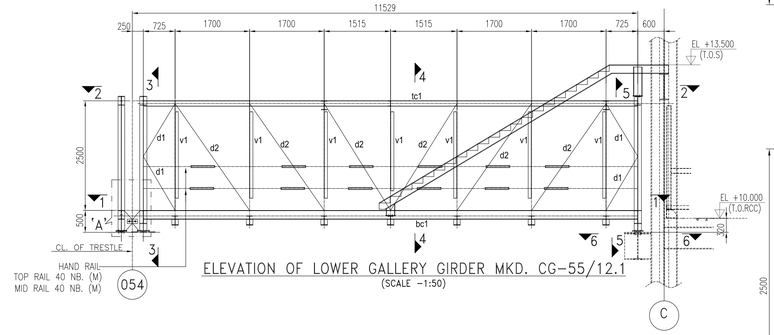
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



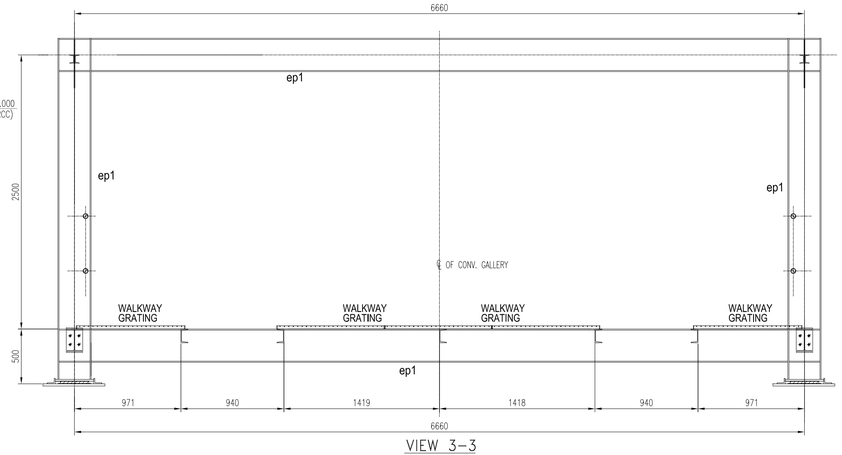
VIEW 5–5



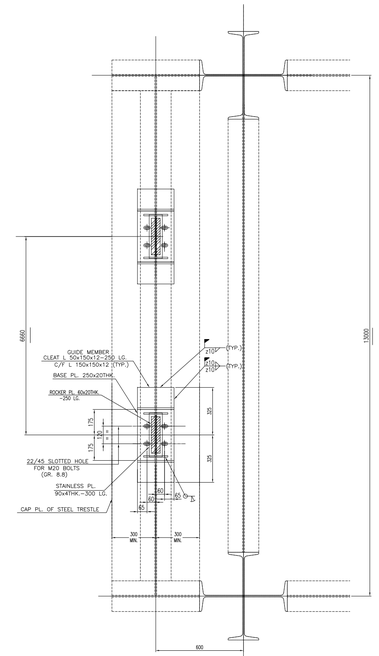
VIEW 7-7



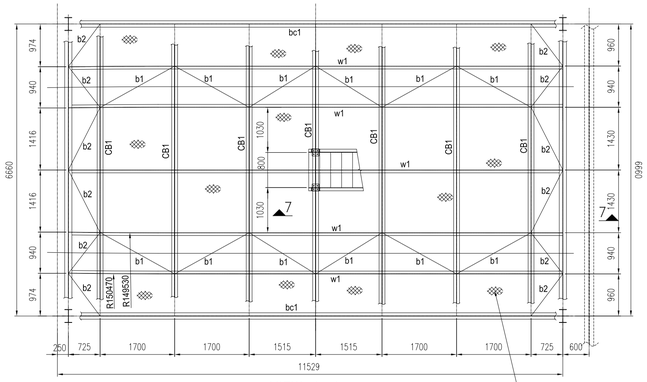
ELEVATION OF LOWER GALLERY GIRDER MKD. CG-55/12.1
(SCALE –1:50)



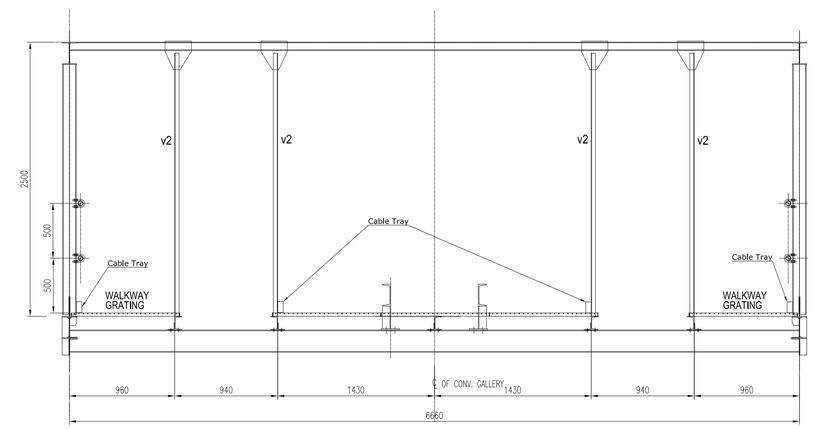
VIEW 3–3



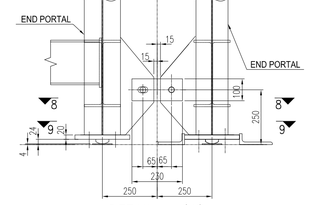
VIEW 6–6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



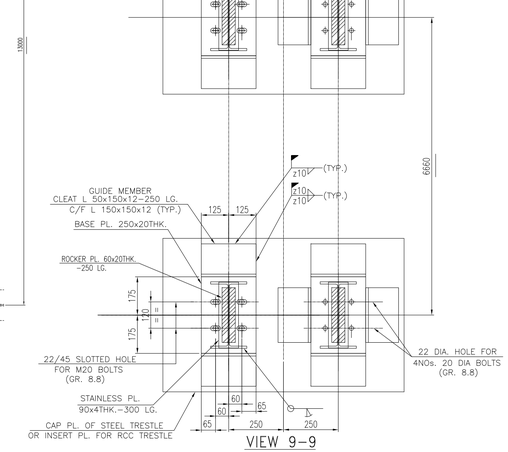
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



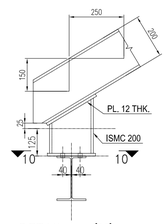
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



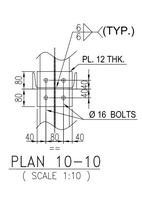
DETAIL – 'A'
(SCALE 1:10)



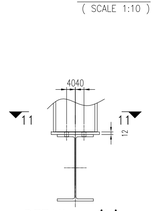
VIEW 9–9
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



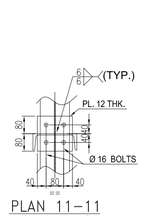
DETAIL – 'K'
(SCALE 1:10)



PLAN 10–10
(SCALE 1:10)



DETAIL – 'K'
(SCALE 1:10)



PLAN 11–11
(SCALE 1:10)

TYPICAL DET. ROCKER PL.
(SCALE 1:3)

PLAN 8–8
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	55
		a2	L 75x75x8	35
		t1	ISMC 125	45
		t2	UB 203x133x25	
2	BOTTOM CHORD	bc1	UB 203x133x25	180
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	65
		b2	L 65x65x6	50
	CROSS BEAM	CB1	UB 254x146x31	30
3	VERTICAL	v1	ISMC 150	80
		v2	ISMC 75	10
4	DIAGONAL	d1	L 75x75x8	95
		d2	2Ls 65x65x6	145
5	END PORTAL	ep1	UB 305x165x40	190
6	WALK WAY STRINGER	W1	ISMC 125	60
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%AT%	Order_No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gen.	Contact:	%SACHBE%

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GAL. MKD. CG-55L/12.1 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_024

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Scale: ~1/8 | Sheet/of: 1 / 1

Origin: - | Replacement for: - | Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET: 33 | OF: 54

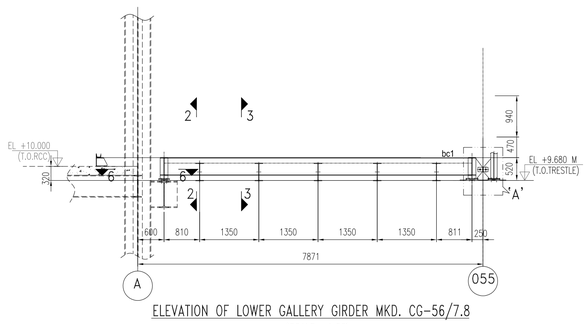
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES: BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY: SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068

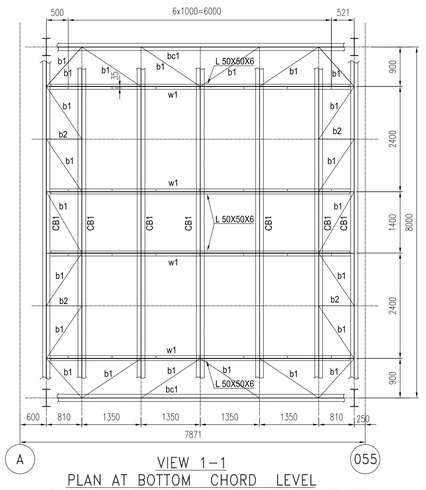
SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG



ELEVATION OF LOWER GALLERY GIRDER MKD. CG-56/7.8

(SCALE -1:50)

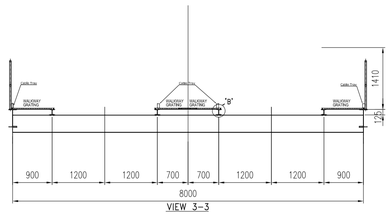


VIEW 1-1

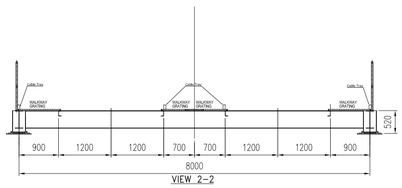
PLAN AT BOTTOM CHORD LEVEL

PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL

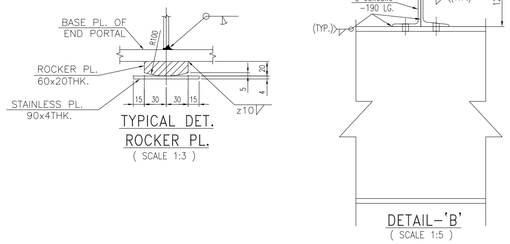
(SCALE -1:50)



VIEW 3-3



VIEW 2-2

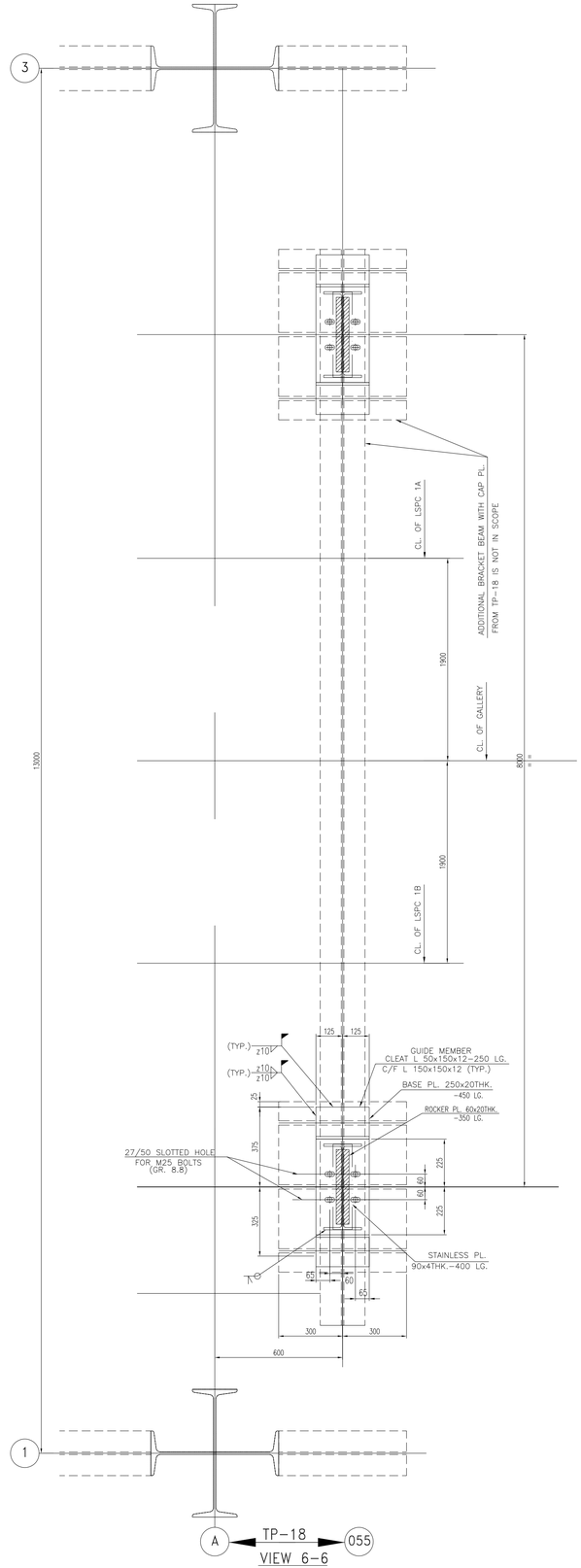


TYPICAL DET.
ROCKER PL.

(SCALE 1:3)

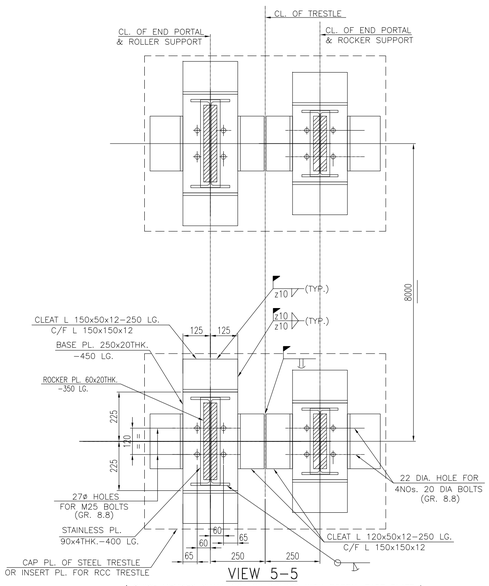
DETAIL-'B'

(SCALE 1:5)



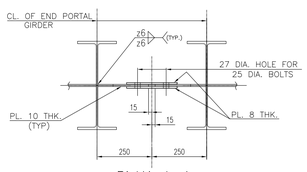
VIEW 6-6

SCHEDULE OF MEMBERS FOR LSPC CG-56/7.8 GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	BOTTOM CHORD	bc1	UB 406x178x54	45
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌐	35
		b2	ISMC 125 [	20
	CROSS BEAM	CB1	UB 406x178x54	45
2	END PORTAL	ep1	UB 406x178x54	90
3	WALK WAY STRINGER	w1	ISMC 125 [	25
4	FLOOR PL.	GRATING		
5	TOP RAIL	40 NB (M) PIPE		
6	MID RAIL			
7	POST			
8	GST. PLATE 8 THK.			



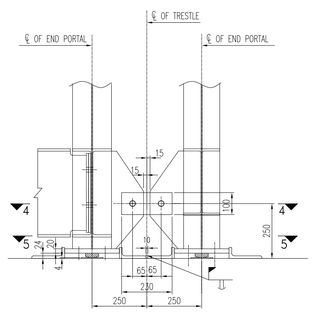
VIEW 5-5

(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



PLAN 4-4

(SCALE 1:10)



DETAIL - 'A'

(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%ALT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contract:	%SACHBE%
-		E	-	
-		D	-	
-		C	-	
-	-	B	-	
-	-	A	-	

ISO 14405 ⓓ ISO 13920-A/E

Ind | Modifikation | Ref.: -

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GAL. MKD. CG-56/7.8 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_025

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Scale: nts

Sheet/of 1 / 1

- Replacement for - Replaced by -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

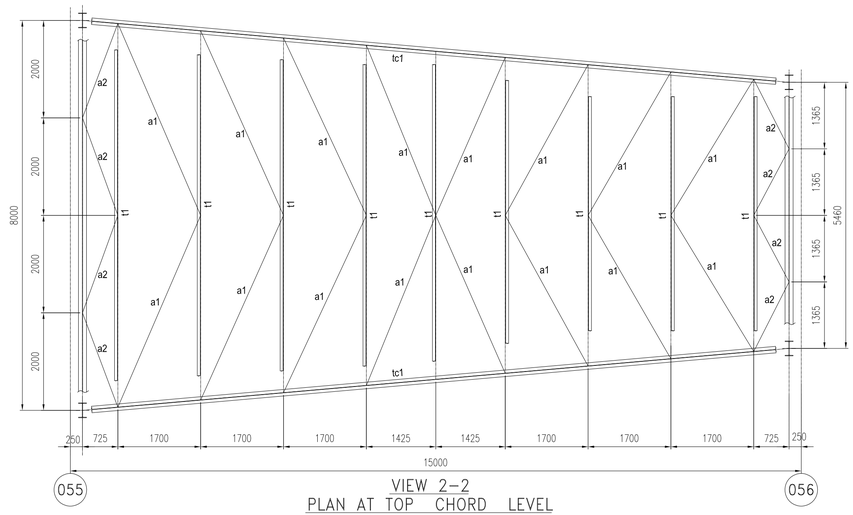
	NAME	DATE
DRN	-	16.07.2019
CHD	-	16.07.2019
APPD	-	

PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinenfabrik,Germany

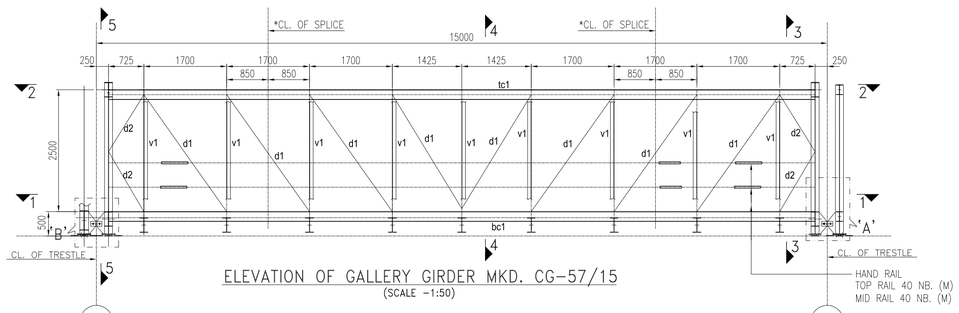
SCALE NTS | SHEET 34 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

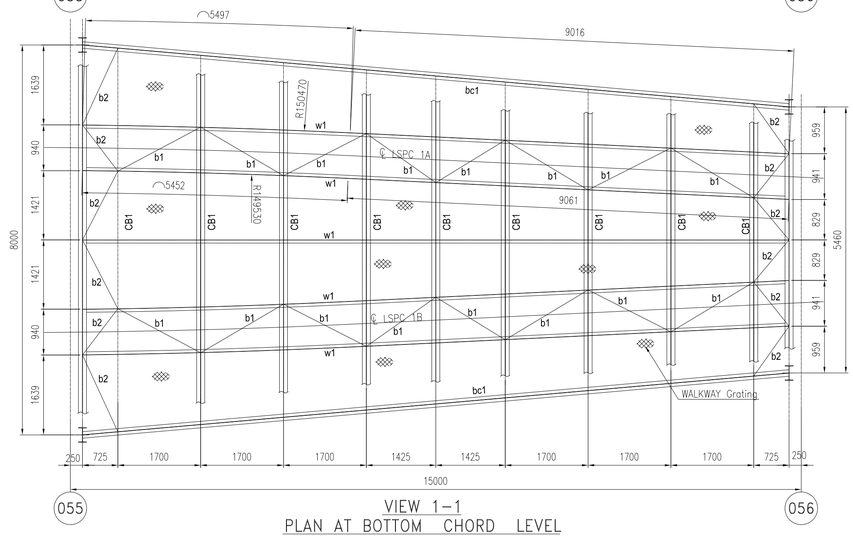
SUPERSEDES	BHEL JOB NO.: -	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068	
SYSTEM	ANNEX.: -	DRAWING NO.: ----	REV.: 0
CUSTOMER DRAWING NO.:	Maitree-00-UED-LC-177353-ISG		



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

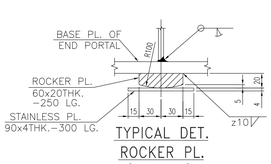


ELEVATION OF GALLERY GIRDER MKD. CG–57/15
(SCALE –1:50)

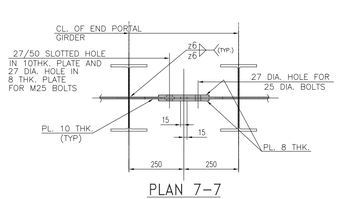


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

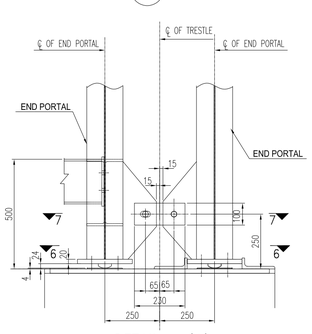
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



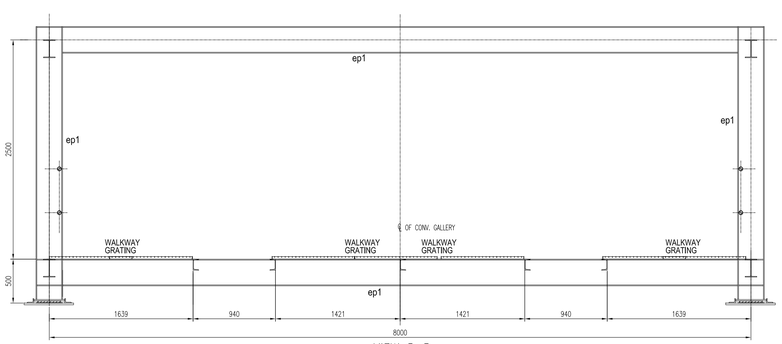
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



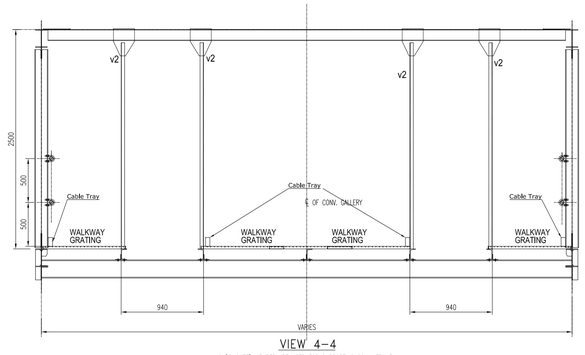
PLAN 7–7
(SCALE 1:10)



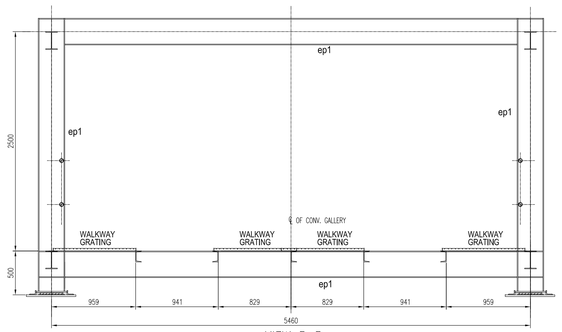
DETAIL – 'A' (TYP.)
(SCALE 1:10)



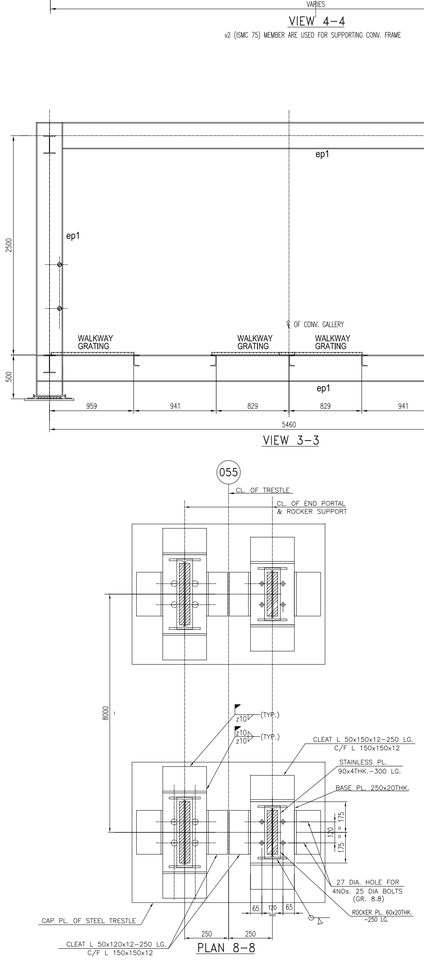
VIEW 5–5



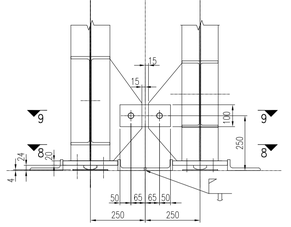
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



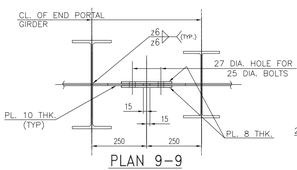
VIEW 3–3



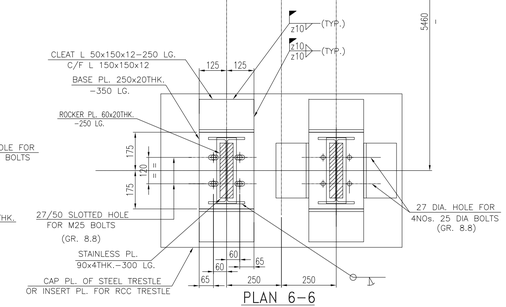
PLAN 8–8



DETAIL – 'B'
(SCALE 1:10)



PLAN 9–9
(SCALE 1:10)



PLAN 6–6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	45
		a2	L 75x75x8	45
		t1	ISMC 125	40
2	BOTTOM CHORD	bc1	UB 203x133x25	330
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	90
		b2	L 65x65x6	80
	CROSS BEAM	CB1	UB 305x165x40	55
3	VERTICAL	v1	ISMC 150	140
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	240
		d2	L 75x75x8	145
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.	GRATING		

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP					
Name	Date	%AT%	Order.No.:	618-450068	
Basu	13/08/2019	Issued	Tech.Pos.:	-	
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%	
-		E	-		
-		D	-		
-		C	-		
-	-	B	-		
-	-	A	-		
ISO 14405 ⓓ		Ind.	Modification	Ref.:	-
ISO 13920-A/E			Origin	-	Replacement for -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GAL. MKD. CG-57/15
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_026
Scale: nts
Sheet/of 1 / 1
Replaced by -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

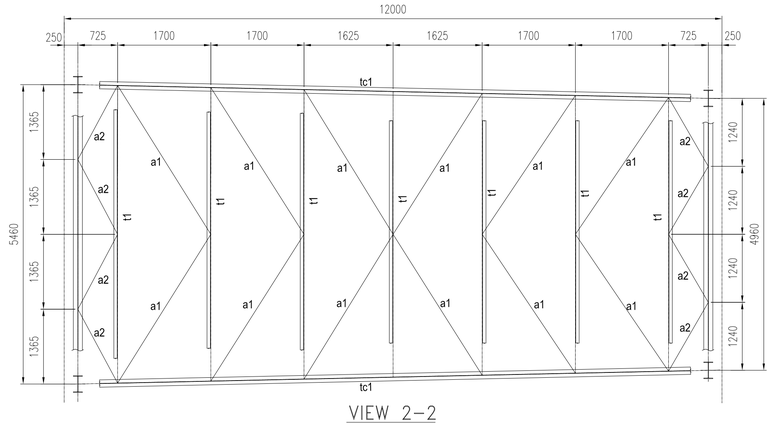
	NAME	DATE
DRN	–	16.07.2019
CHD	–	16.07.2019
APPD	–	

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

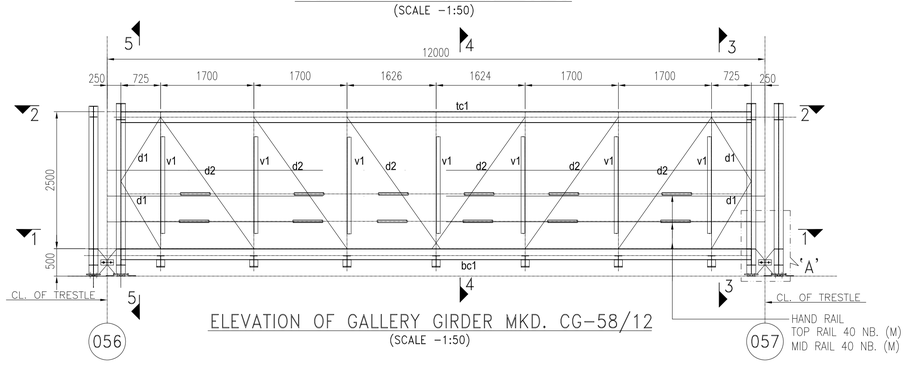
SCALE NTS | SHEET 35 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

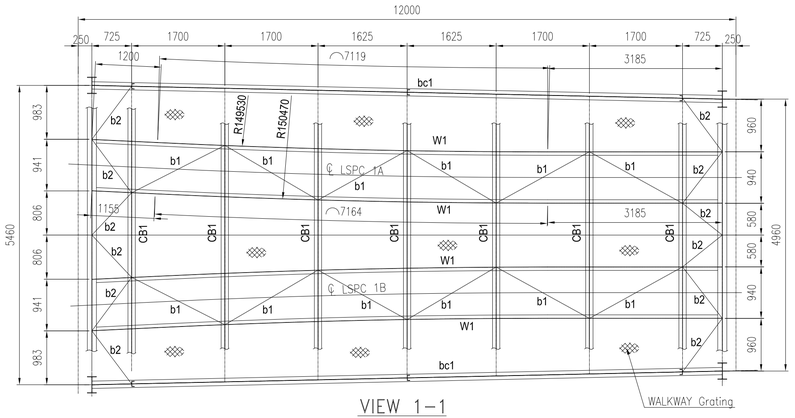
SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.: 0
CUSTOMER DRAWING NO.:		Maitree–00–UED–LC–177353–ISG	



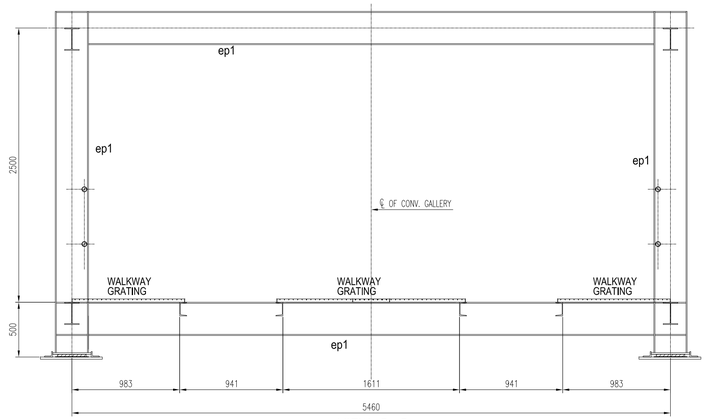
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



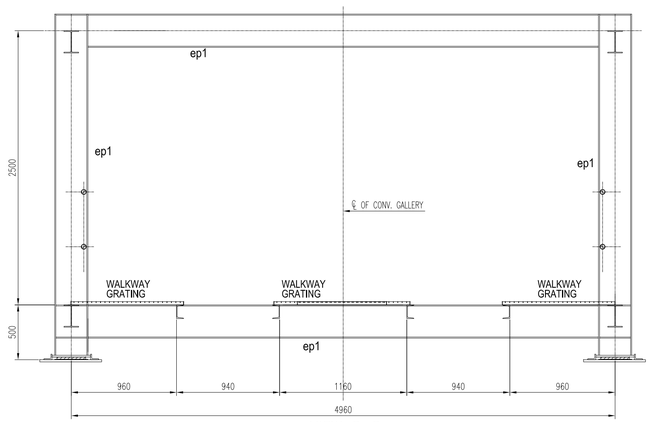
ELEVATION OF GALLERY GIRDER MKD. CG-58/12
(SCALE -1:50)



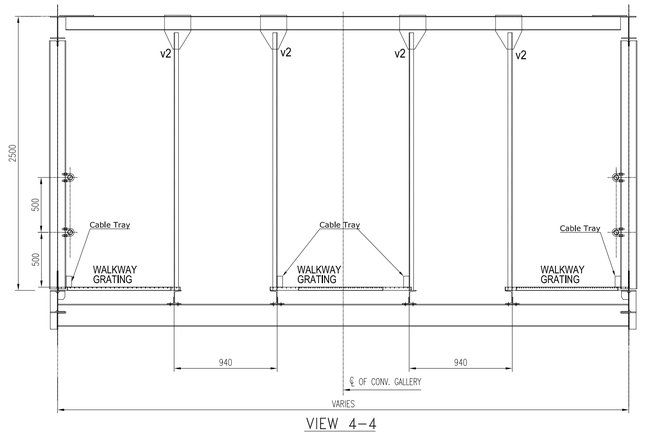
VIEW 1-1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE -1:50)



VIEW 5-5

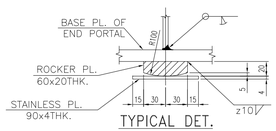


VIEW 3-3

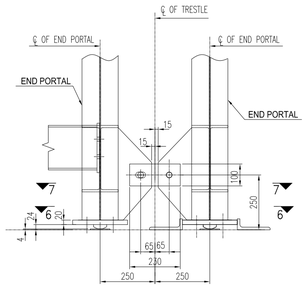


VIEW 4-4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

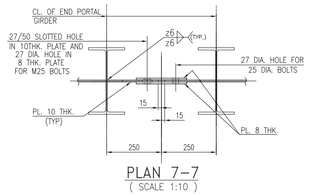
SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x30	180
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	25
		a2	L 75x75x8	25
		t1	2 ISMC 125	25
2	BOTTOM CHORD	bc1	UB 203x133x25	170
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	50
		b2	L 65x65x6	45
	CROSS BEAM	CB1	UB 203x133x30	30
3	VERTICAL	v1	ISMC 150	50
		v2	ISMC 75	80
4	DIAGONAL	d1	L 75x75x8	95
		d2	2Ls 65x65x6	145
5	END PORTAL	ep1	UB 305x165x40	180
6	WALK WAY STRINGER	W1	ISMC 125	145
7	FLOOR PL.	Grating		
8	GST. PLATE 8 THK.			



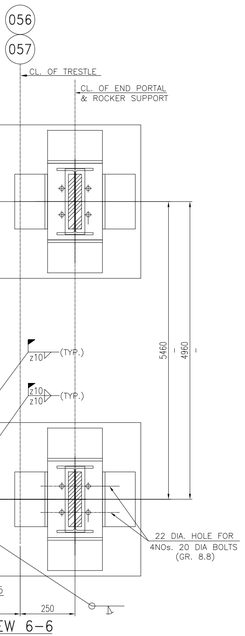
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



DETAIL - 'A'
(SCALE 1:10)



PLAN 7-7
(SCALE 1:10)



VIEW 6-6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%
-		E	-
-		D	-
-		C	-
-		B	-
-		A	-

ISO 14405 ⓔ Ind. Modifikation Ref.: -
ISO 13920-A/E Origin - Replacement for - Replaced by -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-58/12
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_027

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Scale: nts
Sheet/of 1 / 1

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

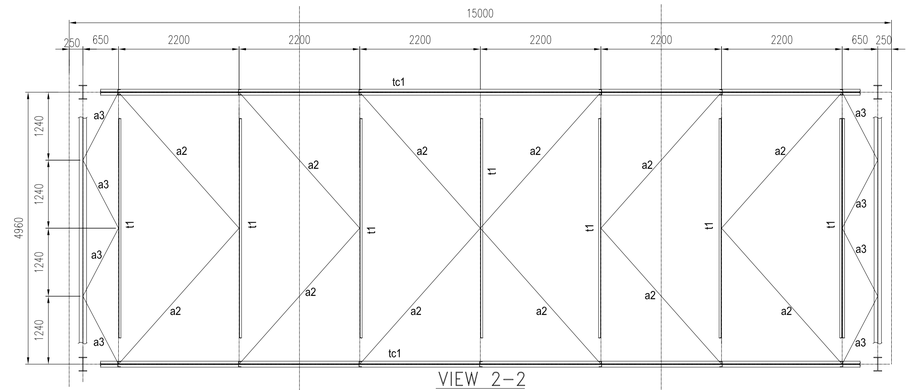
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

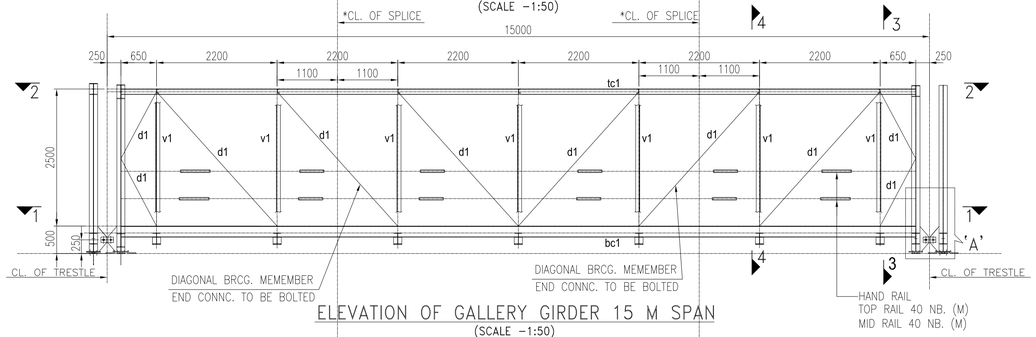
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	-	10.12.2018
CHD	-	11.12.2018
APPD	-	11.12.2018

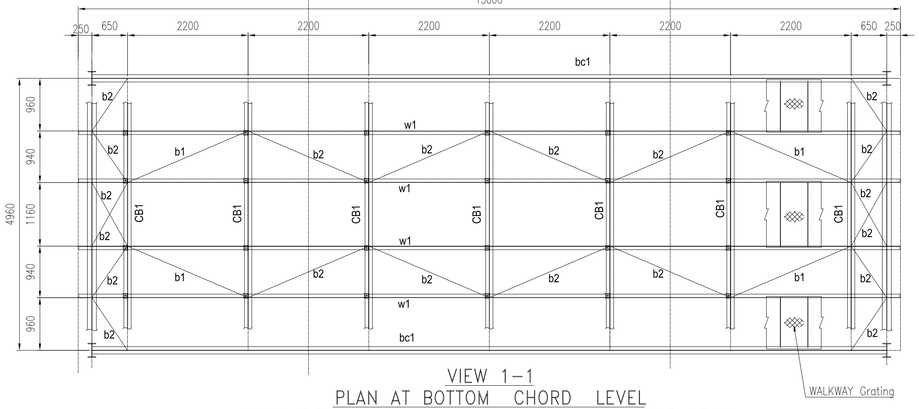
PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 36 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B
SUPERSEDES: BHEL JOB NO.: -
STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY: SIZE- A0 [1189 x 841]
PROJECT NO.: 618-450065
SYSTEM: ANNEX.: -
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG



VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

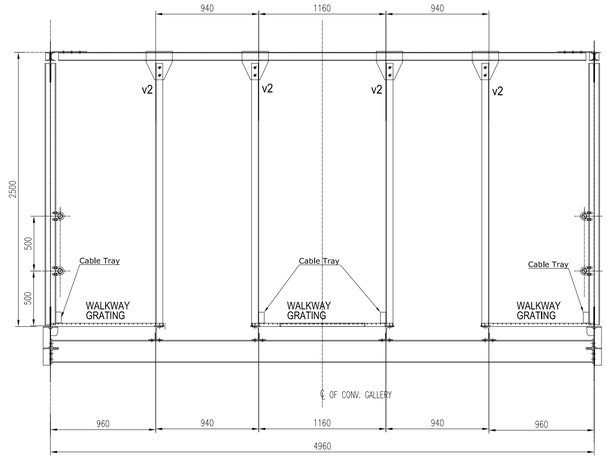


ELEVATION OF GALLERY GIRDER 15 M SPAN
(SCALE –1:50)

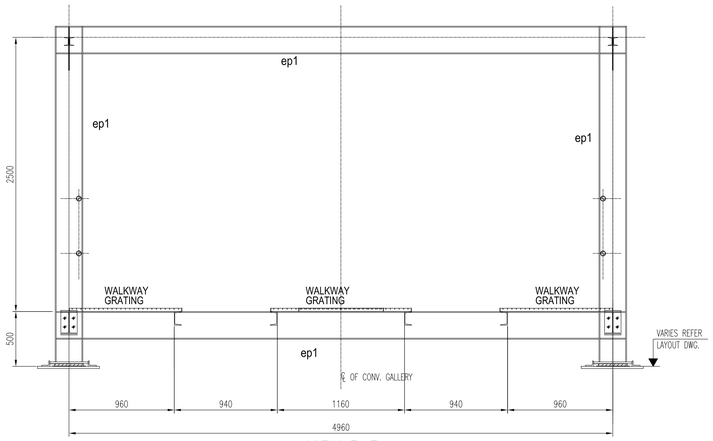


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

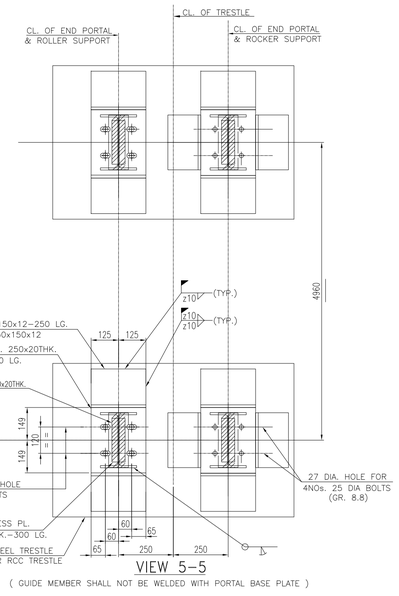
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



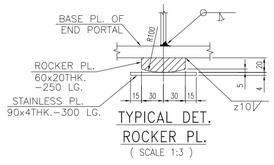
VIEW 4–4
v2 (L 65x65x5) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



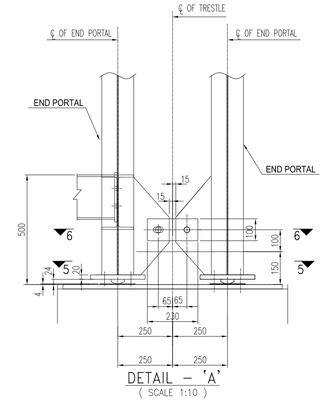
VIEW 3–3



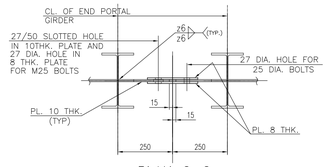
VIEW 5–5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET. ROCKER PL.
(SCALE 1:3)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)

SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 ISMC 100	140
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	NOT USED	
		a2	L 90x90x8	30
		a3	L 65x65x6	25
		t1	ISMC 75	30
2	BOTTOM CHORD	bc1	UB 203x133x25	70
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8	90
		b2	L 75x75x8	65
	CROSS BEAM	CB1	UB 203x133x25	40
3	VERTICAL	v1	ISMC 100	70
		v2	L 65x65x5	
4	DIAGONAL	d1	2Ls 65x65x6	140
5	END PORTAL	ep1	UB 254x146x31 I	40
6	WALK WAY STRINGER	w1	ISMC 125	65
7	FLOOR PL.	GRATING		
8	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618–450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contract: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF 15 M STANDARD GALLERY LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_028

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Scale: nts

ISO 14405 ⓓ ⊕ | ISO 13920-A/E | Ind | Modification | Ref.: - | Origin: - | Replacement for: - | Replaced by: -

Sheet/of 1 / 1

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: **FICHTNER** M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

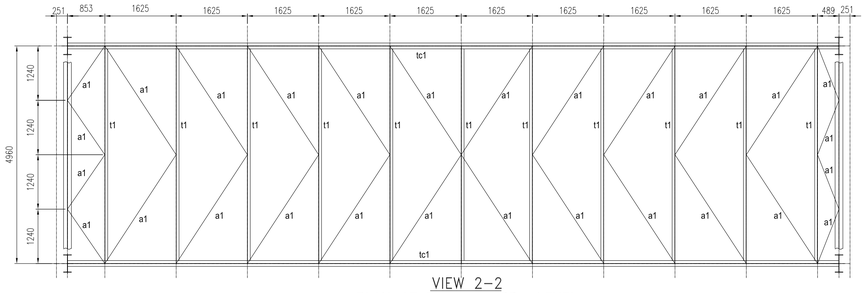
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS | SHEET 37 OF 54

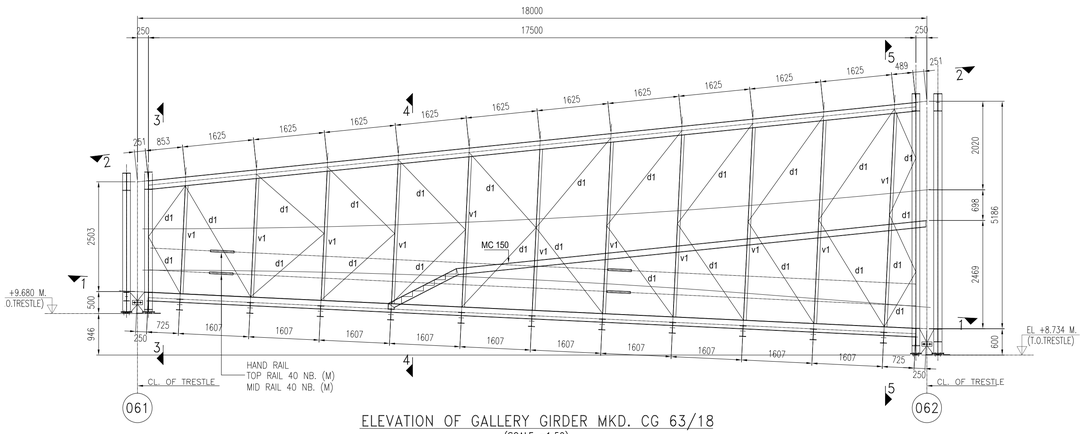
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

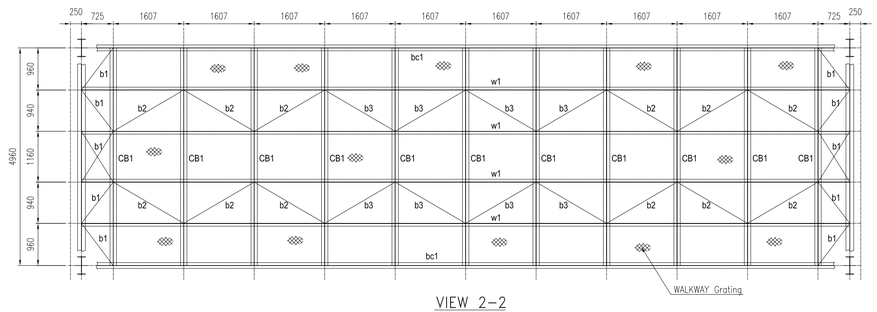
STATUS OF DRG.: FOR APPROVAL | PROJECT NO.: 618–450068 | DRAWING NO.: ---- | REV.: 0



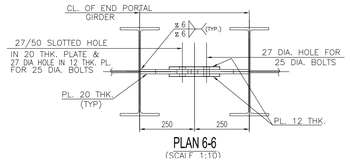
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



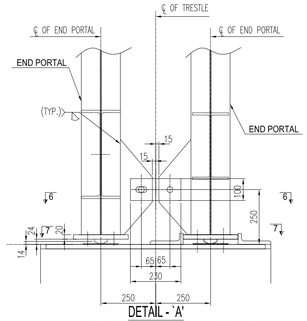
ELEVATION OF GALLERY GIRDER MKD. CG 63/18
(SCALE –1:50)



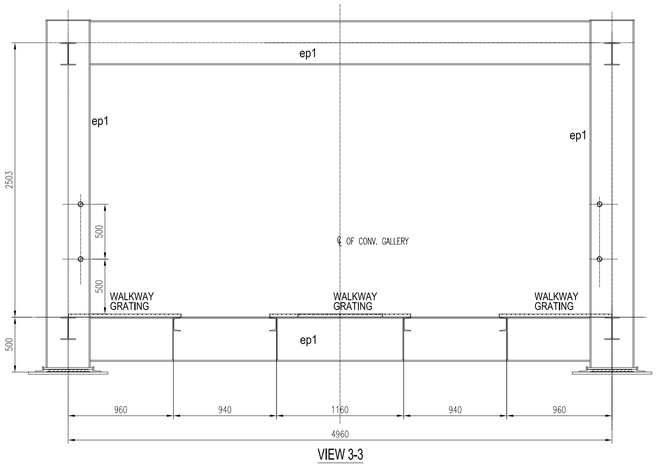
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



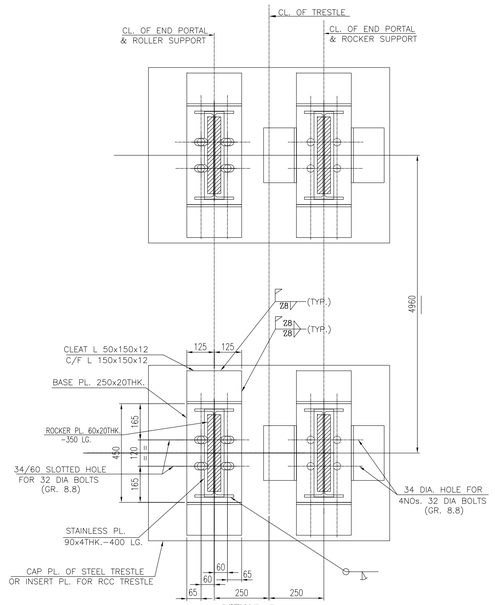
PLAN 6-6
(SCALE 1:10)



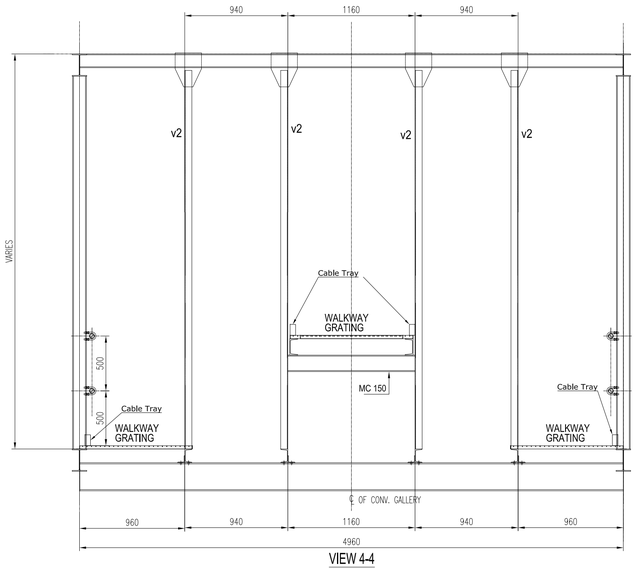
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



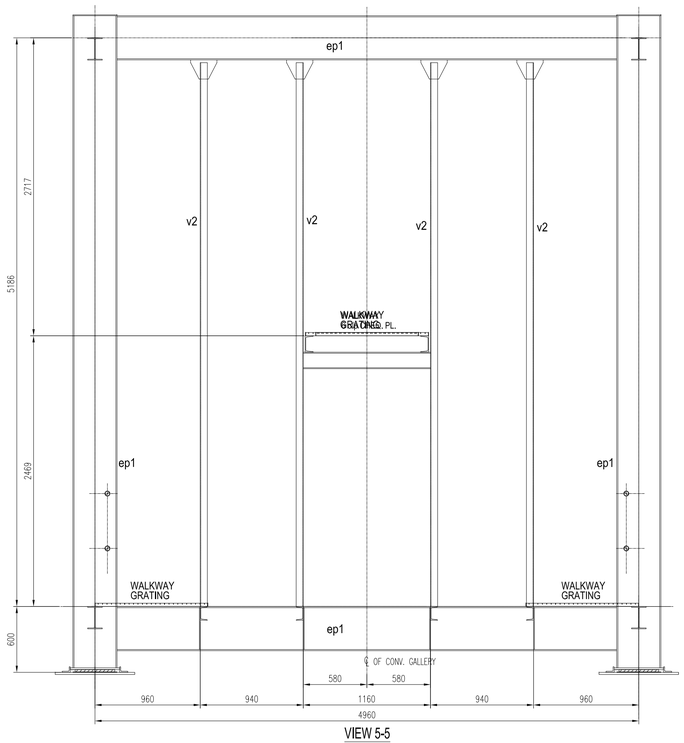
VIEW 3-3



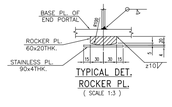
VIEW 7 - 7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



VIEW 4-4



VIEW 5-5



NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

SCHEDULE OF MEMBERS FOR LSPC 21 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25 I	360
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8 ⌜	60
		t1	ISMC 125 [	50
2	BOTTOM CHORD	bc1	UB 203x133x25 I	265
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8 ⌜	164
		b2	L 100x100x10 ⌜	110
		b3	L 90x90x8 ⌜	60
	CROSS BEAM	CB1	UB 254X146X31 I	120
3	VERTICAL	v1	ISMC 125 [	120
		v2	ISMC 125 [	20
4	DIAGONAL	d1	2L 100x100x10 ⊤⊤	155
5	END PORTAL	ep1	UB 406X178X54 I	285
6	WALK WAY STRINGER	W1	ISMC 125 [	160
7	FLOOR PL.		GRATING	
8	GST. PLATE 8 THK.			

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 38 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.: ----
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-63/18 LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_029
Scale: nts
Sheet/of 1 / 1
Ind | Modification | Ref.: - | Origin
Replacement for: - | Replaced by: -

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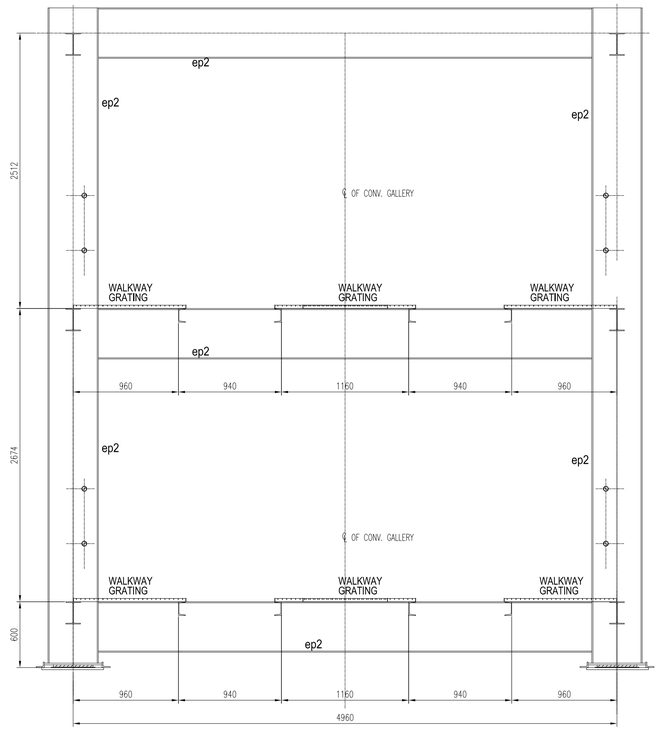
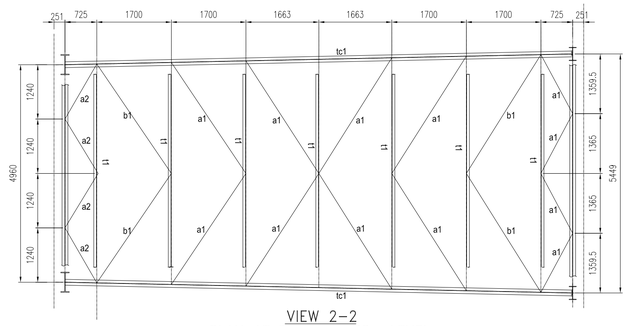
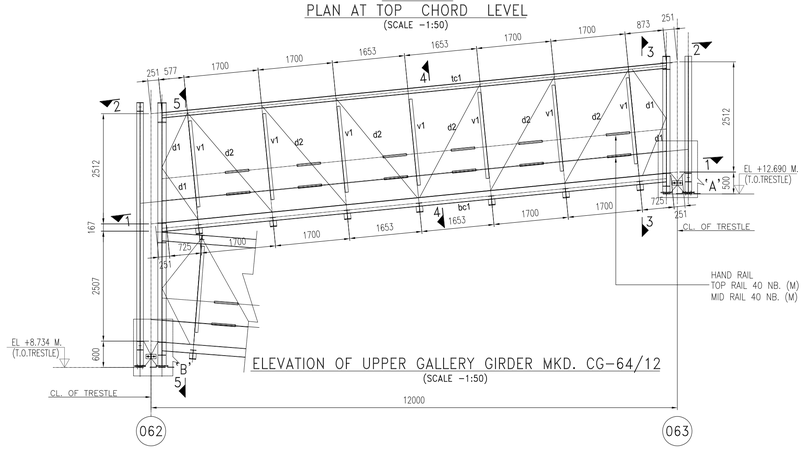
ISO 14405 ⓓ ⊕
ISO 13920-AE



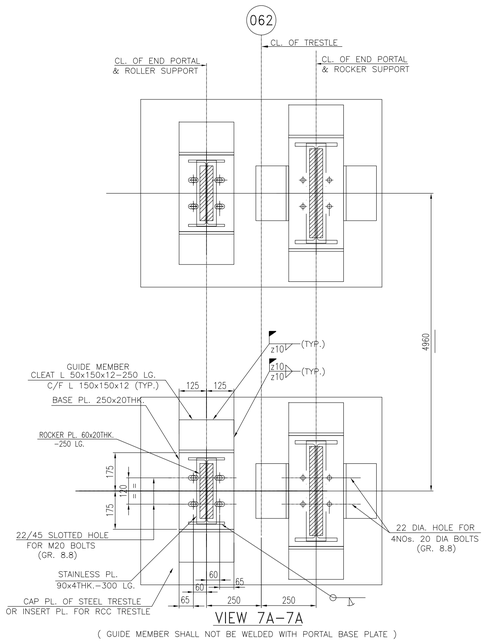
VIEW 5–5



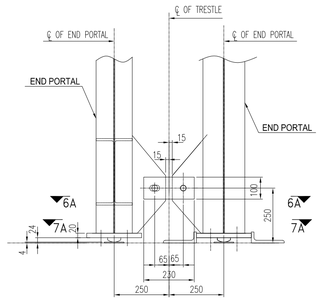
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



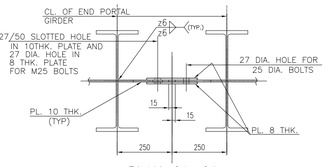
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–64/12
(SCALE –1:50)



VIEW 7A–7A
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

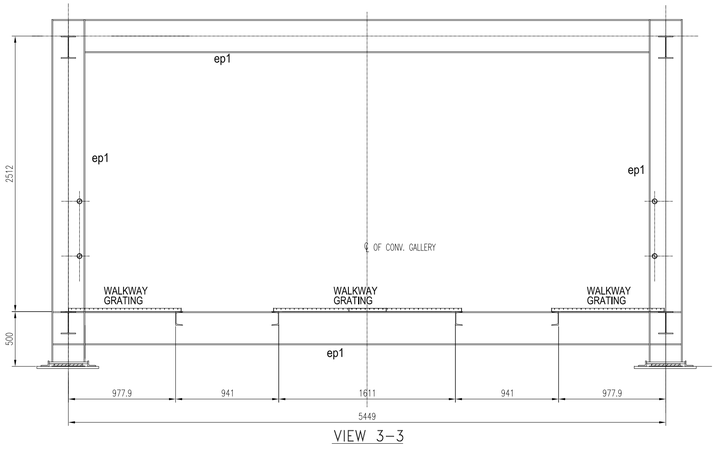


DETAIL – 'B'
(SCALE 1:10)

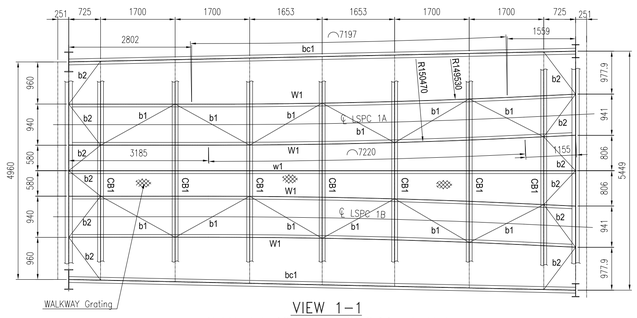


PLAN 6A–6A
(SCALE 1:10)

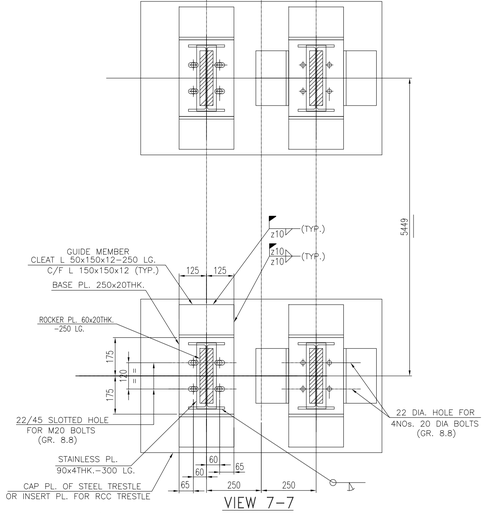
TYPICAL DET. ROCKER PL.
(SCALE 1:3)



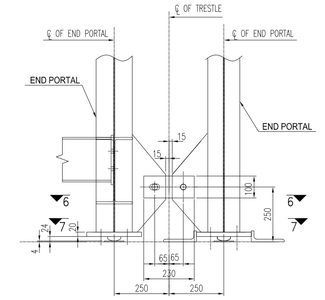
VIEW 3–3



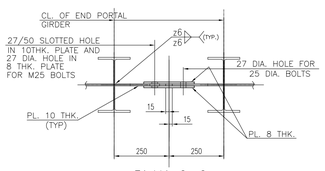
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



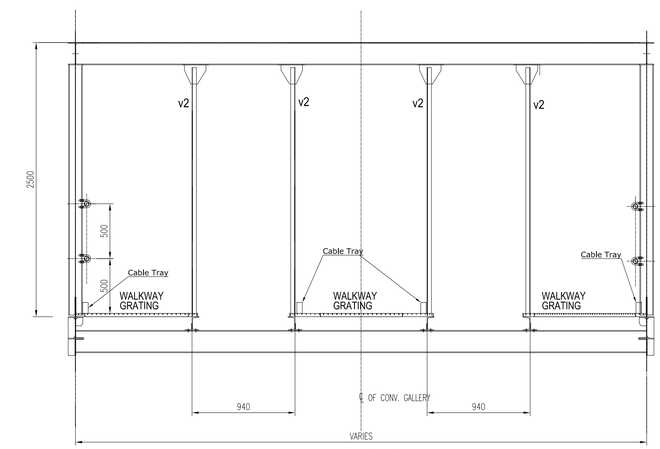
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	200
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	35
		a2	L 75x75x8	25
		t1	ISMC 125	35
2	BOTTOM CHORD	bc1	UB 203x133x25	185
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	65
		b2	L 65x65x6	55
	CROSS BEAM	CB1	UB 203x133x30	35
3	VERTICAL	v1	ISMC 150	85
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 75x75x8	150
		d2	L 75x75x8	105
5	END PORTAL	ep1	UB 457X191X82	400
		ep2	UB 305x165x40	185
6	WALK WAY STRINGER	w1	ISMC 125	60
7	FLOOR PL.		GRATING	
8	GST PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ⓔ ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-64U/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_030

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Scale: nts

Sheet/of: 1 / 1

Origin: - Replacement for: - Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: **FICHTNER** W/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

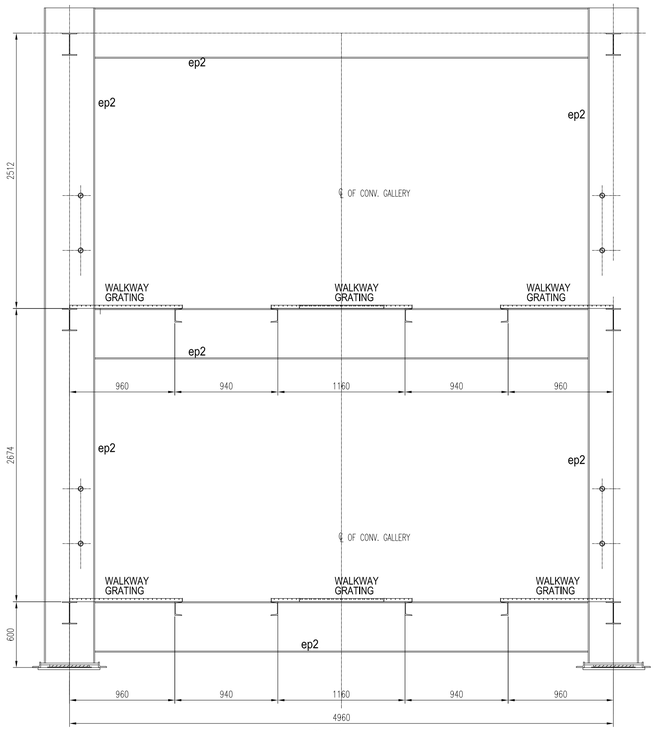
SCALE: NTS

SHEET 39 OF 54

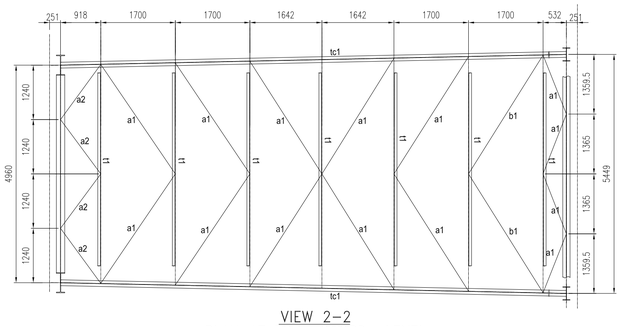
SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.: 0

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

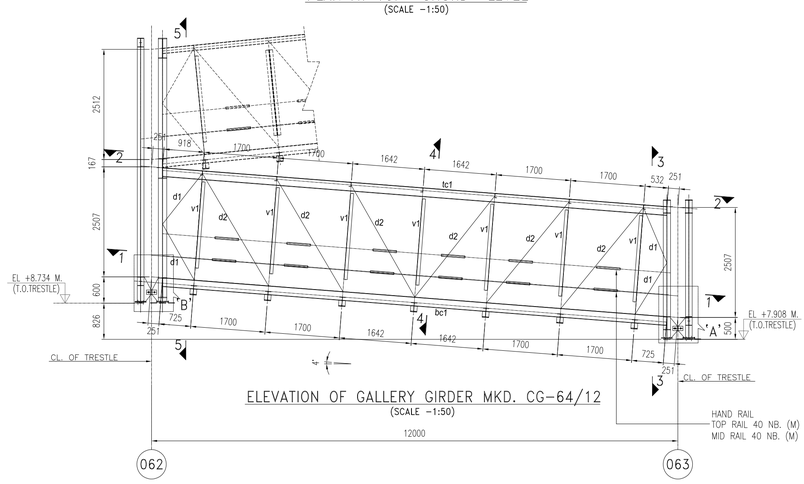
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–JSG



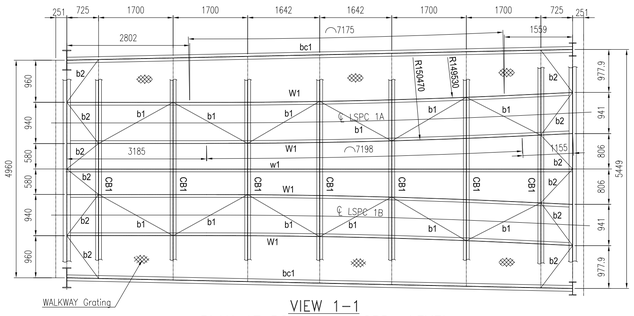
VIEW 5–5



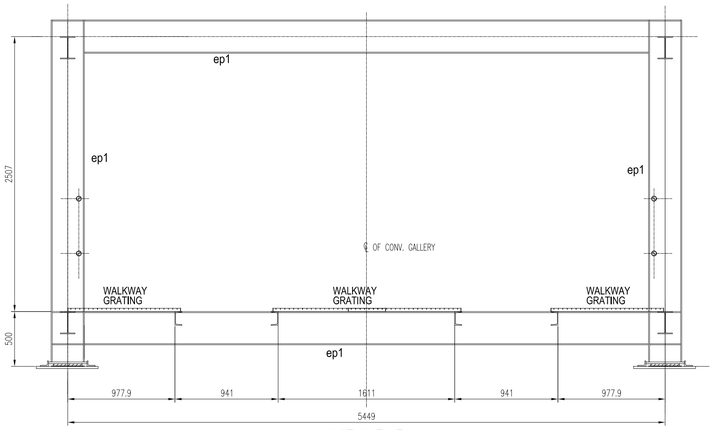
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



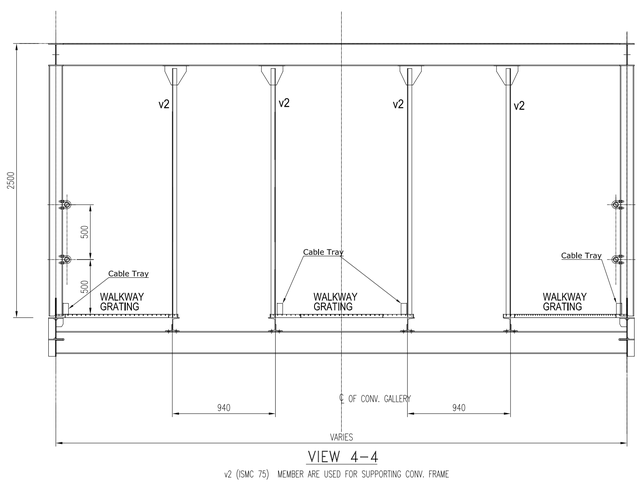
ELEVATION OF GALLERY GIRDER MKD. CG–64/12
(SCALE –1:50)



VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



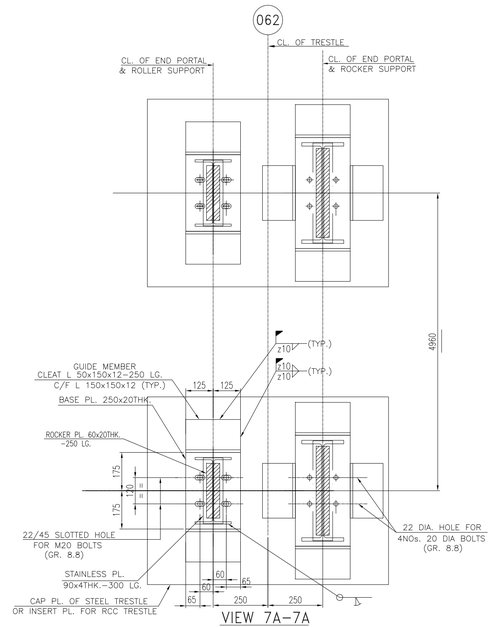
VIEW 3–3



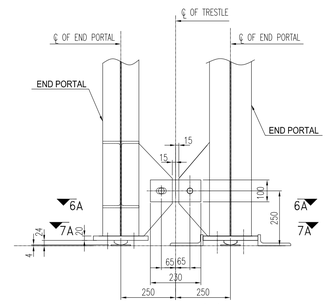
VIEW 4–4
v2 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME.

SCHEDULE OF MEMBERS FOR LSPC 12 M. GALLERY

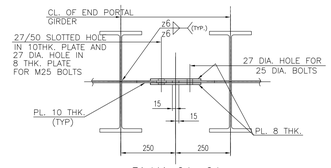
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	200
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	35
		a2	L 75x75x8	25
		t1	ISMC 125	35
2	BOTTOM CHORD	bc1	UB 203x133x25	185
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	65
		b2	L 65x65x6	55
	CROSS BEAM	CB1	UB 203x133x30	35
3	VERTICAL	v1	ISMC 150	85
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 75x75x8	150
		d2	L 75x75x8	105
5	END PORTAL	ep1	UB 457X191X82	400
		ep2	UB 305x165x40	185
6	WALK WAY STRINGER	w1	ISMC 125	60
7	FLOOR PL.		GRATING	
8	GST PLATE 8 THK.			



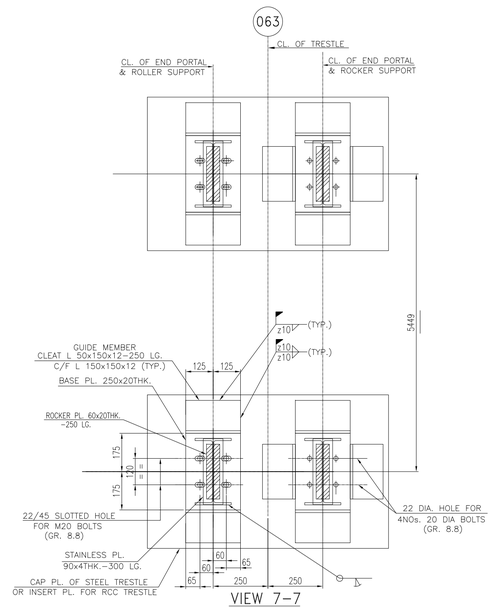
VIEW 7A–7A
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



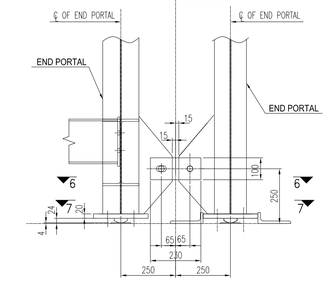
DETAIL – 'B'
(SCALE 1:10)



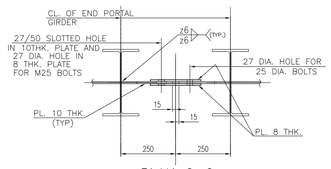
PLAN 6A–6A
(SCALE 1:10)



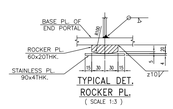
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



(SCALE 1:3)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 40 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	–
SUPERSEDED BY	–
SYSTEM	
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG
BHEL JOB NO.:	–
STATUS OF DRG.:	FOR APPROVAL
PROJECT NO.:	618–450068
ANNEX.:	–
DRAWING NO.:	----
REV.:	0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ℗ ISO 13920-A/E | Ind. | Modifikation | Ref.: - | Origin | Replacement for | Replaced by

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-64L/12 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_031

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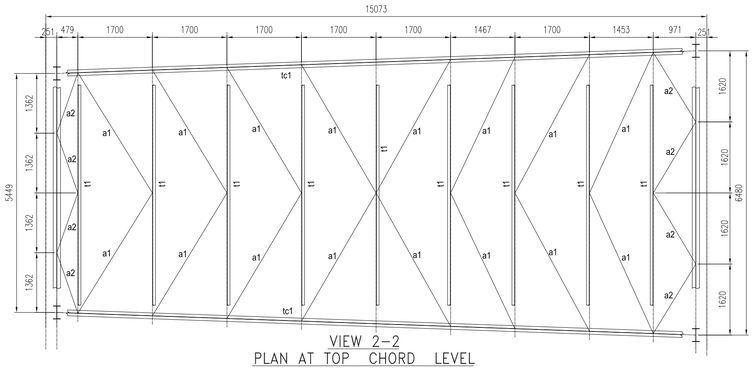
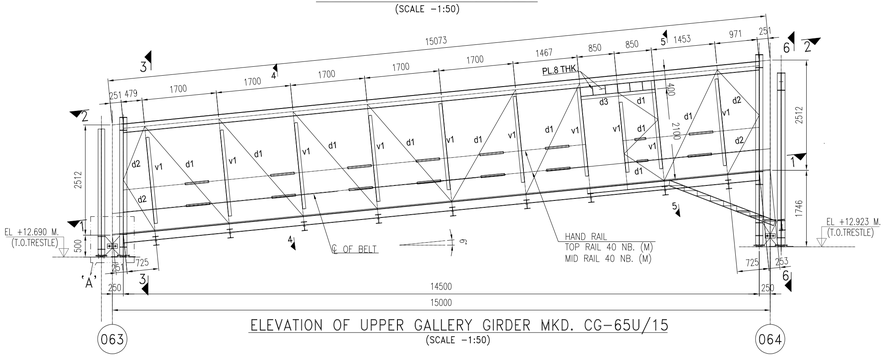
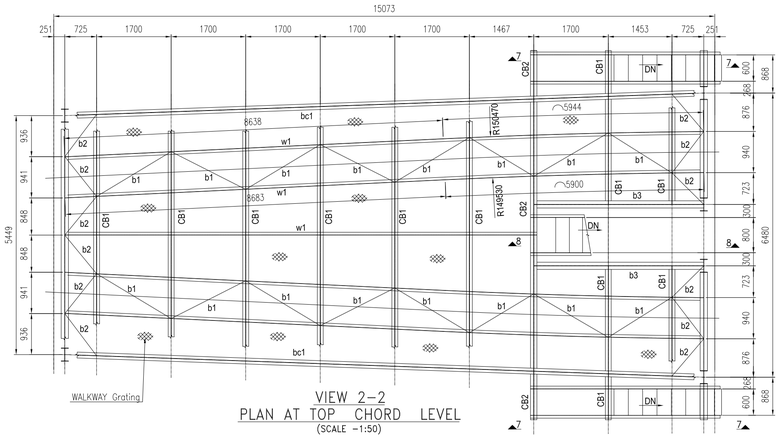


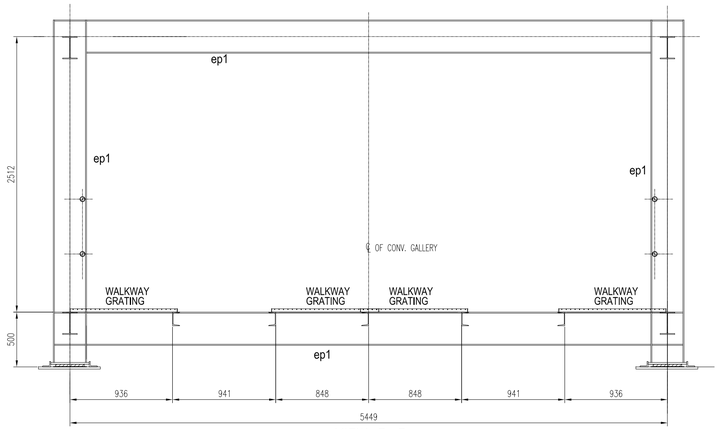
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



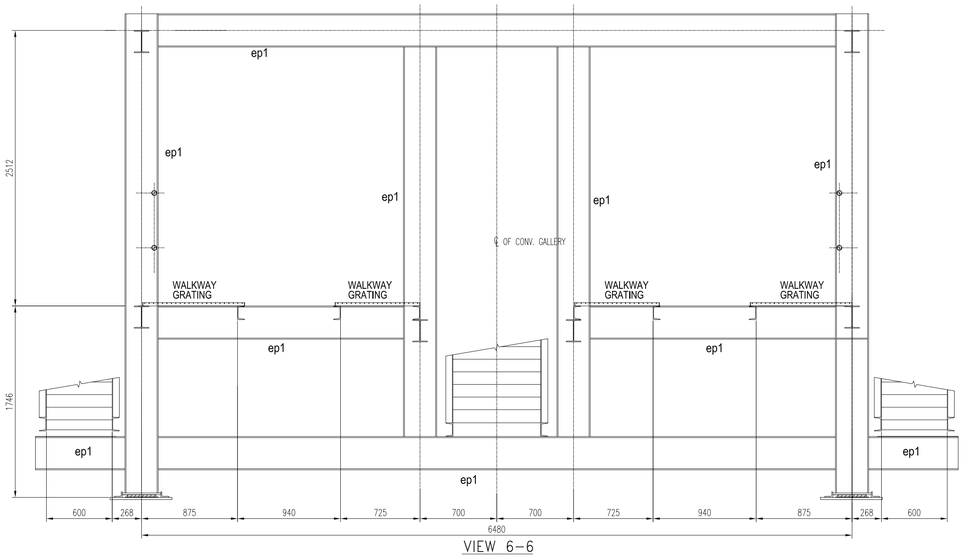
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–65U/15
(SCALE –1:50)



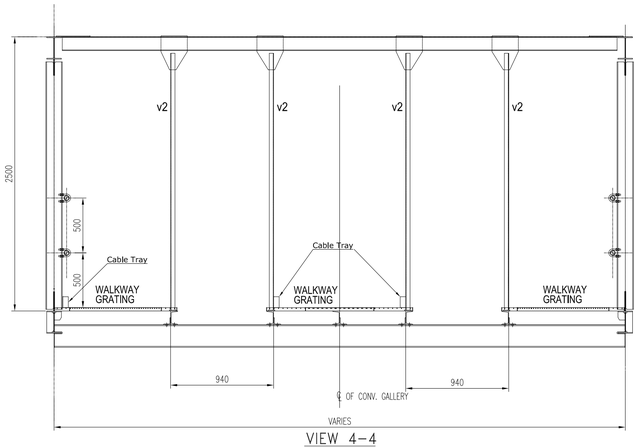
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



VIEW 3–3



VIEW 6–6



VIEW 4–4

SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	55
		a2	L 75x75x8	35
		t1	ISMC 125	50
2	BOTTOM CHORD	bc1	UB 203x133x30	260
	HORIZONTAL GIRDERS OF BOTTOM CHORD	b1	L 75x75x8	95
		b2	L 65x65x6	90
		b3	UB 203x133x25	15
	CROSS BEAM	CB1	UB 203x133x30	60
		CB2	UB 305x165x40	30
3	VERTICAL	v1	ISMC 150	115
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	190
		d2	L 75x75x8	115
		d3	ISMC 150	85
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	110
7	FLOOR PL.	6 O/P CHEQ. PL.		
8	TOP RAIL	40 NB (M) PIPE		
9	MID RAIL			
10	POST			
12	FLOOR PL.	GRATING		
12	GST. PLATE 8 THK.			

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

ISO 14405 ℄ Ind Modification Ref.: -
ISO 13920-A/E Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-65U/15
LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_032

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Scale: nts
Sheet/of 1 / 2
Replacement for: -
Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

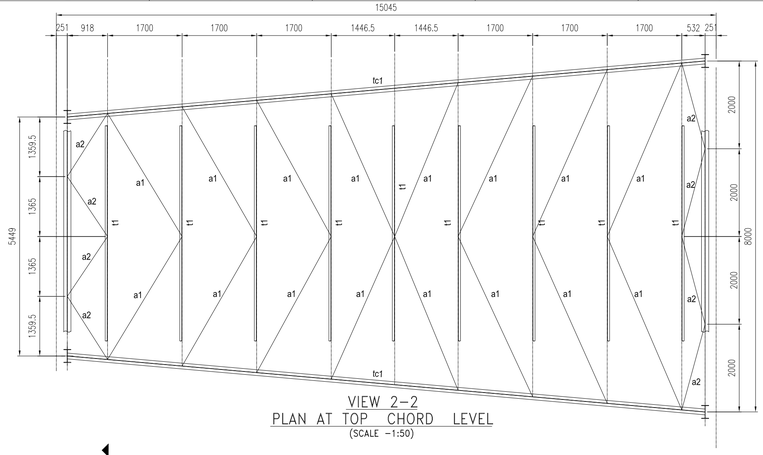
CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

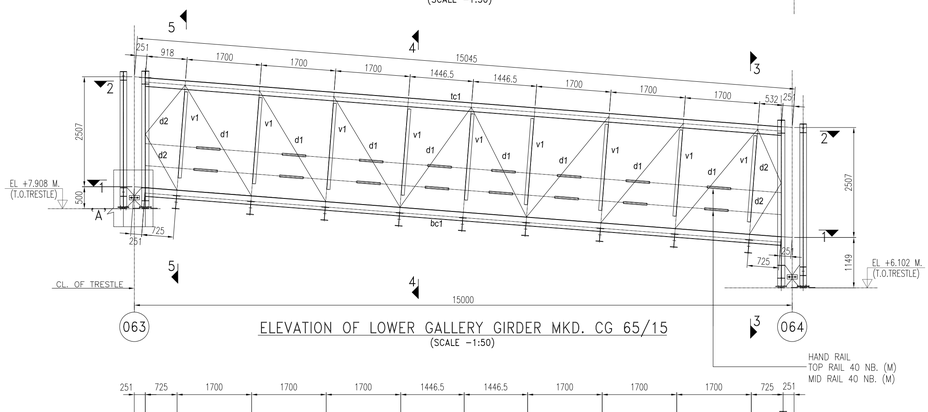
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 41 OF 54
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B
SUPERSEDES: BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY: SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
SYSTEM: ANNEX.: –
DRAWING NO.: –––––
REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

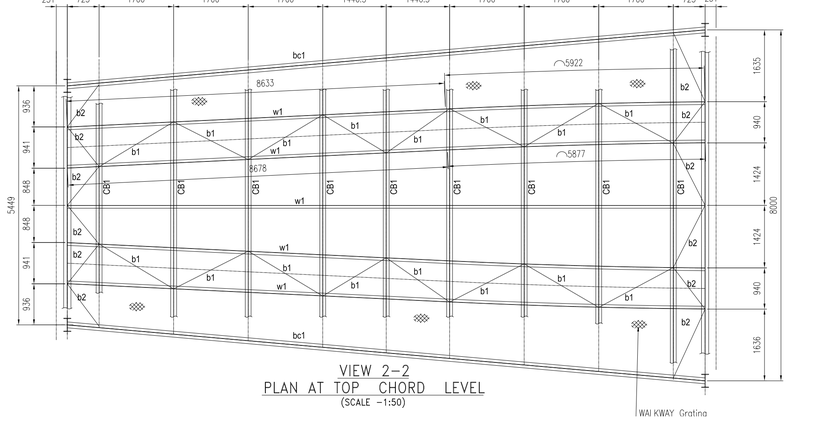


VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)

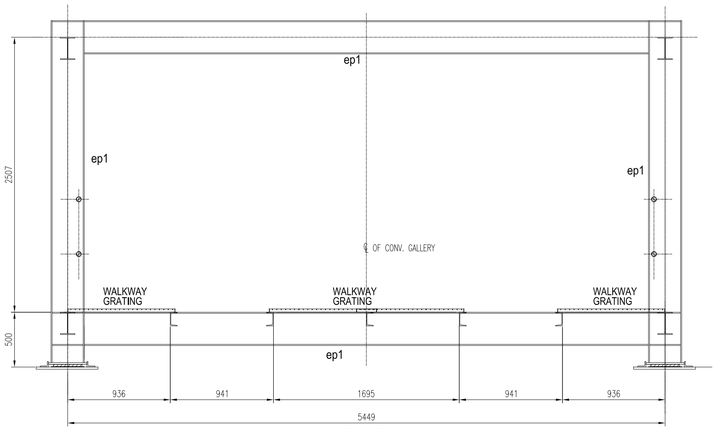


ELEVATION OF LOWER GALLERY GIRDER MKD. CG 65/15
(SCALE –1:50)

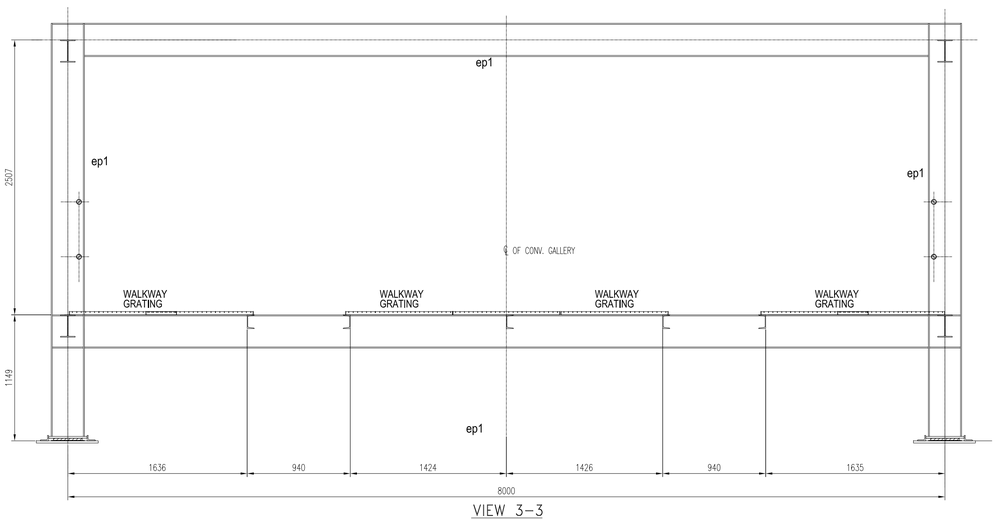
HAND RAIL
TOP RAIL 40 NB. (M)
MID RAIL 40 NB. (M)



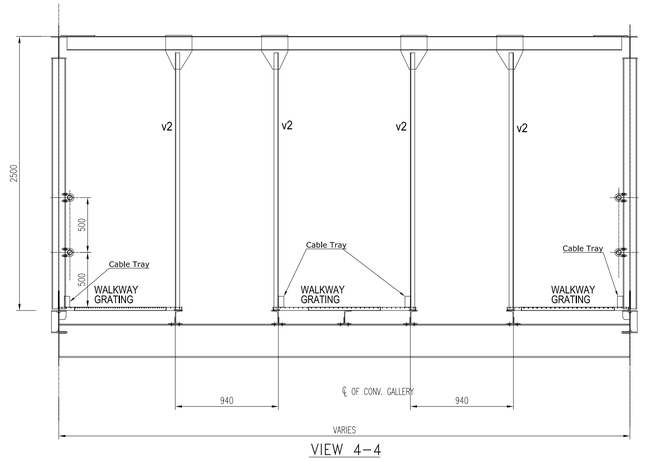
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



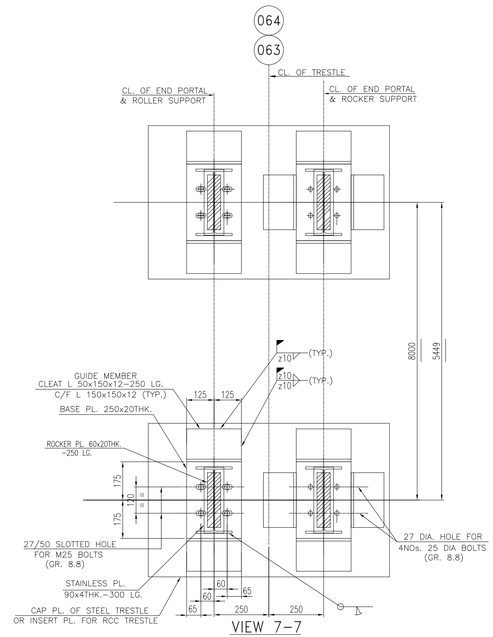
VIEW 5–5



VIEW 3–3



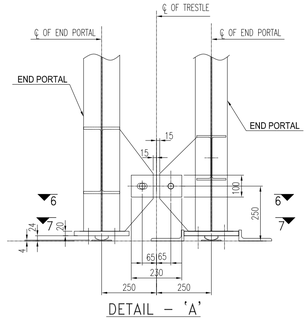
VIEW 4–4



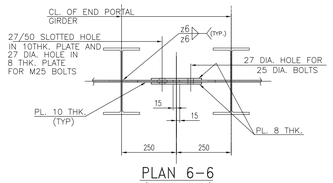
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY

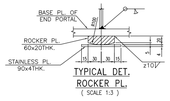
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	370
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	45
		a2	L 75x75x8	45
		t1	ISMC 125	40
2	BOTTOM CHORD	bc1	UB 203x133x25	330
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	90
		b2	L 65x65x6	80
	CROSS BEAM	CB1	UB 305x165x40	55
3	VERTICAL	v1	ISMC 150	140
		v2	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	240
		d2	L 75x75x8	145
5	END PORTAL	ep1	UB 305x165x40	280
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.	GRATING		



DETAIL – 'A'
(SCALE 1:10)



PLAN 6–6
(SCALE 1:10)



(SCALE 1:3)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contact: %SACHBE%

ISO 14405 ⓔ ISO 13920-A/E

Ind	Modification	Ref.: -
E	-	
D	-	
C	-	
B	-	
A	-	

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-65L/15 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_033

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Scale: nts

Sheet/of 1 / 1

- Replacement for | Replaced by -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN.	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS

SHEET 42 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

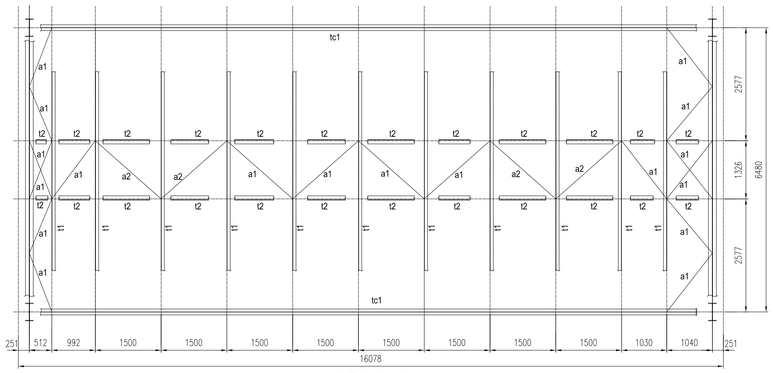
SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

STATUS OF DRG.: FOR APPROVAL

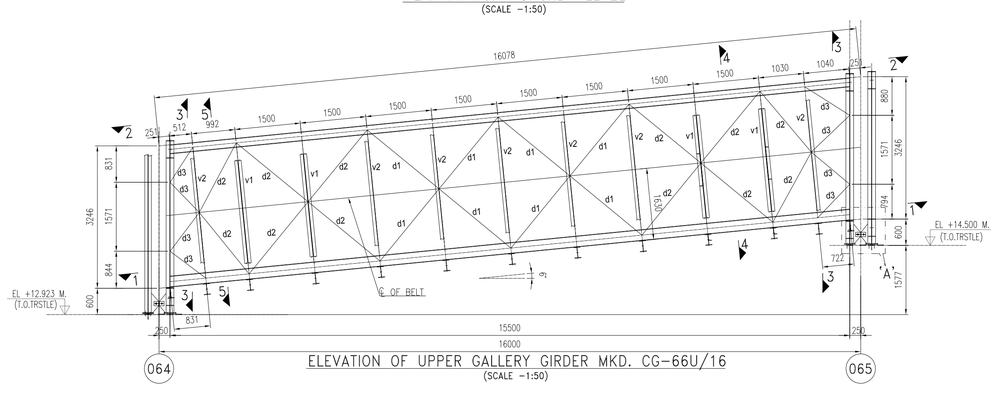
PROJECT NO.: 618–450068

DRAWING NO.: ----

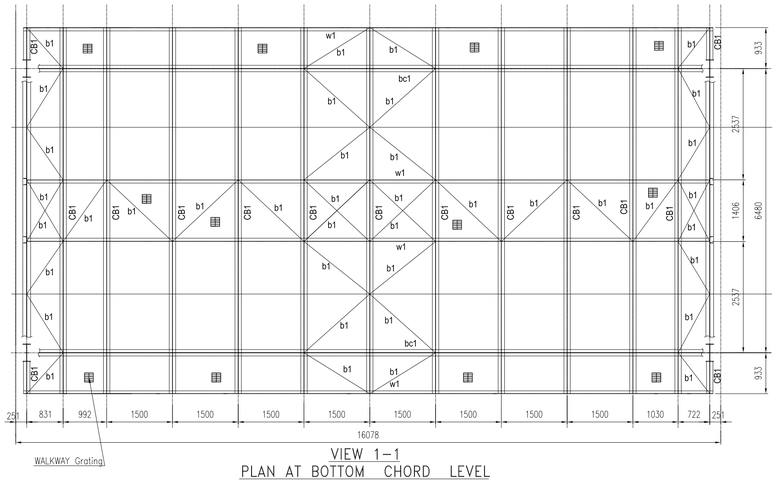
REV.: 0



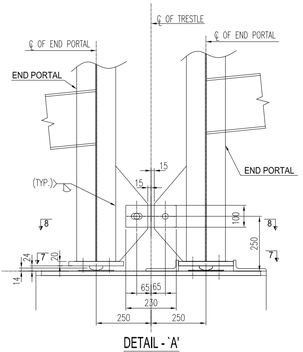
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



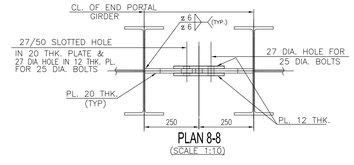
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–66U/16
(SCALE –1:50)



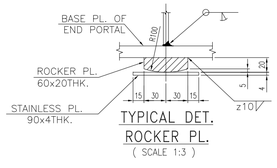
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
(SCALE –1:50)



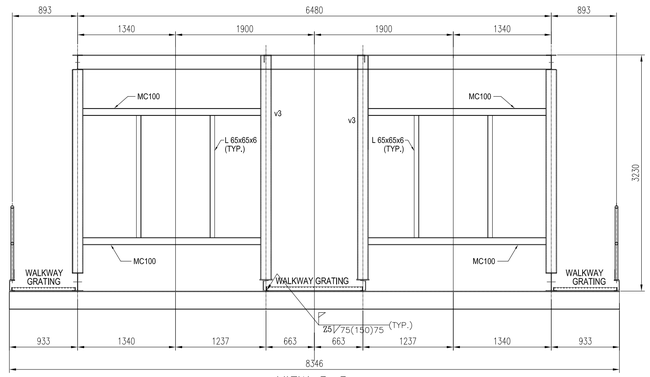
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



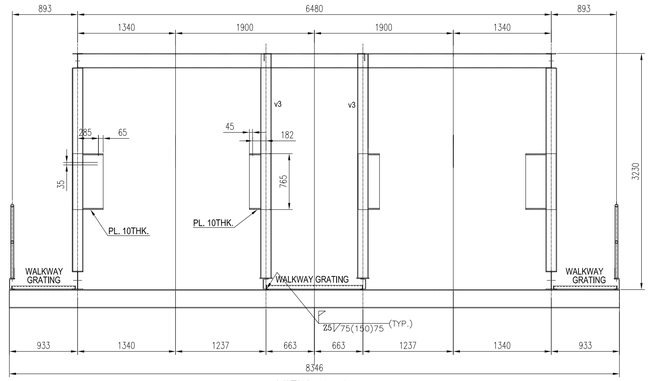
PLAN 8-8
(SCALE 1:10)



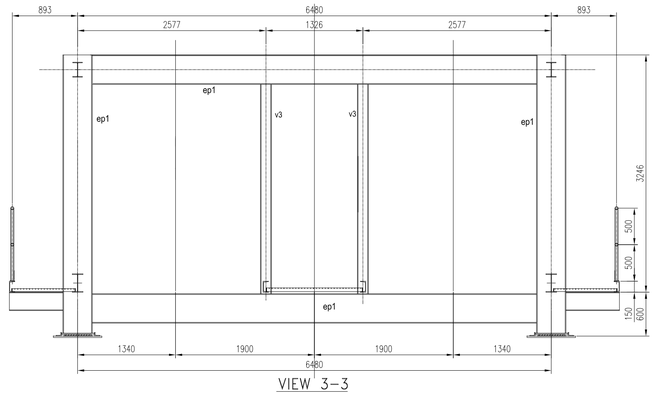
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 5–5

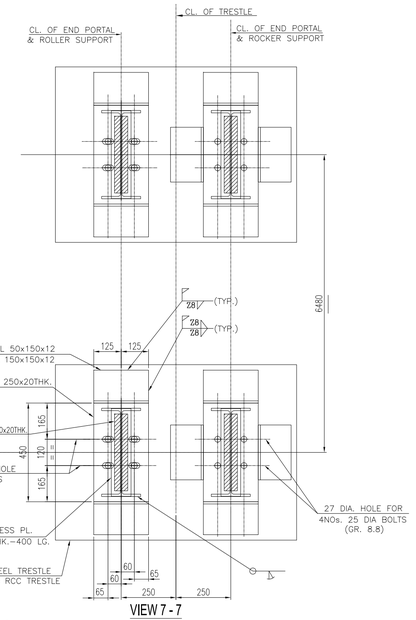


VIEW 4–4



VIEW 3–3

SCHEDULE OF MEMBERS FOR LSPC 16 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	530
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 75x75x8	180
		a2	L 100x100x10	115
		t1	ISMC 200	170
		t2	L 100x100x10	205
2	BOTTOM CHORD	bc1	UB 254x146x31	440
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	100
	CROSS BEAM	CB1	UB 254x146x31	70
3	VERTICAL	v1	2ISMC 150	50
		v2	ISMC 150	80
		v3	ISMC 150	10
4	DIAGONAL	d1	2Ls 75x75x8	100
		d2	2Ls 100x100x10	225
		d3	L 75x75x8	140
5	END PORTAL	ep1	UB 406x178x54	400
6	WALKWAY STRINGER	W1	ISMC 150	160
7	TOP RAIL	40 NB (M) PIPE		
8	MID RAIL			
9	POST			
10	TOE GUARD	SKELP 121X3.25 THK.		
11	FLOOR PL.	FLOORING WITH GRATING.		
12	GST. PLATE 8 THK.			



VIEW 7 - 7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 43 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----

STATUS OF DRG.: FOR APPROVAL | PROJECT NO.: 618–450068 | REV.: 0

CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gepr.	Contract: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-66U/16 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_034

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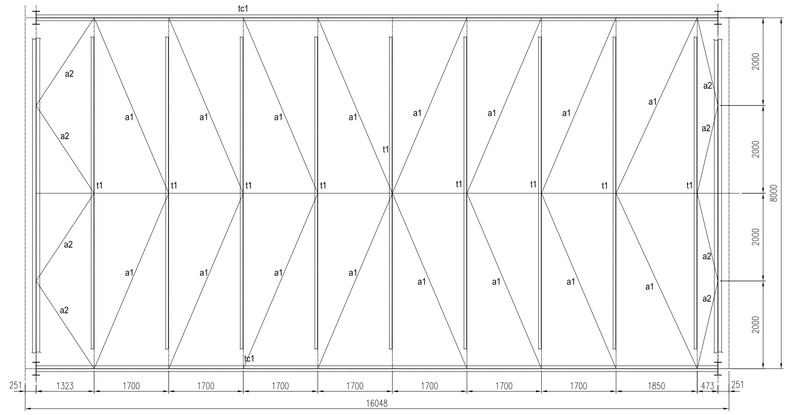
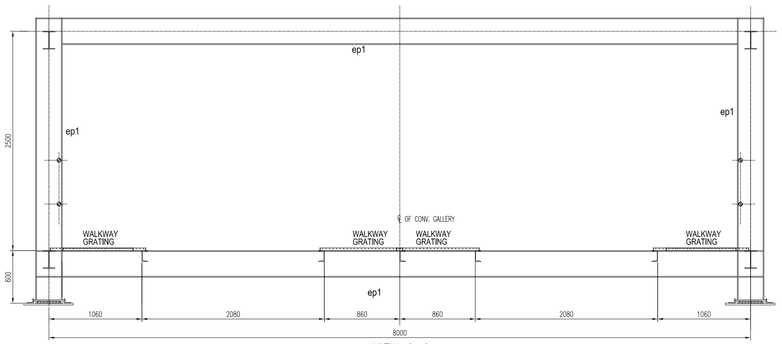
Scale: nts | Sheet/of: 1 / 1

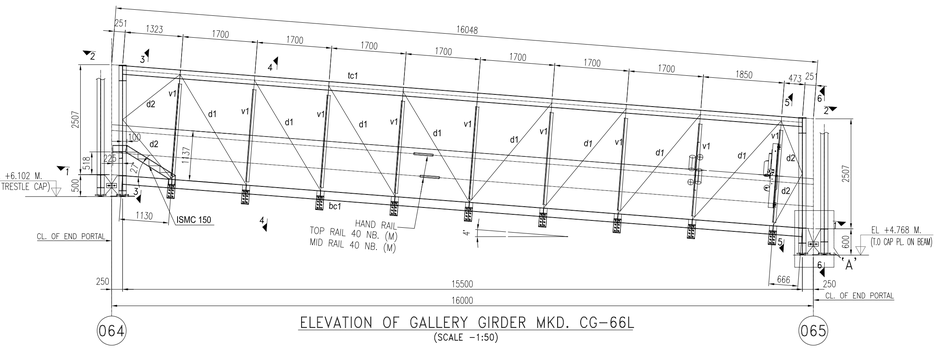
ISO 14405 | ISO 13920-A/E | Ind. | Modification | Ref.: - | Origin: - | Replacement for: - | Replaced by: -



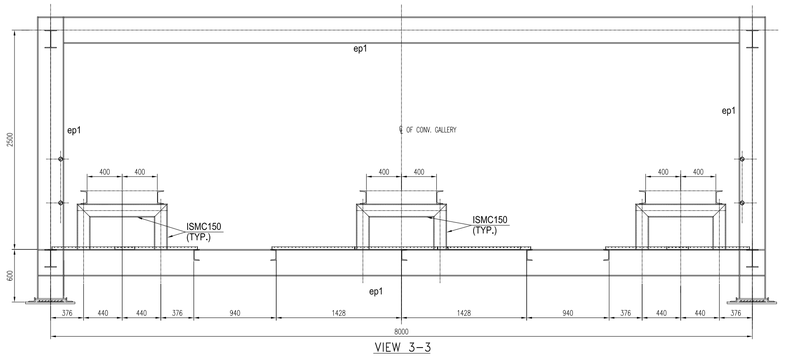
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



VIEW 6–6

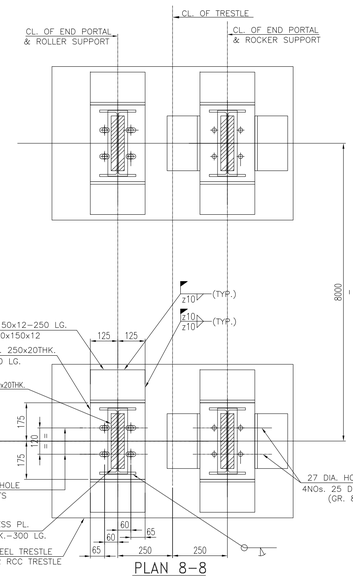


ELEVATION OF GALLERY GIRDER MKD. CG–66L
(SCALE –1:50)

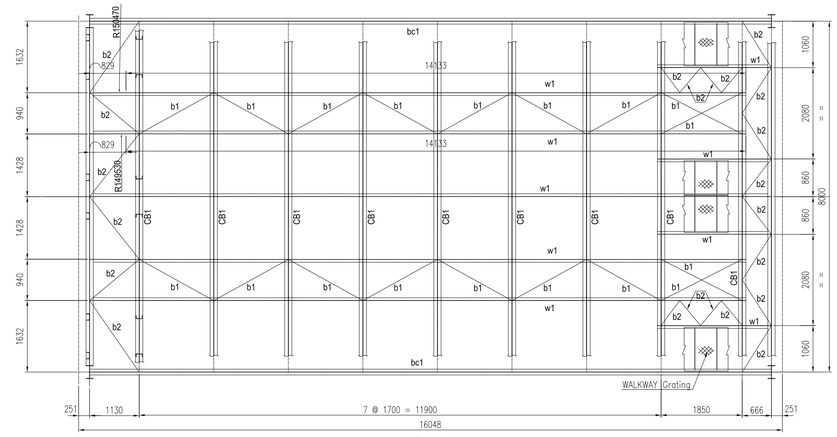


VIEW 3–3

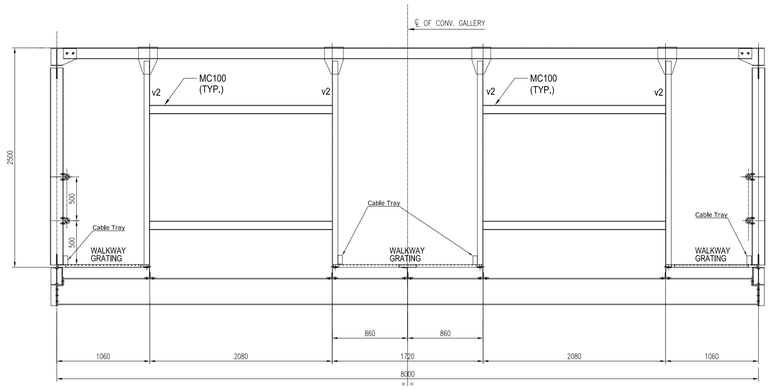
SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	380
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	55
		a2	L 75x75x8	55
		t1	ISMC 125	50
2	BOTTOM CHORD	bc1	UB 203x133x25	340
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	90
		b2	L 65x65x6	90
	CROSS BEAM	CB1	UB 305x165x40	90
3	VERTICAL	v1	ISMC 150	150
		v2	ISMC 125	10
		v3	ISMC 75	10
4	DIAGONAL	d1	2Ls 65x65x6	250
		d2	L 75x75x8	155
5	END PORTAL	ep1	UB 305x165x40	290
6	WALK WAY STRINGER	w1	ISMC 125	90
7	FLOOR PL.		Grating	



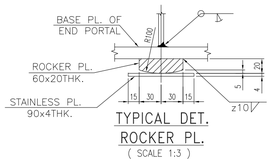
PLAN 8–8
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



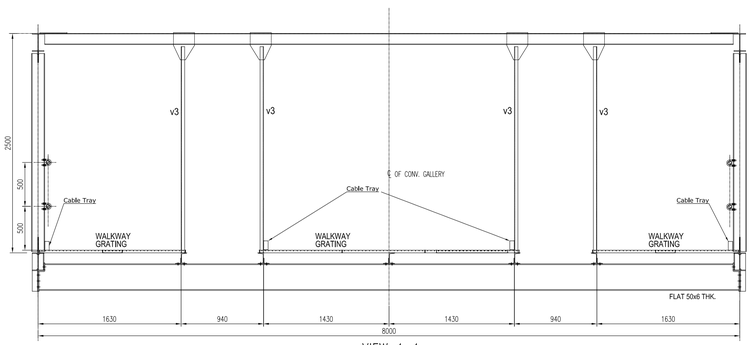
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



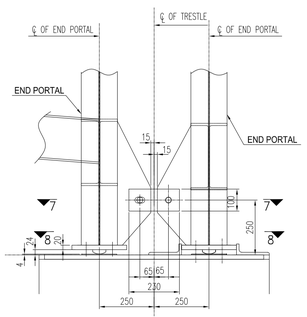
VIEW 5–5



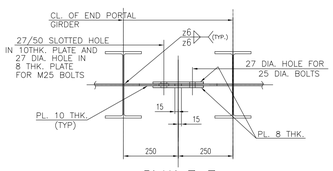
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 4–4
v3 (ISMC 75) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



DETAIL – 'A' (TYP.)
(SCALE 1:10)



PLAN 7–7
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%AT%	Order.No.:	618–450068	
Basu	13/08/2019	Issued	Tech.Pos.:	-	Designation STRUCTURAL GA OF GALLERY MKD. CG-66L/16 LSPC 1A/1B
Mallick	14/08/2019	Gear.	Contact:	%SACHBE%	
-		E	-		Drawing No. S18_45068_LSPC 1AB_LD_035
-		D	-		
-		C	-		This document and all data contained herein are confidential and exclusive property of BEUMER Group. Any unauthorized reproduction, use or disclosure or any kind of supply to others is strictly forbidden without express prior written consent. Refer to Protection Notice ISO 16016.
-		B	-		Scale nts
-		A	-		
ISO 14405		Ind	Modification	Ref.: -	Sheet/of 1 / 1
ISO 13920-A/E			Origin	-	Replacement for - Replaced by -

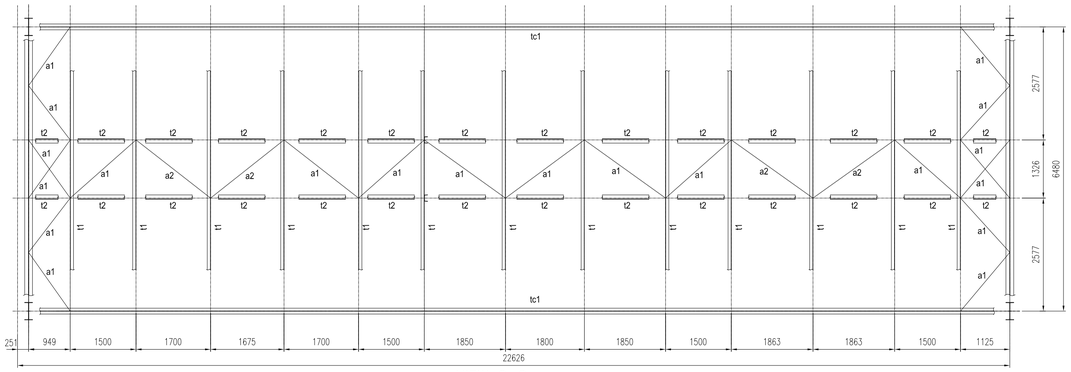
4				
3				
2				
1				
REV	DATE	DRN/CHD/APPD	DESCRIPTION/NOTE	

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

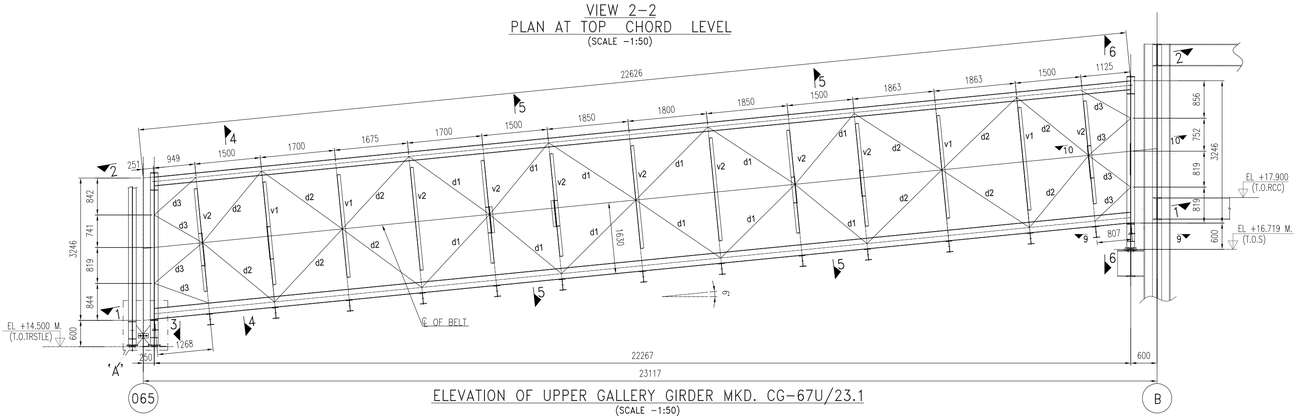
CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

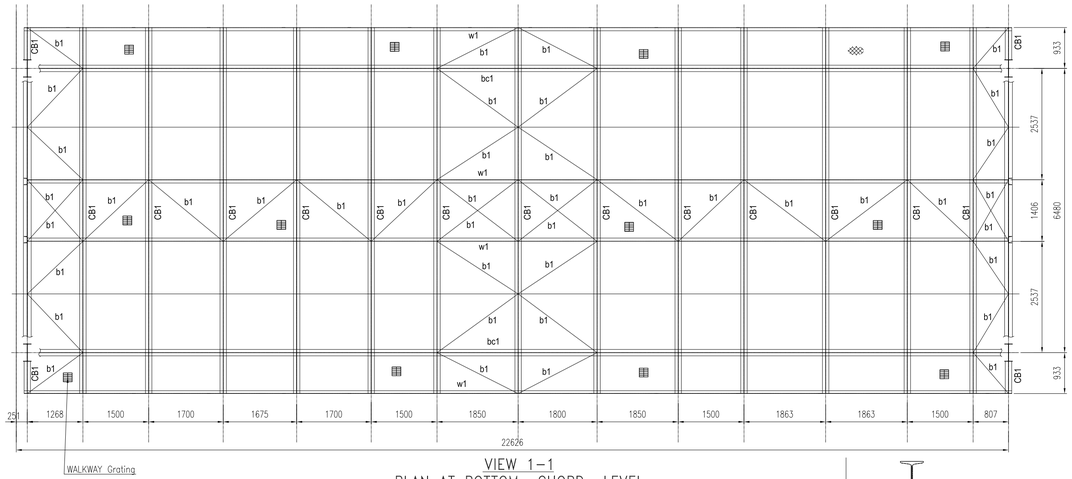
	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	10.12.2018	BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany	NTS
CHD	–	11.12.2018		SHEET 44
APPD	–	11.12.2018	TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B	OF 54
SUPERSEDES			BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM			ANNEX.: – DRAWING NO.: ----	REV.: 0
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177353–ISG				



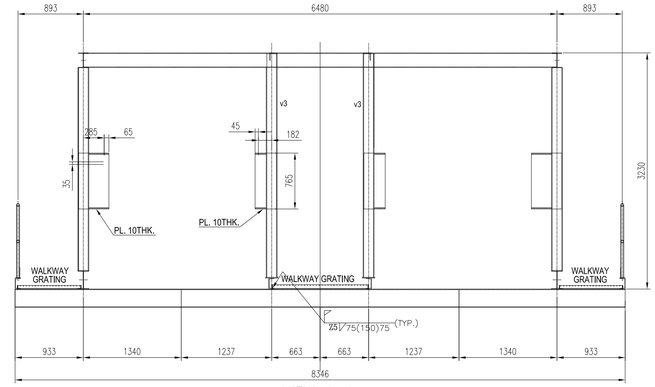
VIEW 2–2
PLAN AT TOP CHORD LEVEL
(SCALE –1:50)



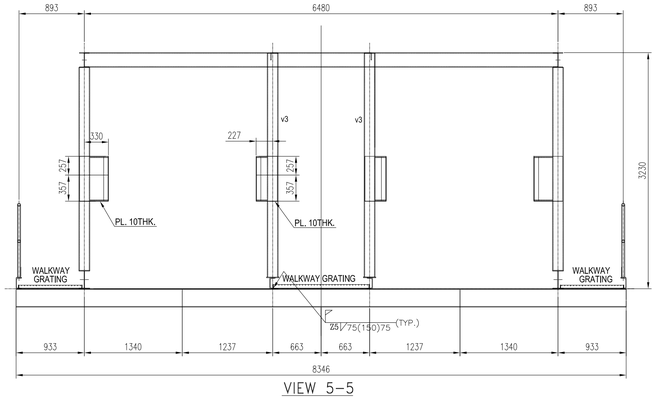
ELEVATION OF UPPER GALLERY GIRDER MKD. CG–67U/23.1
(SCALE –1:50)



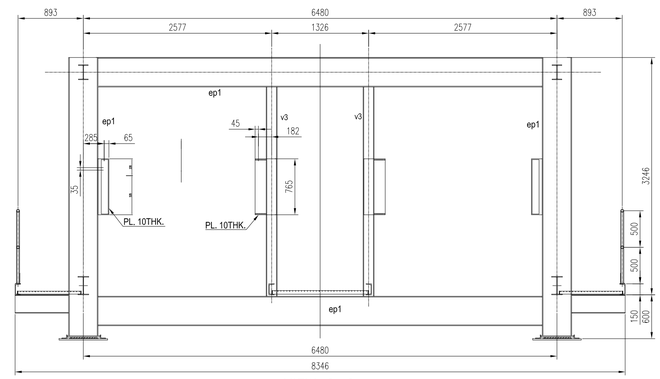
VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
(SCALE –1:50)



VIEW 4–4



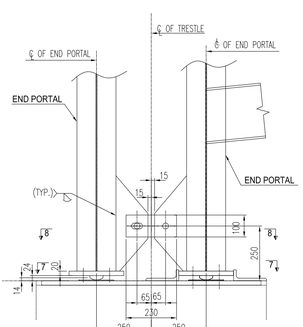
VIEW 5–5



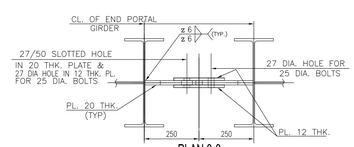
VIEW 6–6

SCHEDULE OF MEMBERS FOR LSPC 23 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	530
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 75x75x8	180
		a2	L 100x100x10	115
		t1	ISMC 200	170
		t2	L 100x100x10	205
2	BOTTOM CHORD	bc1	UB 254x146x31	440
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	100
	CROSS BEAM	CB1	UB 254x146x31	70
3	VERTICAL	v1	2ISMC 150	50
		v2	ISMC 150	80
		v3	ISMC 150	10
4	DIAGONAL	d1	2Ls 75x75x8	100
		d2	2Ls 100x100x10	225
		d3	L 75x75x8	140
5	END PORTAL	ep1	UB 406x178x54	400
6	WALKWAY STRINGER	W1	ISMC 150	160
7	TOP RAIL	40 NB (M) PIPE		
8	MID RAIL			
9	POST			
10	TOE GUARD	SKELP 121X3.25 THK.		
11	FLOOR PL.	FLOORING WITH GRATING.		
12	GST. PLATE 8 THK.			

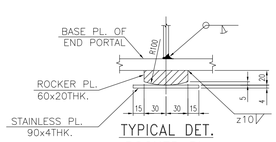
VIEW 7 - 7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



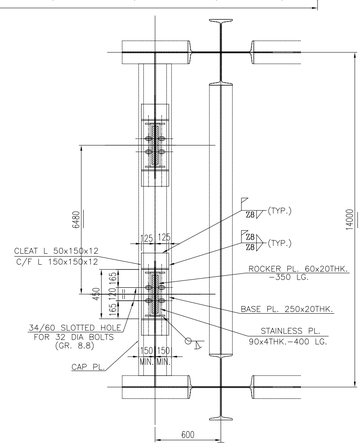
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



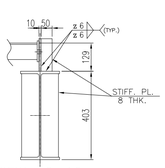
PLAN 8-8
(SCALE 1:10)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 9–9



VIEW 10–10

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67U/23.1 LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_036

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Scale: nts
Sheet/of: 1 / 1

Origin: - Replacement for: - Replaced by: -

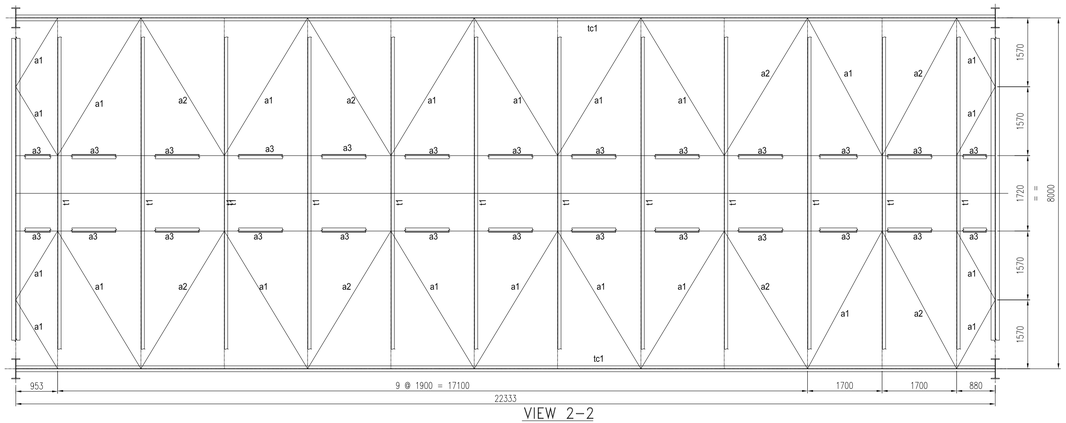
REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

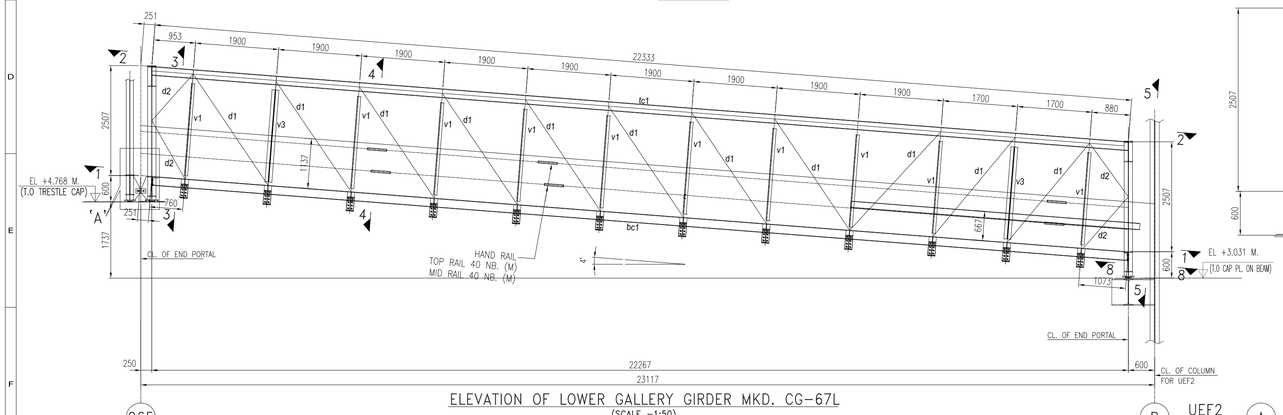
CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

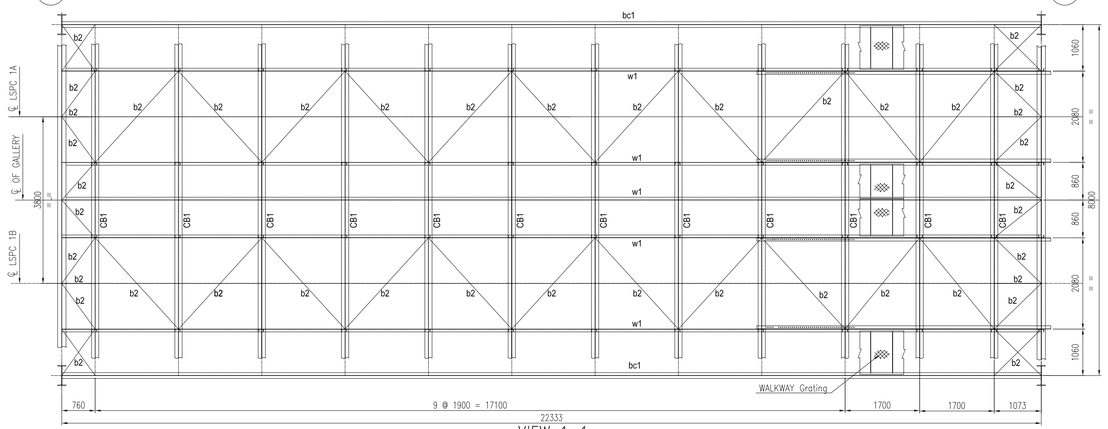
	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	10.12.2018	BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinenfabrik,Germany	NTS
CHD	–	11.12.2018		SHEET 45
APPD	–	11.12.2018	TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B	OF 54
SUPERSEDES			BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM			ANNEX.: – DRAWING NO.: ----	REV.: 0
CUSTOMER DRAWING NO.:			Maitree–00–UED–LC–177353–ISG	



VIEW 2–2

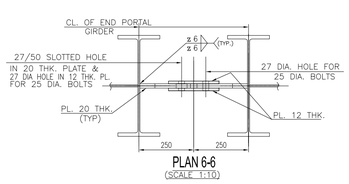


ELEVATION OF LOWER GALLERY GIRDER MKD. CG–67L
(SCALE –1:50)

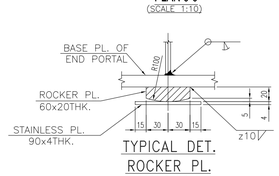


VIEW 1–1
PLAN AT BOTTOM CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW WALKWAY LEVEL
(SCALE –1:50)

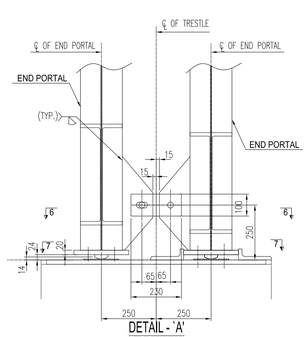
SCHEDULE OF MEMBERS FOR LSPC CG–67L GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x30	600
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	100
		a2	L 110x110x10	215
		a3	L 100x100x10	135
		t1	ISMC 150	80
2	BOTTOM CHORD	bc1	UB 203x133x30	650
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	200
	CROSS BEAM	CB1	UB 305x165x40	170
3	VERTICAL	v1	ISMC 150	185
		v2	ISMC 125	10
		v3	2 ISMC 150	250
4	DIAGONAL	d1	2Ls 75x75x8	370
		d2	L 90x90x8	220
5	END PORTAL	ep1	UB 457x191x82	370
6	WALK WAY STRINGER	w1	ISMC 125	135
7	FLOOR PL.	Grating		
8	GST. PLATE 8 THK.			



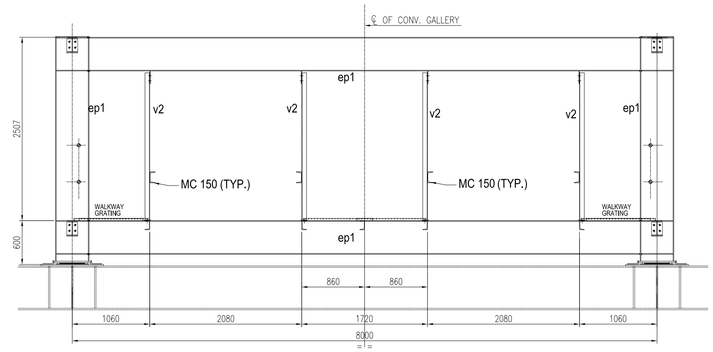
PLAN 6-6
(SCALE 1:10)



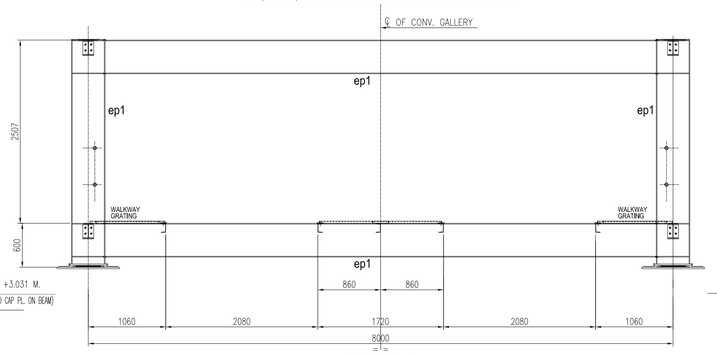
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



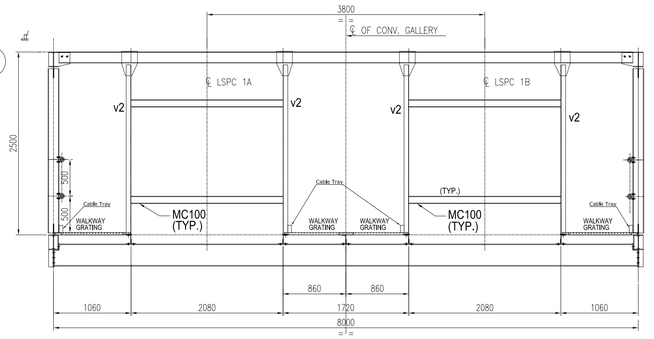
DETAIL - 'A'
SHOWING GIRDER CONN. WITH END PORTAL



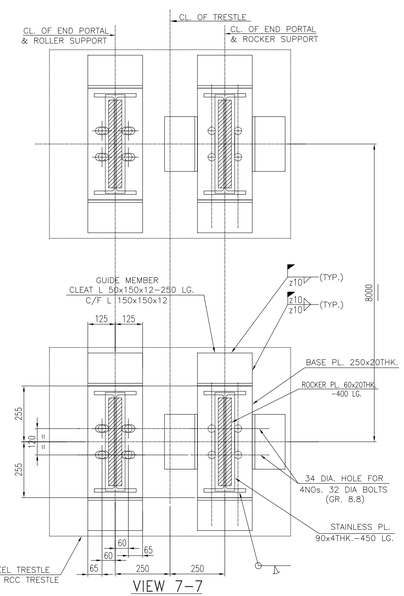
VIEW 5–5
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



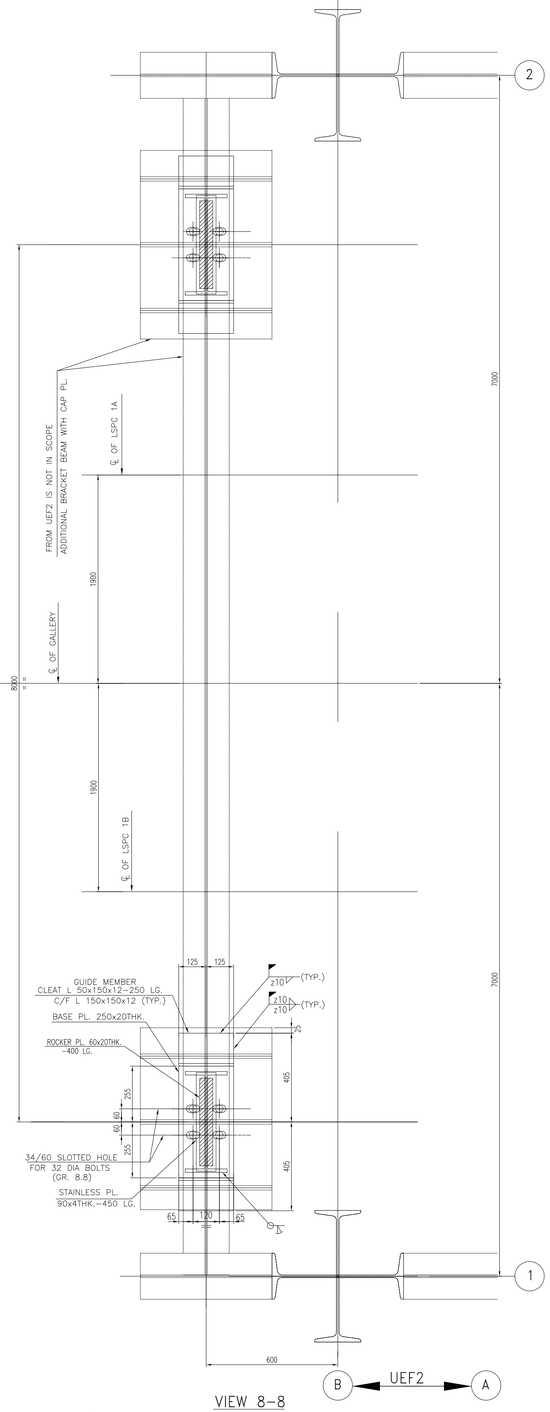
VIEW 3–3



VIEW 4–4
v2 (MC 125) MEMBER ARE USED FOR SUPPORTING CONV. FRAME



VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



VIEW 8–8
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ℄ Ind. Modifikation Ref.: -
ISO 13920-A/E Origin - Replacement for - Replaced by -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_037

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Scale: nts
Sheet/of 1 / 1

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

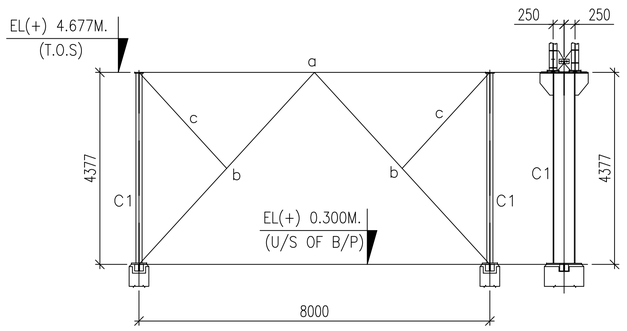
	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

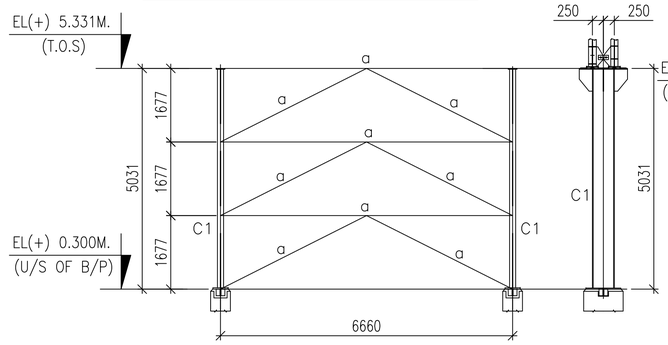
SCALE: NTS
SHEET: 46
OF: 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

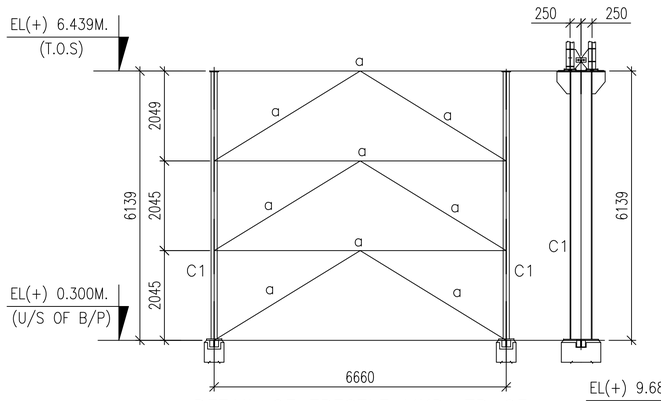
SUPERSEDES	
SUPERSEDED BY	
SYSTEM	
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG
BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
ANNEX.: – DRAWING NO.: ----	REV.: 0



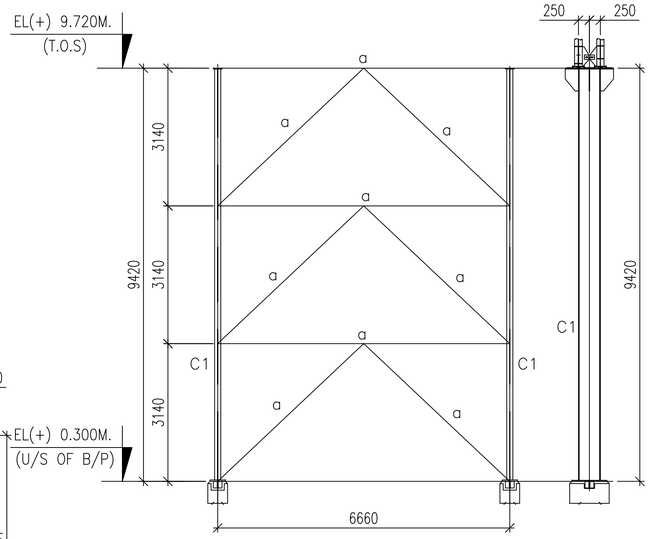
DETAIL OF TRESTLE MKD. TR-01



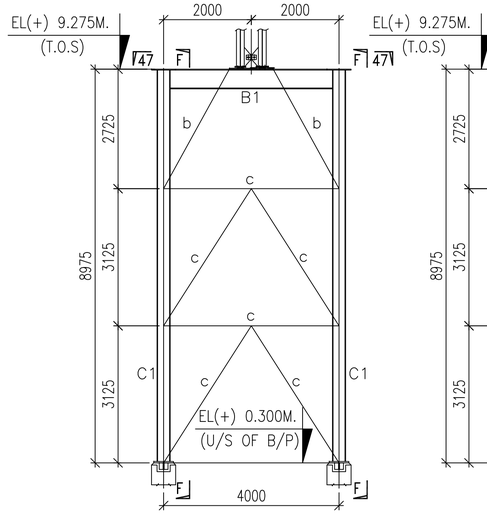
DETAIL OF TRESTLE MKD. TR-02
(TYPE-1)



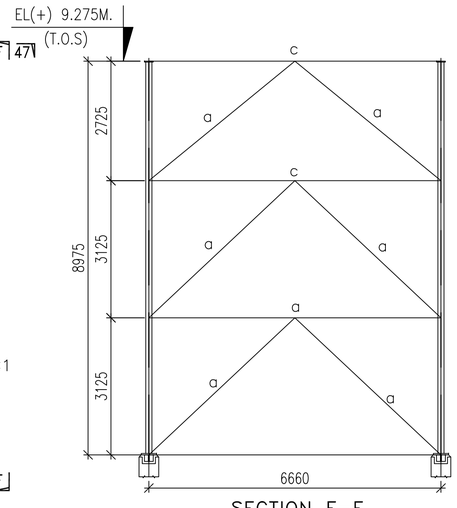
DETAIL OF TRESTLE MKD. TR-03
(TYPE-1)



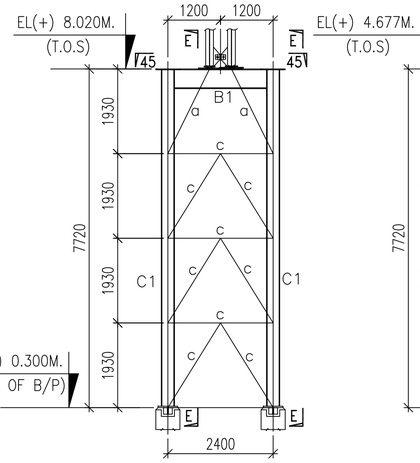
DETAIL OF TRESTLE MKD. TR-05
(TYPE-1)



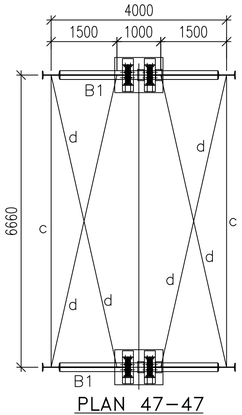
DETAIL OF TRESTLE MKD. TR-07



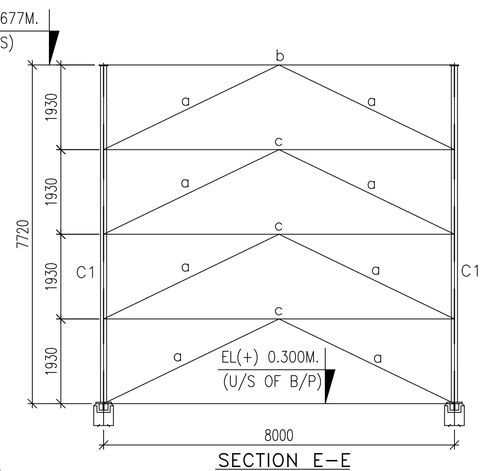
SECTION F-F



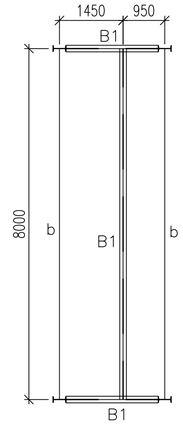
DETAIL OF TRESTLE MKD. TR-06



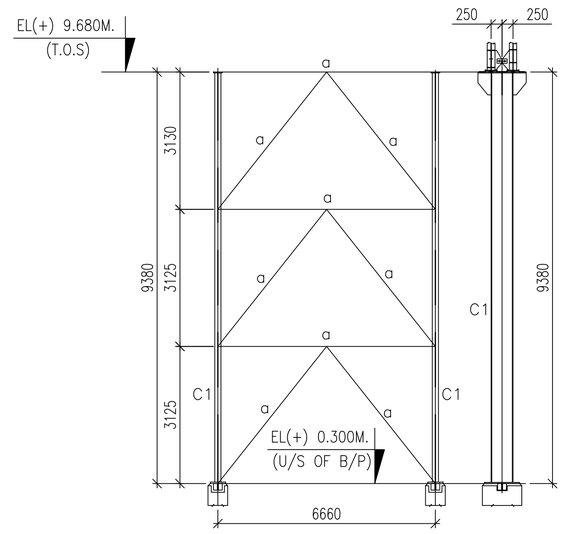
PLAN 47-47



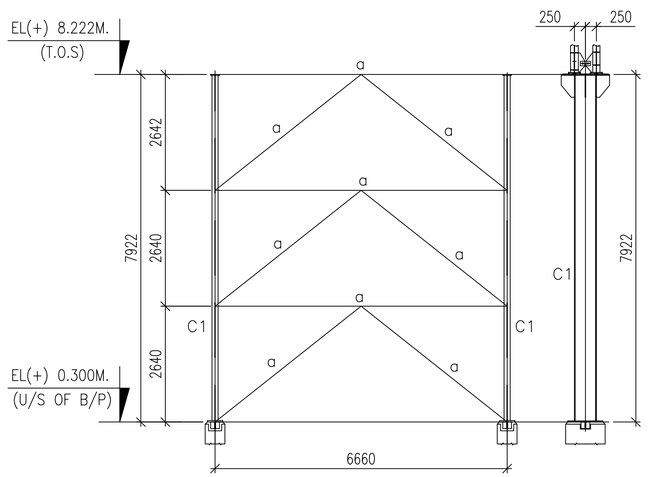
SECTION E-E



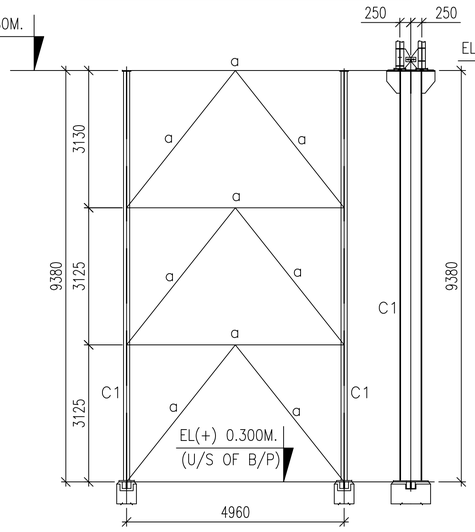
PLAN 46-46



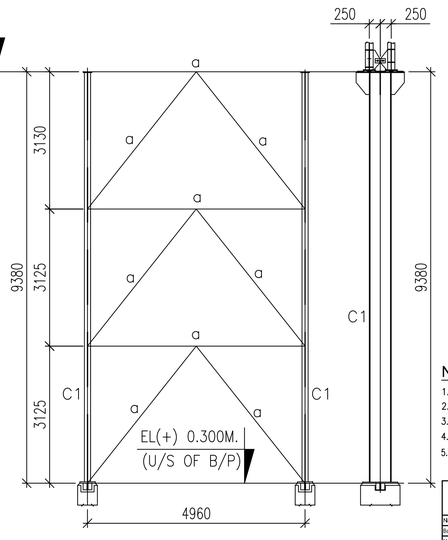
DETAIL OF TRESTLE MKD. TR-08
(TYPE-1)



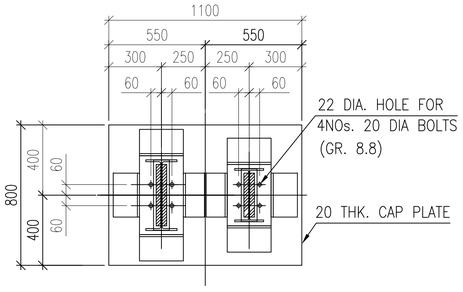
DETAIL OF TRESTLE MKD. TR-04
(TYPE-1)



DETAIL OF TRESTLE MKD. TR-11,12,14 TO 19,21,22,25,27 TO 31,35 TO 38,41 TO 44 47,48,09,10,32,49,23,24,40,46 & 34
(TYPE-2)



DETAIL OF TRESTLE MKD. TR-61



TYP. DETAIL OF CAP PLATE
(FOR ALL 2 LEG. TRESTLE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE: NTS

SHEET 47 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree-00-UED-LC-177353-ISG

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068
DRAWING NO.: ----
REV.: 0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gnor.	Contact:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_037

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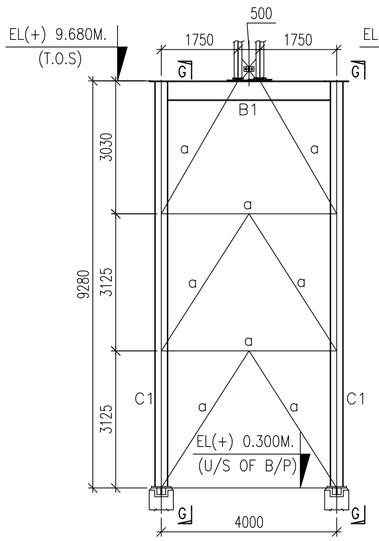
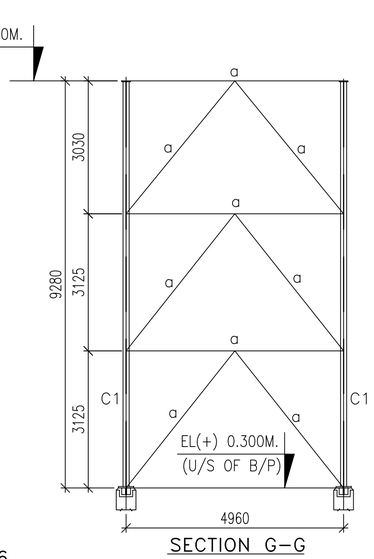
ISO 14405 ISO 13920-A/E

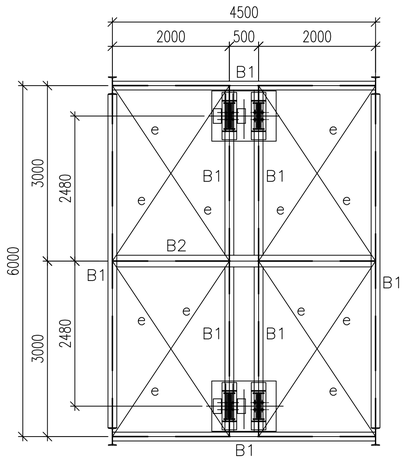
Scale: nts
Sheet/of: 1 / 1
Origin: -
Replacement for: -
Replaced by: -



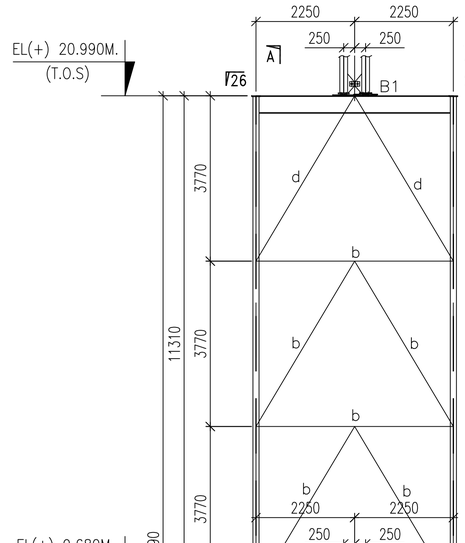
DETAIL OF TRESTLE MKD. TR-13,20,26, 33,39 & 45 (TYPE-3)



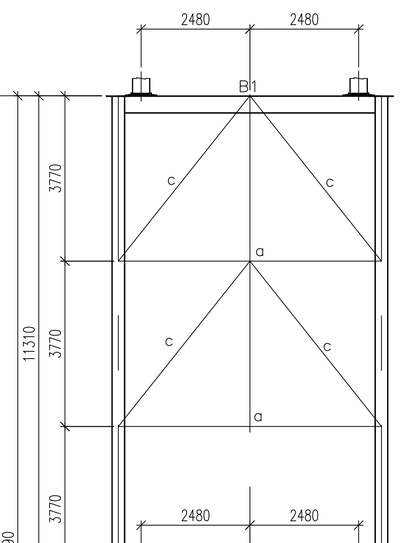
SECTION G-G



PLAN 25-25



DETAIL OF TRESTLE MKD. TR-60



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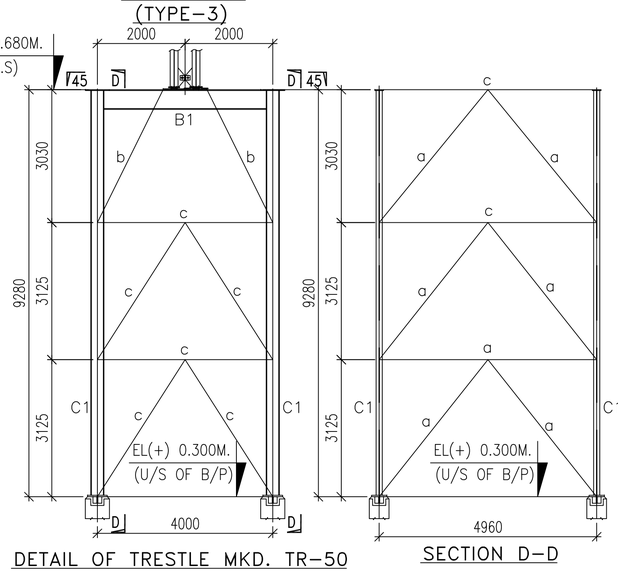
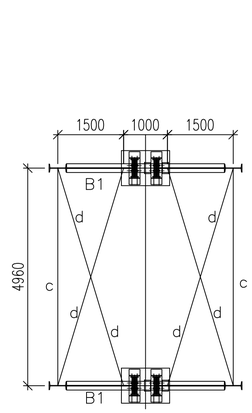
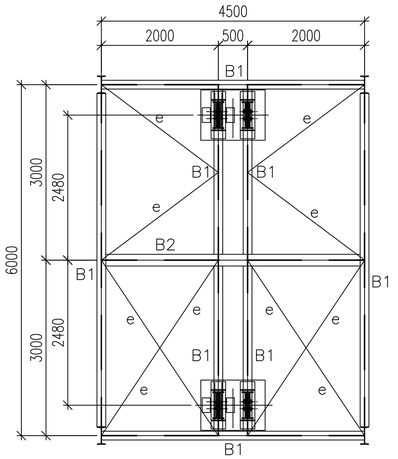


DETAIL OF TRESTLE MKD. TR-50

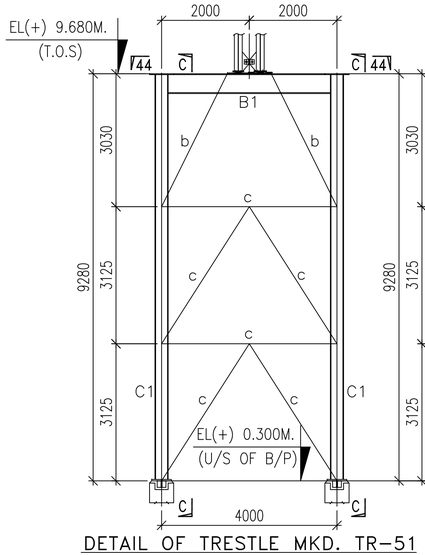
SECTION D-D



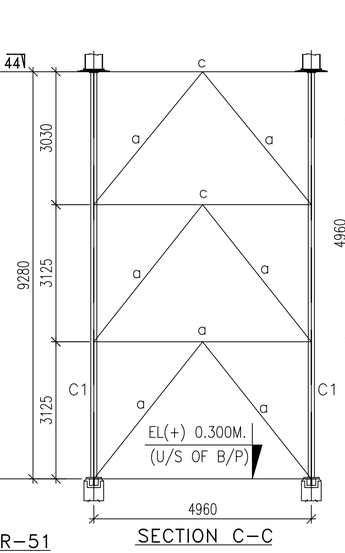
PLAN 45-45



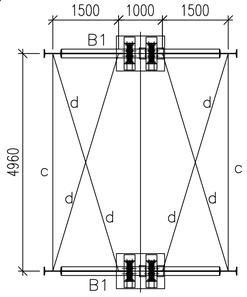
PLAN 26-26



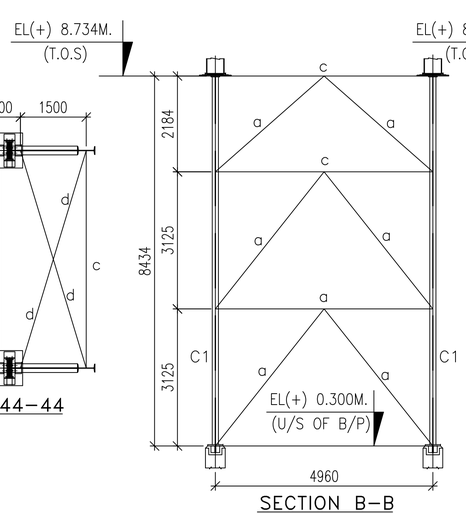
DETAIL OF TRESTLE MKD. TR-51



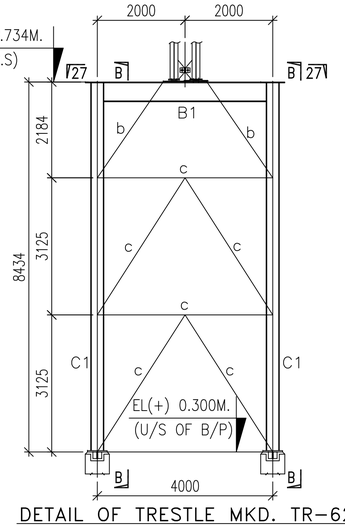
SECTION C-C



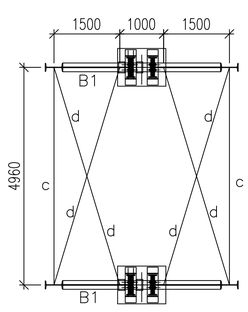
PLAN 44-44



SECTION B-B



DETAIL OF TRESTLE MKD. TR-62



PLAN 27-27

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE: NTS

SHEET 48 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES | BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY | SIZE- A0 [1189 x 841] | PROJECT NO.: 618-450068

SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG

BEUMERGROUP

Name	Date	%ALT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Depr.	Contact: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_037

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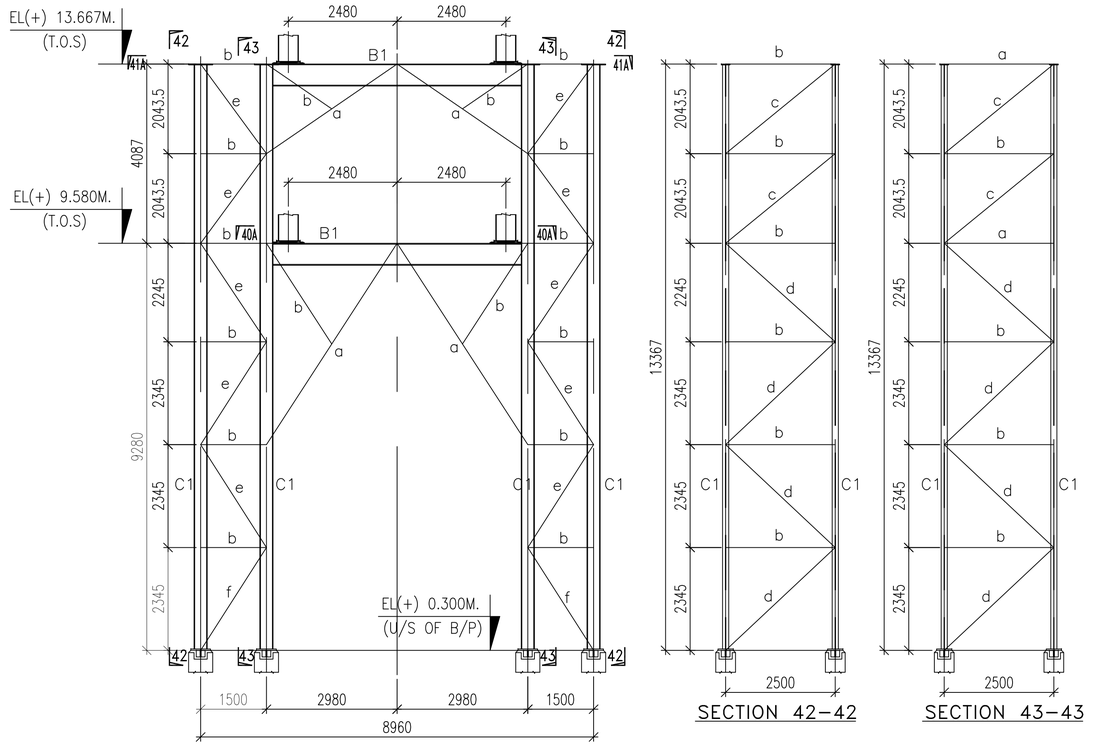
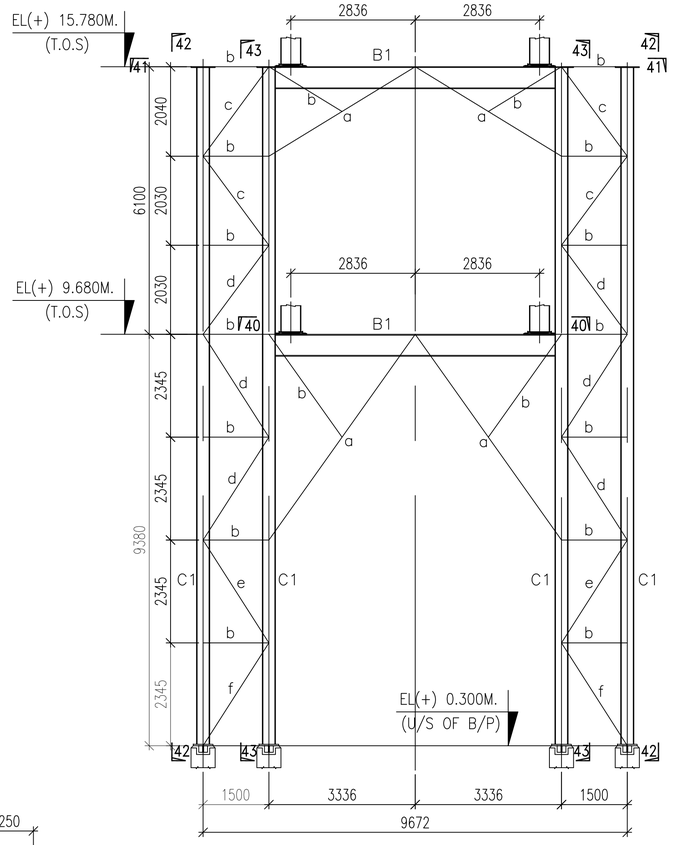
ISO 14405 | ISO 13920-AVE | Ind. | Modification | Ref.: - | Origin: - | Replacement for: - | Replaced by: -



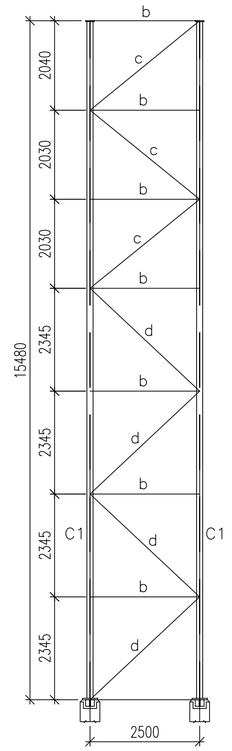
DETAIL OF TRESTLE MKD. TR-52

SECTION 42-42

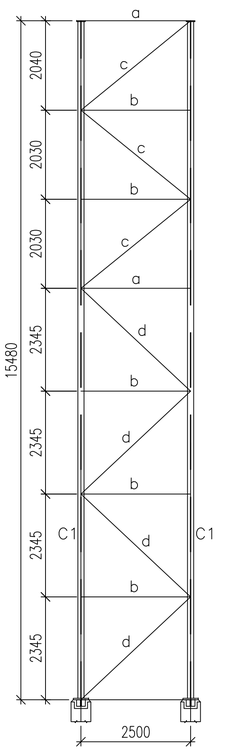
SECTION 43-43



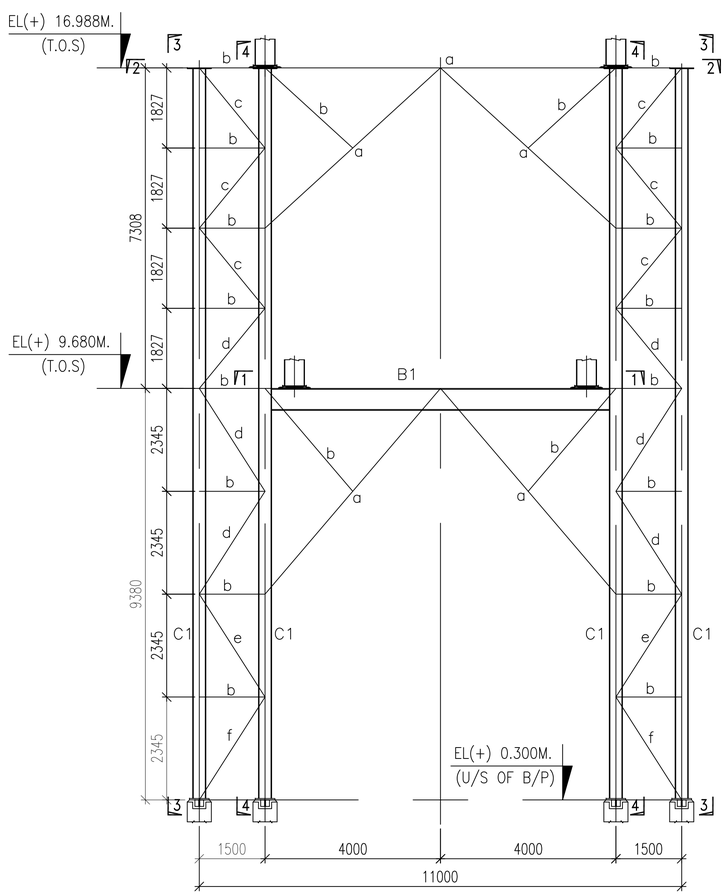
DETAIL OF TRESTLE MKD. TR-53



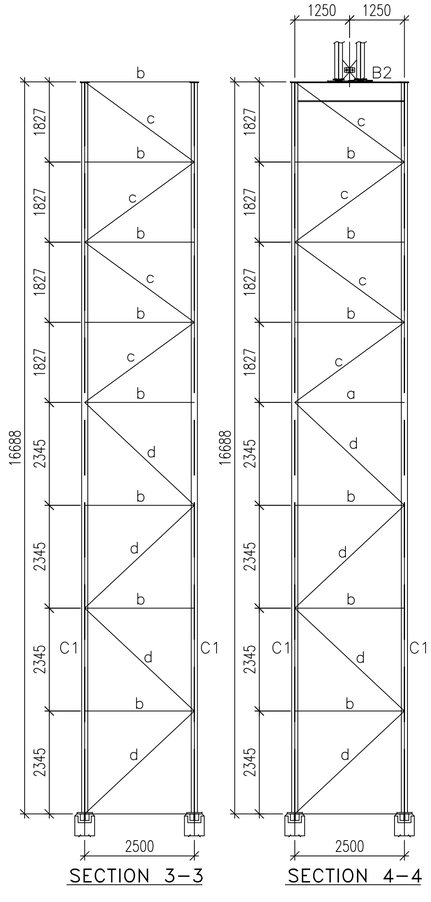
SECTION 42-42



SECTION 43-43

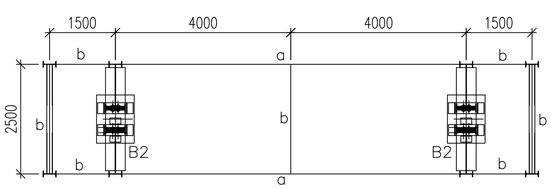


DETAIL OF TRESTLE MKD. TR-54

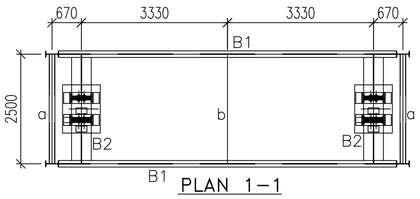


SECTION 3-3

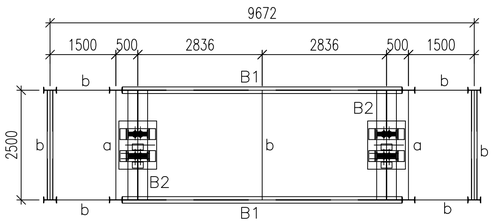
SECTION 4-4



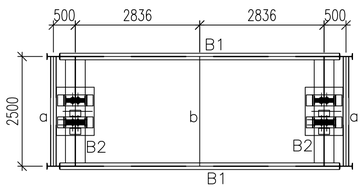
PLAN 2-2



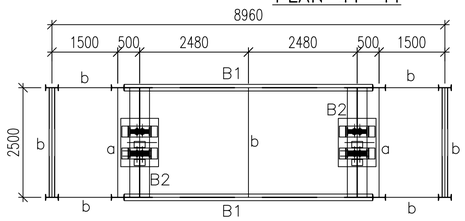
PLAN 1-1



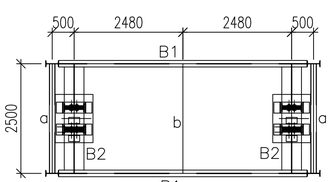
PLAN 41-41



PLAN 40-40



PLAN 41A-41A



PLAN 40A-40A

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%AT%	Order.No.: 618-450068	Finishprotection	STRUCTURAL GA OF GALLERY MKD. CG-67L/23.
Riesi	13/05/2019	Issued	Tech.Pos.: -		LSPC 1A/1B
Mallick	14/05/2019	Gepr.	Contact: %SACHBE%	Drawing No.	S18_45068_LSPC 1AB_LD_037
ISO 14405		Ind.	Modifikation Ref.: -	Scale	nts
ISO 13920-A/E			Origin: -	Replacement for: -	Replaced by: -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

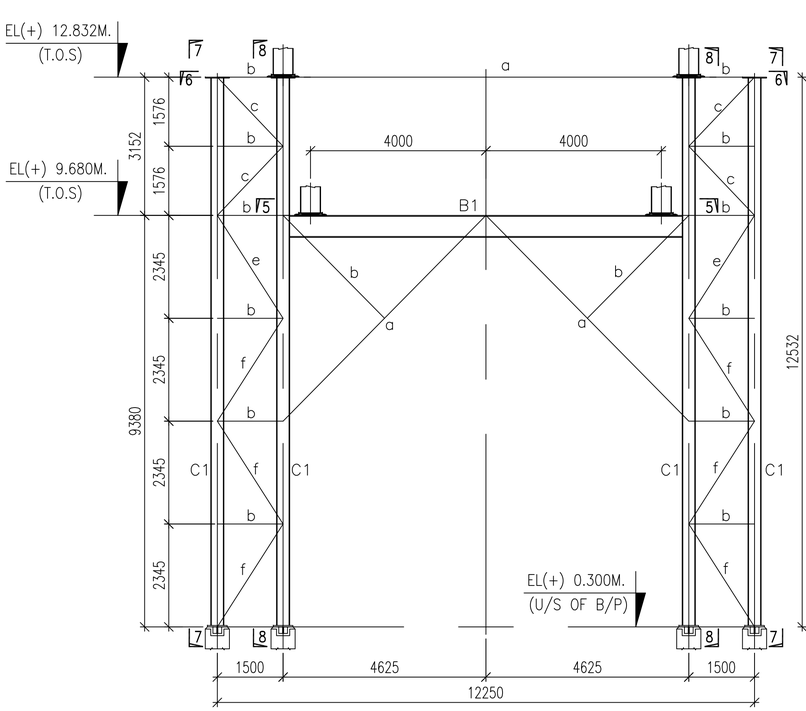
PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS | SHEET 49 OF 54

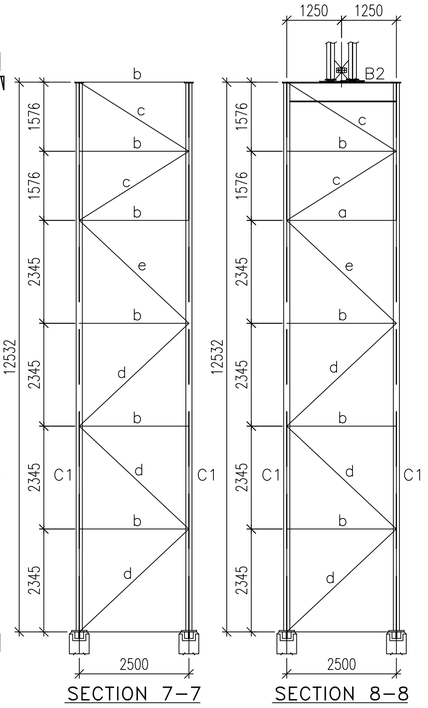
TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 0

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG

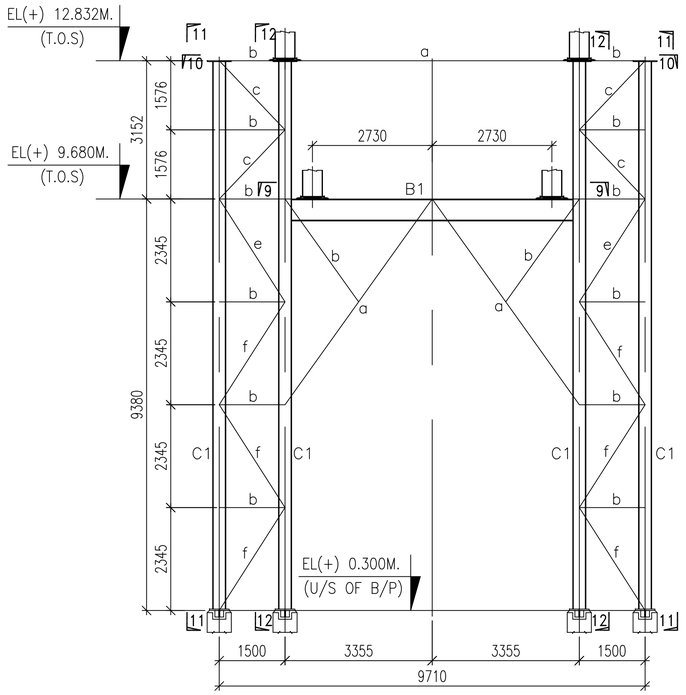


DETAIL OF TRESTLE MKD. TR–55

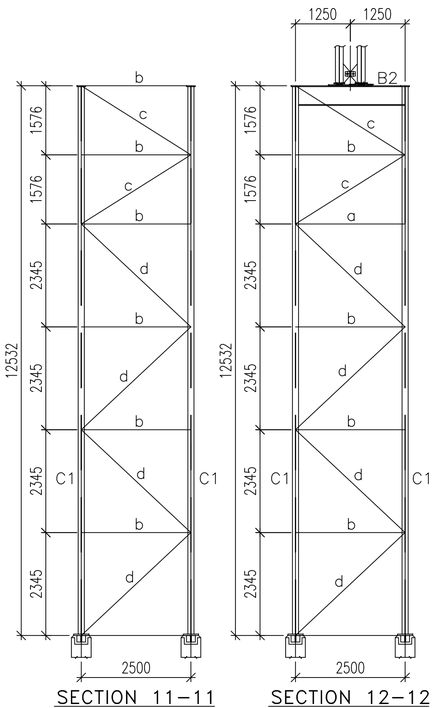


SECTION 7–7

SECTION 8–8

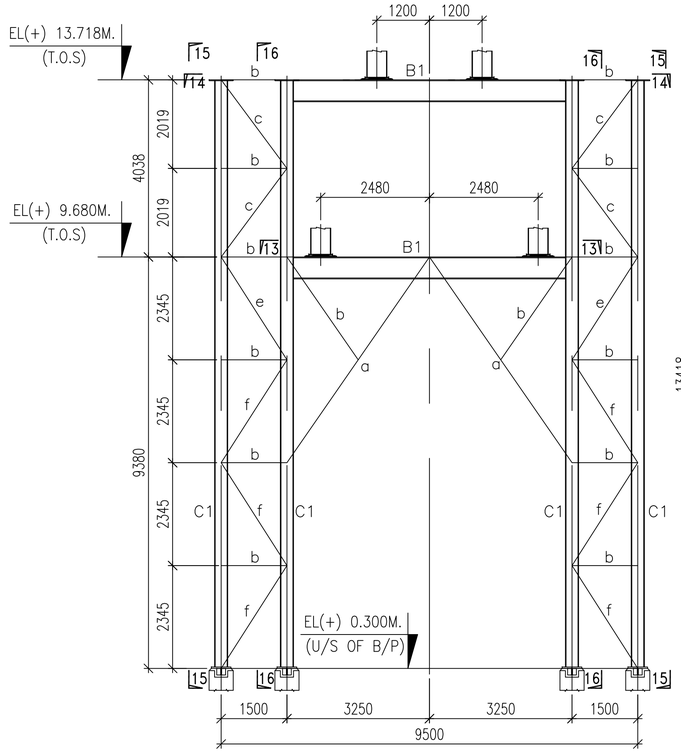


DETAIL OF TRESTLE MKD. TR–56

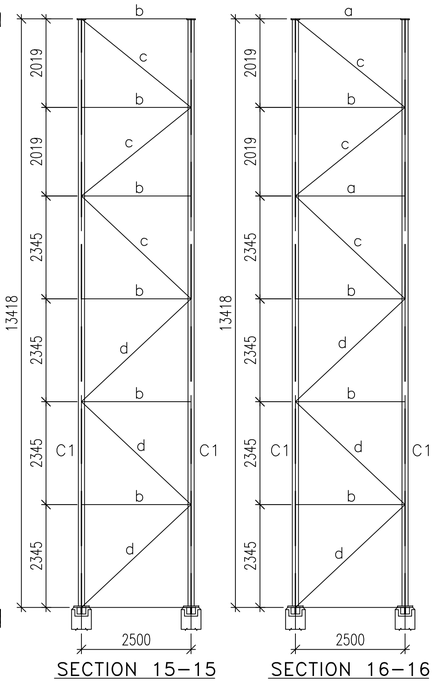


SECTION 11–11

SECTION 12–12

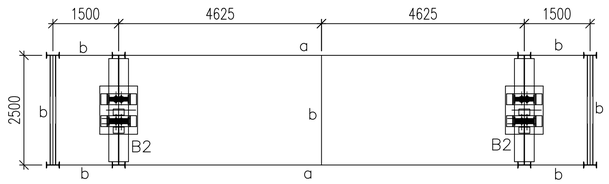


DETAIL OF TRESTLE MKD. TR–57

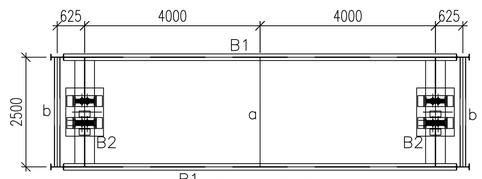


SECTION 15–15

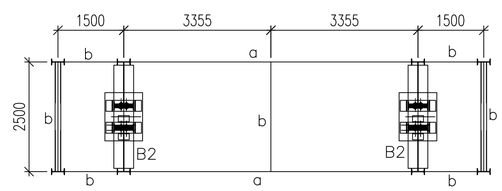
SECTION 16–16



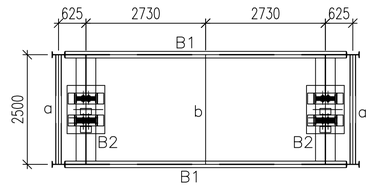
PLAN 6–6



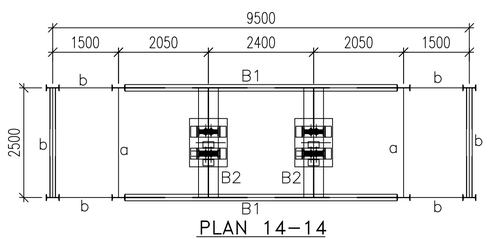
PLAN 5–5



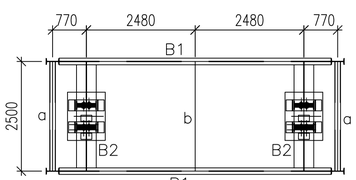
PLAN 10–10



PLAN 9–9



PLAN 14–14



PLAN 13–13

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%AT%	Order.No.: 618-450068	Designation	STRUCTURAL GA OF GALLERY MKD. CG-67L/23, LSPC 1A/1B
Basu	13/08/2019	Issued	Tech.Pos.: -		
Mallick	14/08/2019	Gen.	Contact: %SACHBE%	Drawing No.	S18_45068_LSPC 1AB_LD_037
-		E	-		
-		D	-		
-		C	-		
-		B	-		
-		A	-		
ISO 14405		Ind.	Modification Ref.: -	Scale	nts
ISO 13920-A/E			Origin	Sheet/of	1 / 1
				- Replacement for	Replaced by -

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

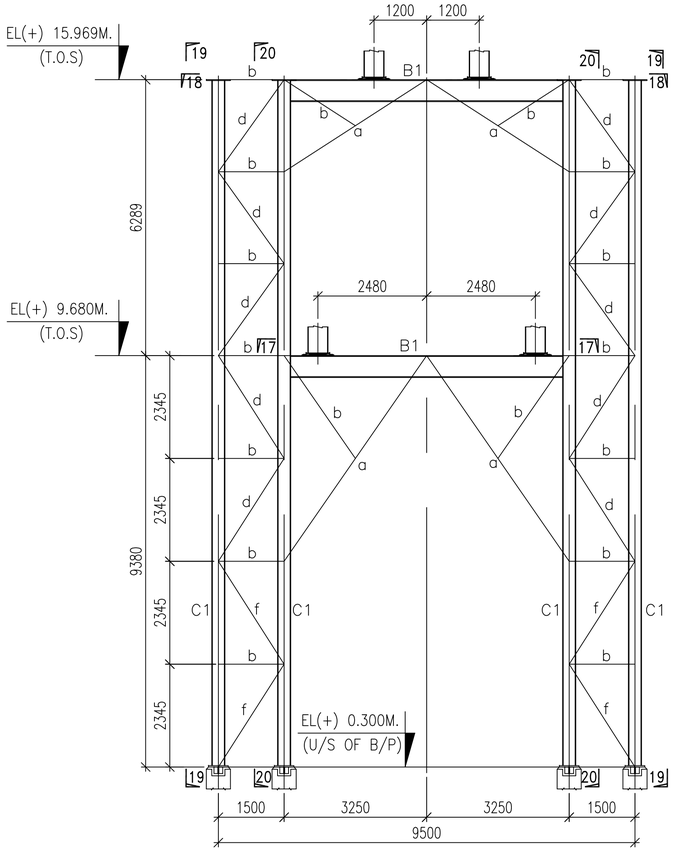
PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinenfabrik,Germany

SCALE NTS

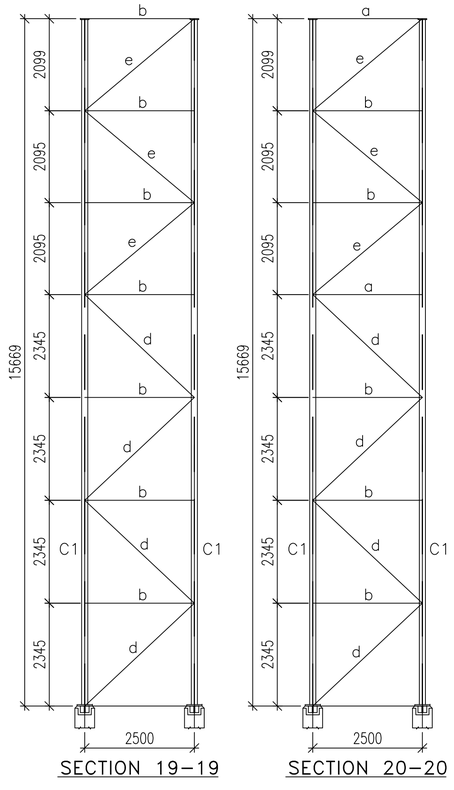
SHEET 50 OF 54

SUPERSEDES	BHEL JOB NO.: – / STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY	SIZE– A0 [1189 x 841] / PROJECT NO.: 618–450068
SYSTEM	ANNEX.: – / DRAWING NO.: ---- / REV.: 0
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

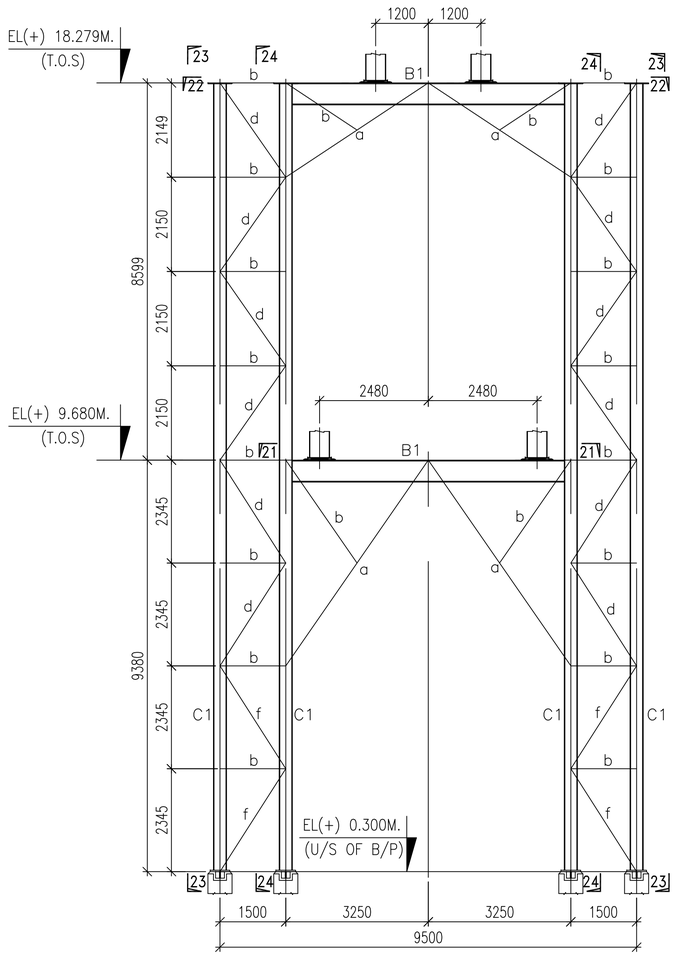


DETAIL OF TRESTLE MKD. TR–58

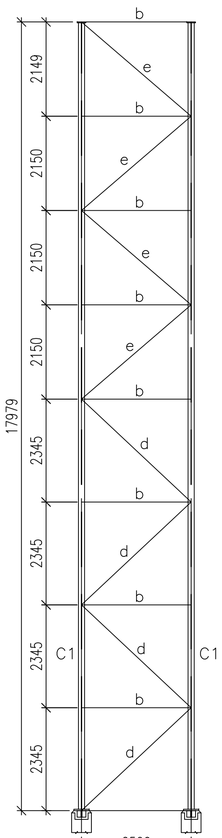


SECTION 19–19

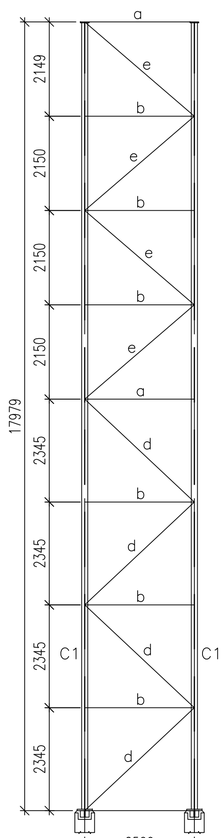
SECTION 20–20



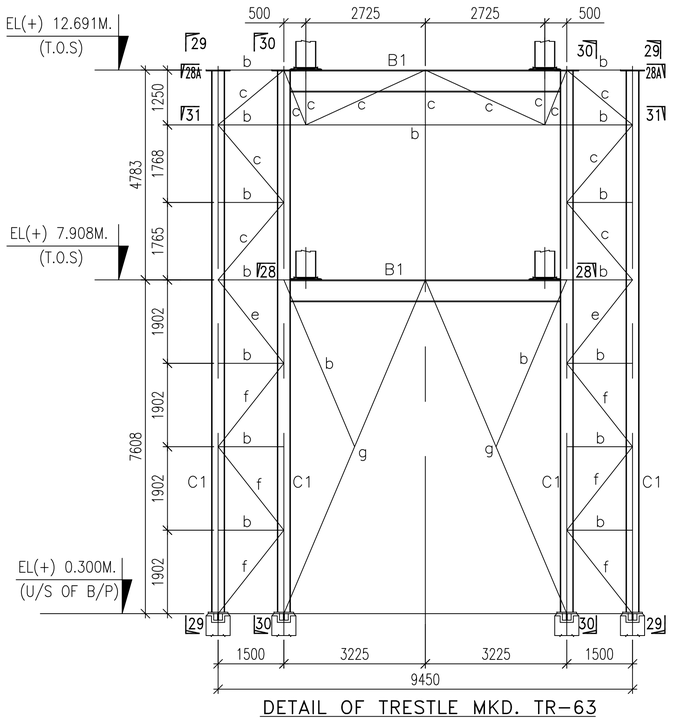
DETAIL OF TRESTLE MKD. TR–59



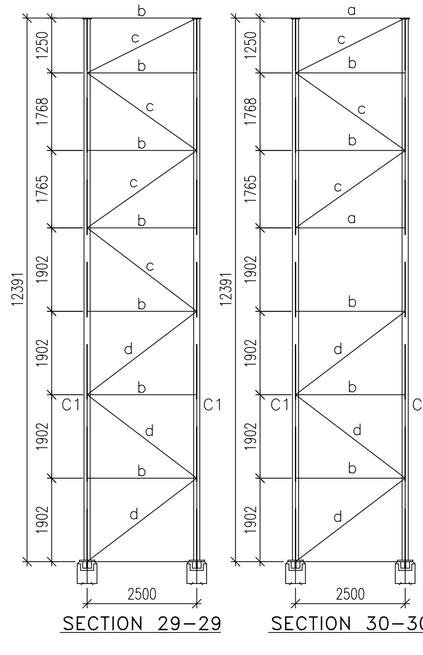
SECTION 23–23



SECTION 24–24

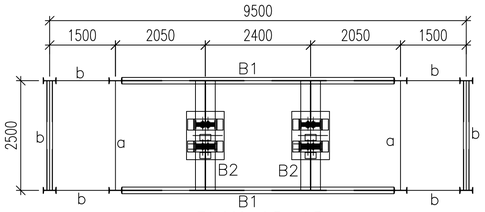


DETAIL OF TRESTLE MKD. TR–63

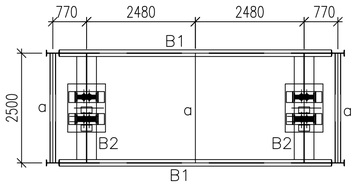


SECTION 29–29

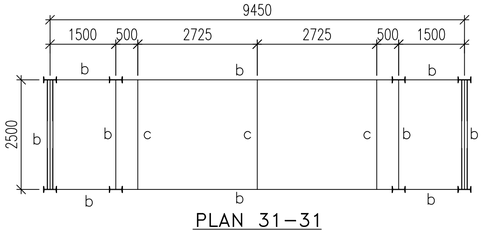
SECTION 30–30



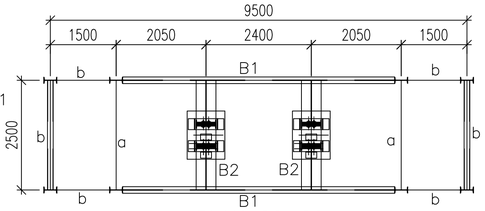
PLAN 18–18



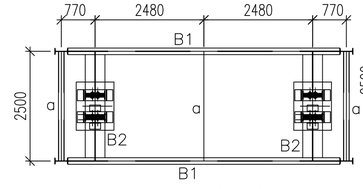
PLAN 17–17



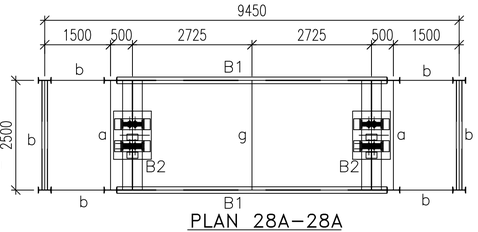
PLAN 31–31



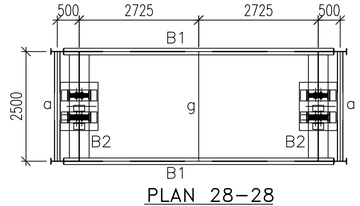
PLAN 22–22



PLAN 21–21



PLAN 28A–28A



PLAN 28–28

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE–00–UTX–LC–100200–PEM–2

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinenfabrik,Germany

SCALE NTS
SHEET 51 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: ----
REV.: 0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618–450068
Basu	13/08/2019	Issued	Tech.Proc.:	-
Mallick	14/08/2019	Gear	Contact:	%SACHBE%

Ind.	Modification	Ref.: -
E	-	
D	-	
C	-	
B	-	
A	-	

ISO 14405 ISO 13920-A/E Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23, LSPC 1A/1B
Drawing No.: S18_45068_LSPC 1AB_LD_037

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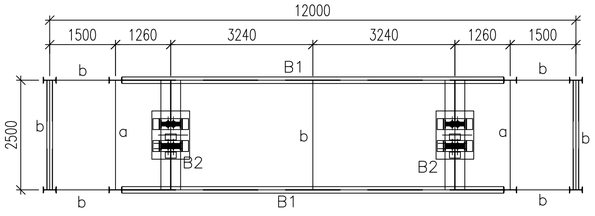
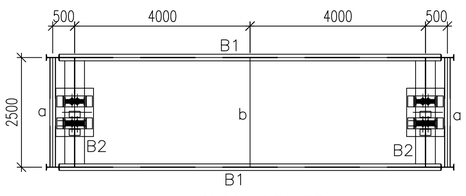
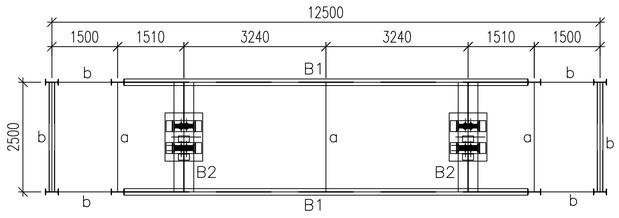
Sheet/of: 1 / 1
Replacement for: -
Replaced by: -



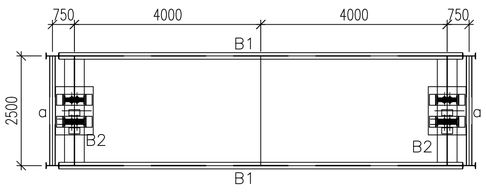
PLAN 33–33



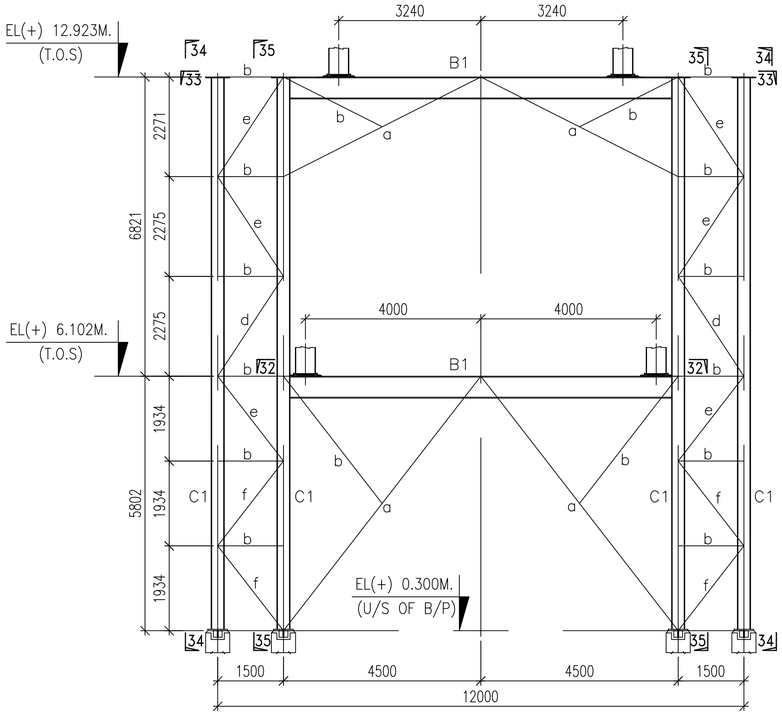
PLAN 32–32



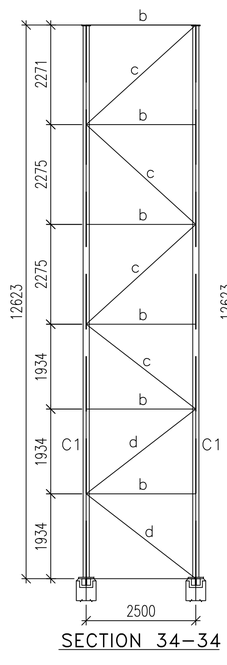
PLAN 37–37



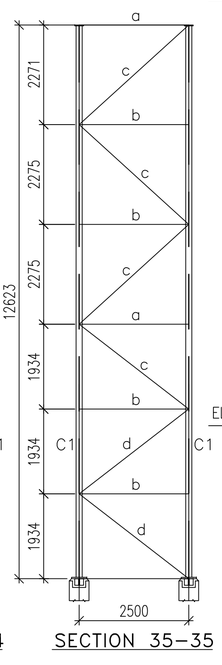
PLAN 36–36



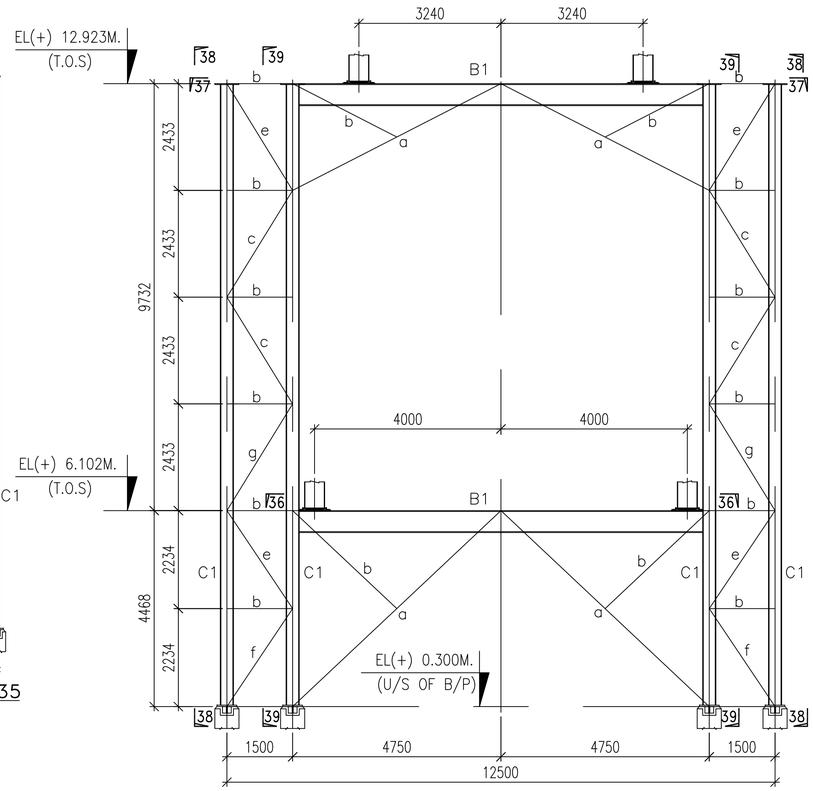
DETAIL OF TRESTLE MKD. TR–64



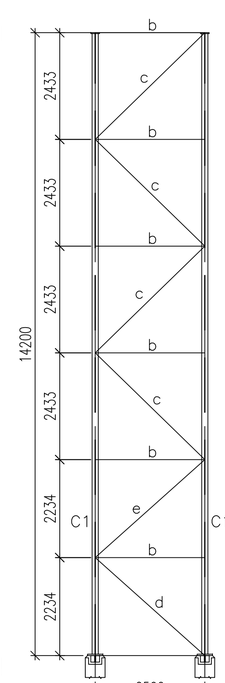
SECTION 34–34



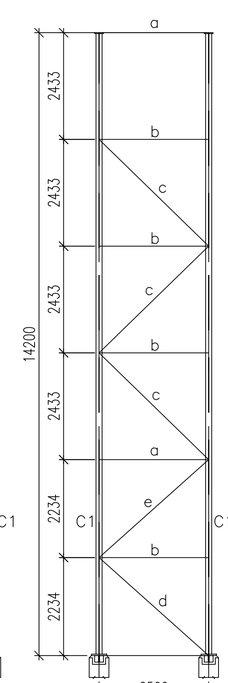
SECTION 35–35



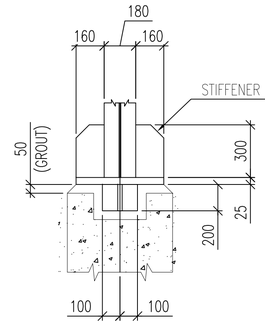
DETAIL OF TRESTLE MKD. TR–65



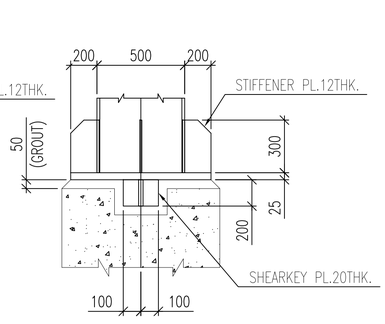
SECTION 38–38



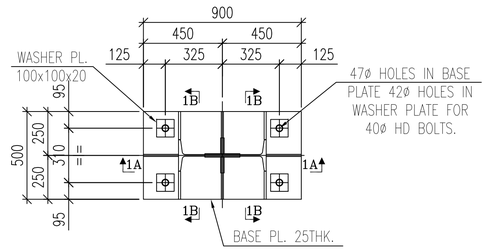
SECTION 39–39



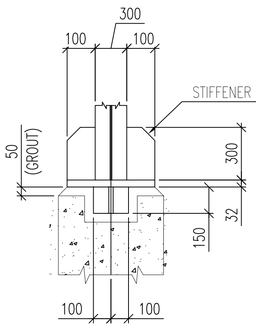
SECTION 1B–1B



SECTION 1A–1A



TYP. DETAIL OF BASE PLATE FOR TRESTLE MKD.TR–1 TO TR–51, TR–61 & TR–62



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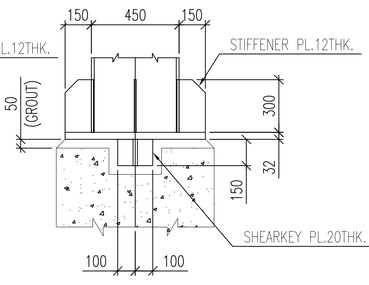
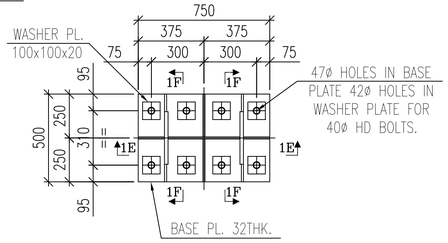
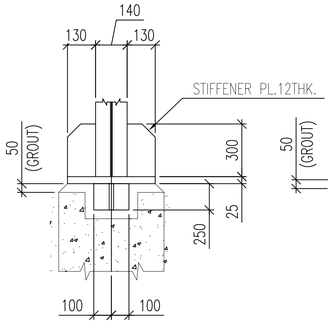


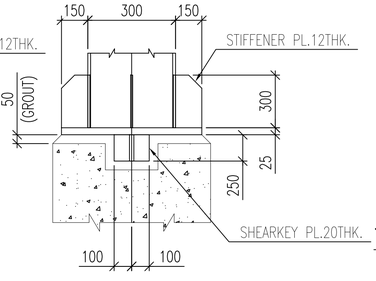
SECTION 1E–1E



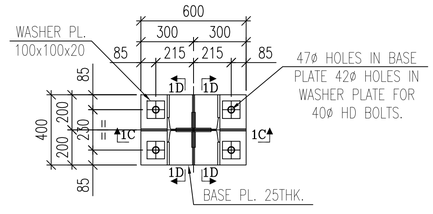
DETAIL OF BASE PLATE FOR TRESTLE MKD.TR–60



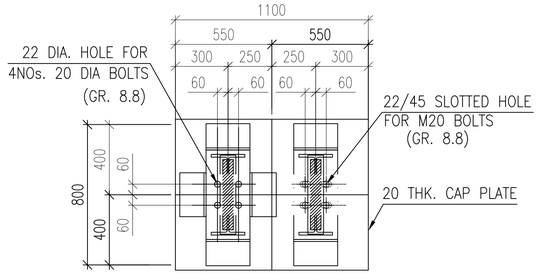
SECTION 1D–1D



SECTION 1C–1C



TYP. DETAIL OF BASE PLATE FOR TRESTLE MKD.TR–52 TO TR–59 & TR–63 TO TR–65



TYP. DETAIL OF CAP PLATE
(FOR ALL 4 LEG. TRESTLE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	19/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ◯ ◀▶ Ind. Modification Ref.: -
ISO 13920-A/E Origin - Replacement for - Replaced by -

Customer
BHARAT HEAVY ELECTRICALS LTD.
Designation
STRUCTURAL GA OF GALLERY MKD. CG-67L/23.
LSPC 1A/1B
Drawing No.
S18_45068_LSPC 1AB_LD_037
Scale
nts
Sheet/of 1 / 1

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REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR
BEUMER INDIA PVT. LTD.
BEUMERGROUP BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 52 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC–1A/B

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177353–ISG

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: ----
REV.: 0

TABLE OF MEMBER FOR TR-01

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 200	
b	□	ISMC 150	
c	⊤	2/ISA 75X75X6	

TABLE OF MEMBER FOR TR-04

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-05

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-07

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 150	
c	□	ISMC 100	
d	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-50

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 150	
c	□	ISMC 100	
d	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR TYPE-2

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-02

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-03

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-06

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 450	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 100	
b	□	ISMC 150	
c	□	ISMC 75	

TABLE OF MEMBER FOR TR-08

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-51

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 150	
c	□	ISMC 100	
d	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-61

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 125	

TABLE OF MEMBER FOR TR-52

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 150	
b	□	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 90x90x8	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-53

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 90x90x8	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-54

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 90x90x8	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-55

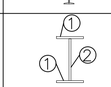
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 350X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-56

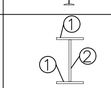
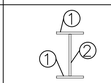
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 125	
b	□	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR TYPE-3

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	□	ISMC 100	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: **FICHTNER** M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinenfabrik,Germany

SCALE NTS | SHEET 53 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES | BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY | SIZE- A0 [1189 x 841] | PROJECT NO.: 618-450068

SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	13/08/2019	Issued	Tech.Pos.: -
Mallick	14/08/2019	Gen.	Contact: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_037

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Scale: nts | Sheet/of 1 / 1

ISO 14405 | ISO 13920-A/E | Ind. | Modification | Ref.: - | Origin

Replacement for: - | Replaced by: -

TABLE OF MEMBER FOR TR-58

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-59

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-60

MARK.	PROFILE	SECTION	REMARKS
C1		① PL. 300X20 THK. ② PL. 410X12 THK.	
B1	I	ISMB 400	
B2		① PL. 200X20 THK. ② PL. 360X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	▢	ISMC 150	
d	▢	ISMC 100	
e	⊤	2/ISA 75x75x6	

TABLE OF MEMBER FOR TR-62

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
B1		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 150	
c	▢	ISMC 100	
d	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-63

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	
g	▢	ISMC 150	

TABLE OF MEMBER FOR TR-64

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

TABLE OF MEMBER FOR TR-65

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	
g	⊤	2/ISA 90x90x8	

TABLE OF MEMBER FOR TR-57

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 300	
B1	I	ISMB 500	
B2		① PL. 450X20 THK. ② PL. 410X12 THK.	
a	▢	ISMC 125	
b	▢	ISMC 75	
c	⊤	2/ISA 65x65x6	
d	⊤	2/ISA 80x80x8	
e	⊤	2/ISA 75x75x6	
f	⊤	2/ISA 100x100x10	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE: NTS

SHEET 54 OF 54

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

SUPERSEDES | BHEL JOB NO.: – | STATUS OF DRG.: FOR APPROVAL

SUPERSEDED BY | SIZE- A0 [1189 x 841] | PROJECT NO.: 618-450068

SYSTEM | ANNEX.: – | DRAWING NO.: ---- | REV.: 0

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	13/08/2019	Issued	Tech.Pos.:	-
Mallick	14/08/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 E ISO 13920-AVE

Ind.	Modification	Ref.: -
E		
D		
C		
B		
A		

Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_037

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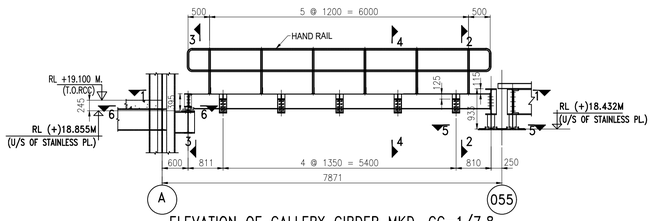
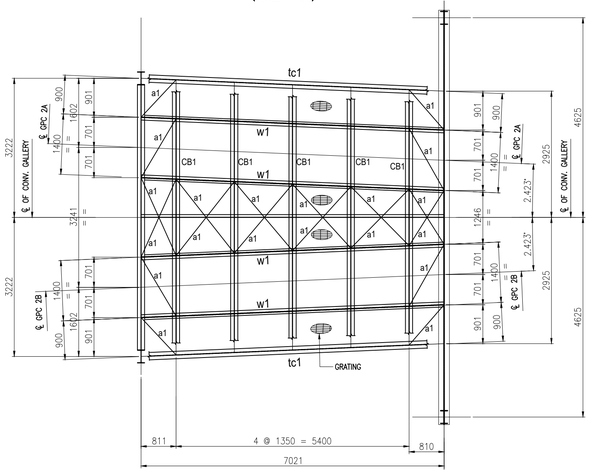
Scale: n/a

Sheet/of 1 / 1

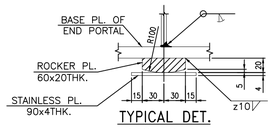
Replacement for: - Replaced by: -



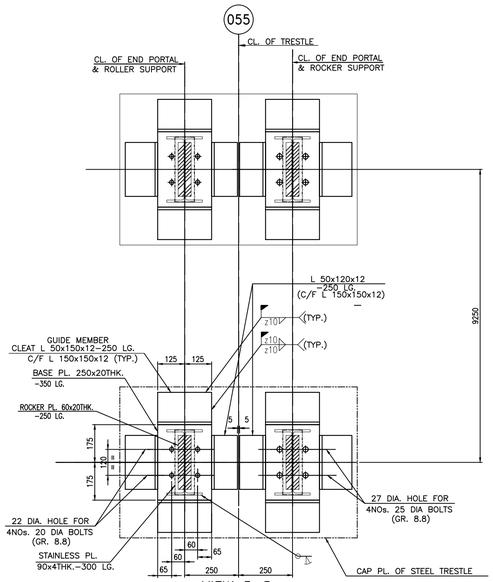
ELEVATION OF GALLERY GIRDER MKD. CG-1/7.8
(SCALE -1:50)



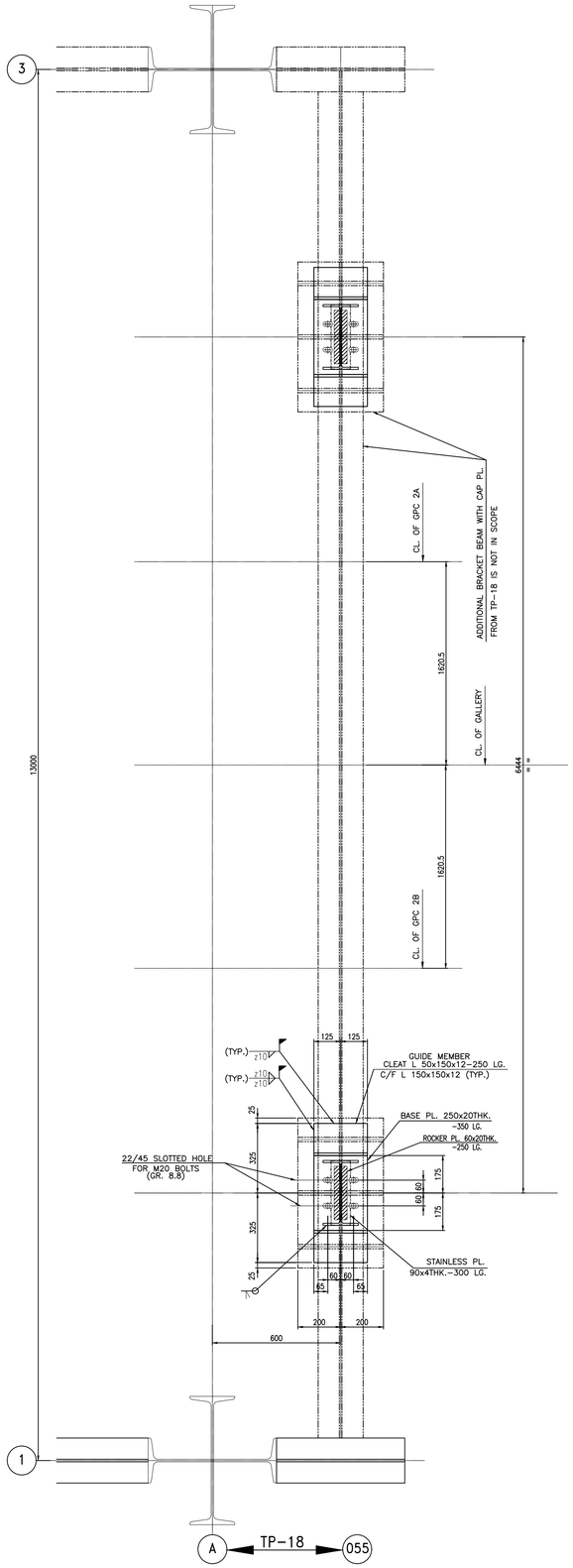
VIEW 2-2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW TOP CHORD LEVEL
(SCALE -1:50)



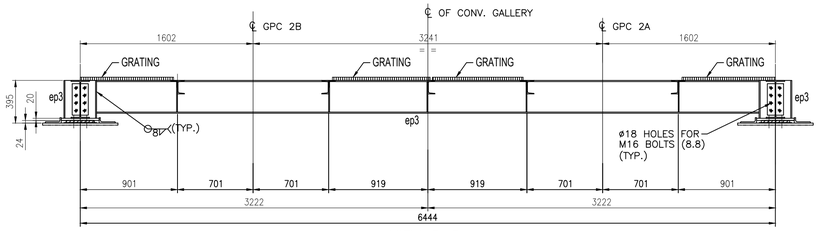
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



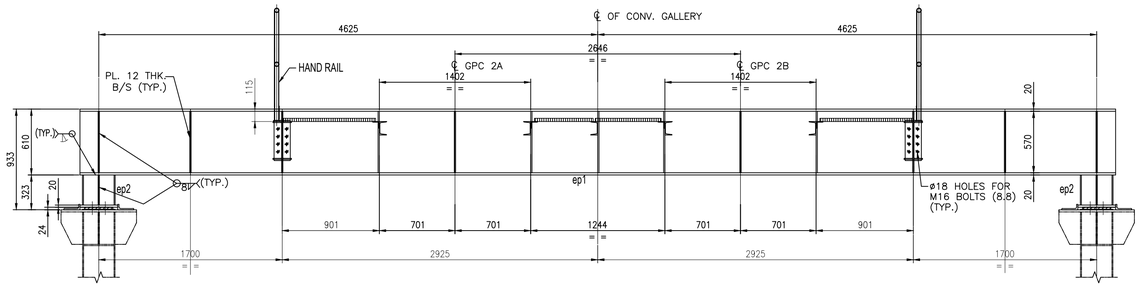
VIEW 5-5
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



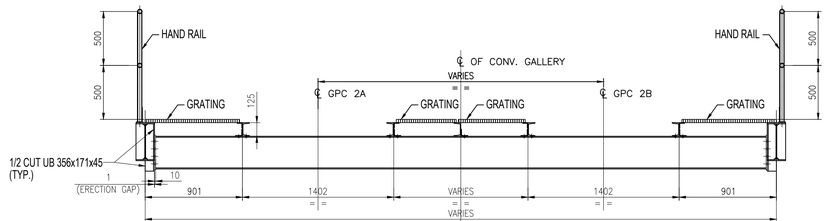
VIEW 6-6
(SCALE -1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



VIEW 3-3
(SCALE -1:20)



VIEW 2-2
(SCALE -1:20)



VIEW 4-4
(SCALE -1:20)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. FOR LOCATION OF CONV. GALLERY REFER LAYOUT DWG. NO. S18-45068-GPC 2AB-LD

SCHEDULE OF MEMBERS FOR LSPC CG-1/7.8 GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 356x171x45	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 65x65x6	30
	CROSS BEAM	CB1	UB 305x165x40	20
2	END PORTAL	ep1	2 FLG. PL. 250x20 1 WEB. PL. 570x16	120
		ep2	UB 305x165x40	45
		ep3	UB 305x165x40	20
3	WALK WAY STRINGER	w1	ISMC 125 + L 65x65x6	15
		w2	ISMC 125	15
4	WALK WAY		FLOORING WITH GRATING	
5	HAND RAIL TOP RAIL		40 NB (M) PIPE	
6	HAND RAIL MID RAIL		40 NB (M) PIPE	
7	HAND RAIL POST		40 NB (M) PIPE	
8	HAND RAIL TOE GUARD		SKELP 121X3.25 THK.	
9	GST. PLATE 8 THK.			

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2	16.0519	BCE	–	–	REVISED AS COMMENTS DATED 15.05.19
1	23.0319	BCE	–	–	REVISED AS COMMENTS

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR
BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHT 55

TITLE:ARRGT. OF GALLERY MKD. GPC 2A/2B

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 1
CUSTOMER DRAWING NO.:	Maitree-00-UED-LC-177586-ISG		

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	26/09/2019	Issued	Tech. Pos.:	-
Mallick	26/09/2019	Dept	Contact:	%SACHBE%

ISO 14405 ISO 13920-A/E | Ind | Modification | Ref.: - | Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-1/7.8 GPC 2A/B
Drawing No.: S18_45068_GPC 2AB_LD_001

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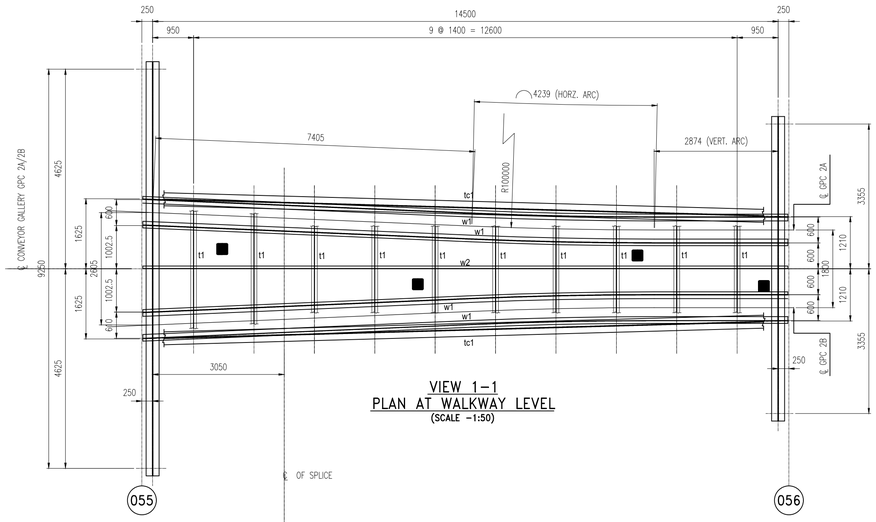
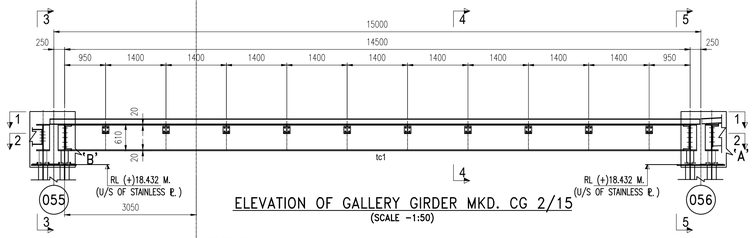
Scale: mtls
Sheet/of 1 / 1
- Replacement for - Replaced by -

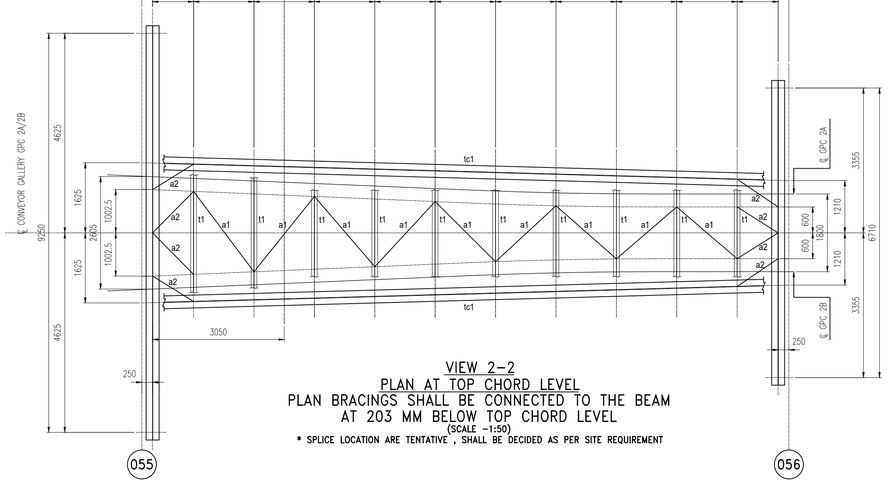
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM
A0 [1189 x 841]



VIEW 1–1
PLAN AT WALKWAY LEVEL
(SCALE –1:50)

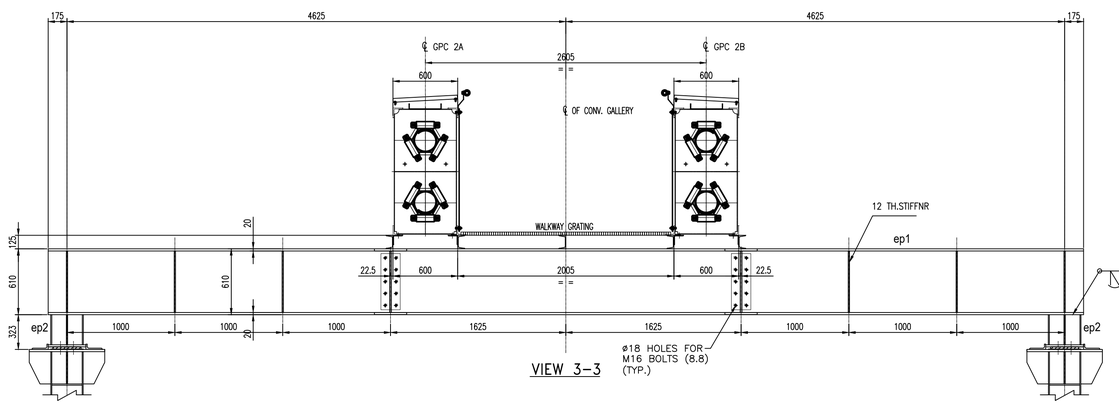


ELEVATION OF GALLERY GIRDER MKD. CG 2/15
(SCALE –1:50)

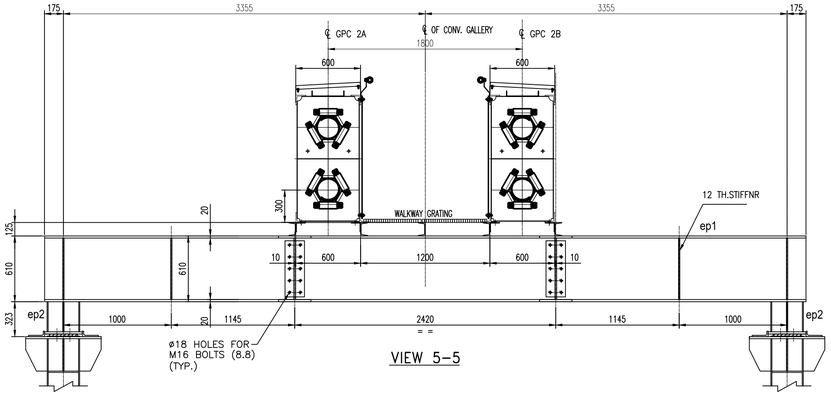


VIEW 2–2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 203 MM BELOW TOP CHORD LEVEL
(SCALE –1:50)

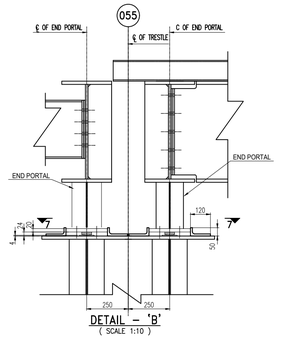
* SPLICE LOCATION ARE TENTATIVE , SHALL BE DECIDED AS PER SITE REQUIREMENT



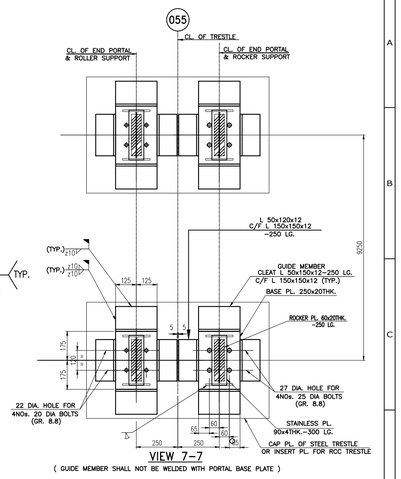
VIEW 3–3



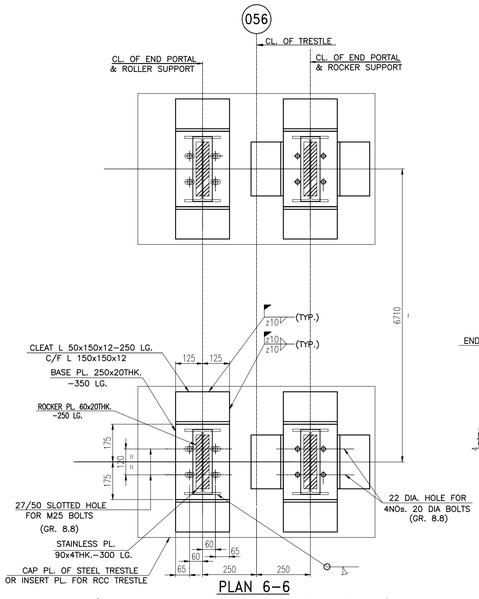
VIEW 5–5



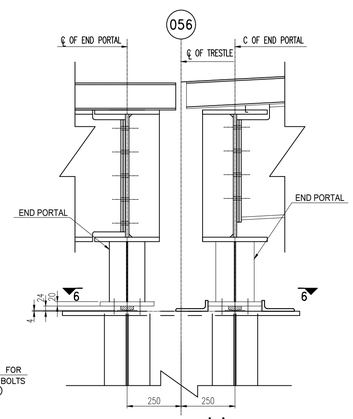
DETAIL – 'B'
(SCALE 1:10)



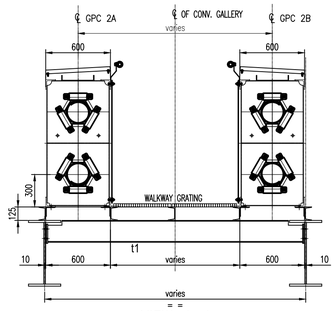
VIEW 7–7
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



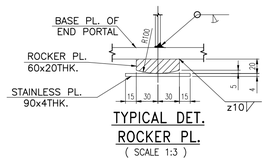
PLAN 6–6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 'A'
(SCALE 1:10)



VIEW 4–4



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR LSPC 15 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	2 FLG.R. 250x20 1 WEB R.570x16	120
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x6	100
		a2	L 65x65x6	80
		t1	UB 203x133x25	40
5	END PORTAL	ep1	2 FLG.R. 250x20 1 WEB R.570x16	140
		ep2	UB 305x165x40	45
6	WALK WAY STRINGER	w1	ISMC 125+ L 90x90x6	10
		w2	ISMC 125	10
7	WALKWAY	FLOORING WITH GRATING.		

NOTE:–
1. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. S18–45068–GPC 2A.2B–LD
2. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
3. ALL STRUCTURES ARE OF WELDED CONNECTION.
4. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	26/09/2019	Issued	Tech.Pos.:	-
Malick	26/09/2019	Gep.	Contact:	%SACHBE%

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-2/15 GPC 2A/2B

Drawing No.: S18_45068_GPC 2A/2B_LD_002

Scale: nts

Sheet/of: 1 / 1

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS

SHT 56

TITLE:

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177586–ISG

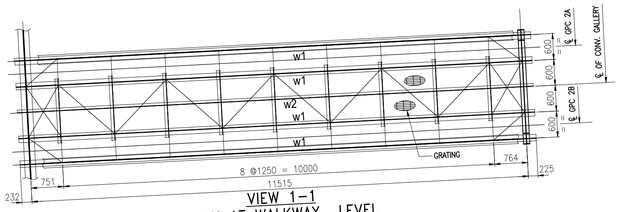
STATUS OF DRG.: FOR APPROVAL

PROJECT NO.: 618–450068

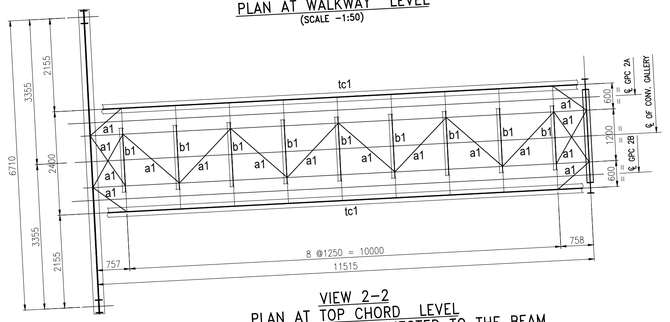
REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

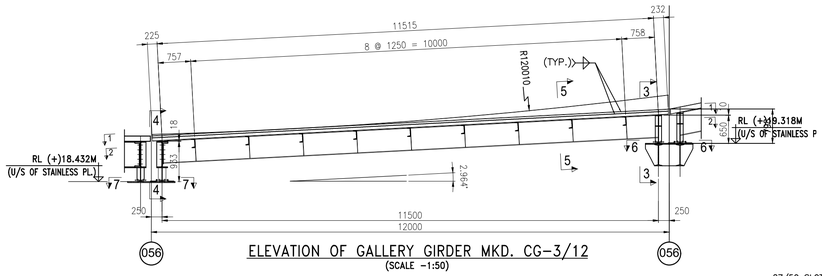
A0 [1189 x 841]



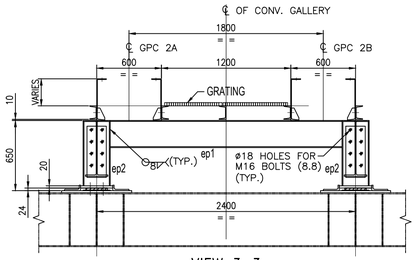
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



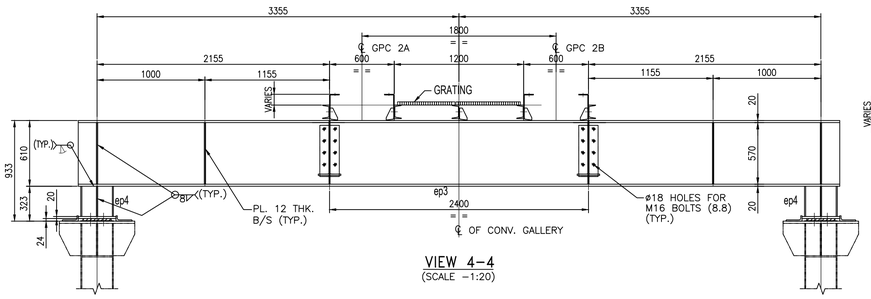
VIEW 2-2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM
AT 200 MM BELOW TOP CHORD LEVEL
(SCALE -1:50)



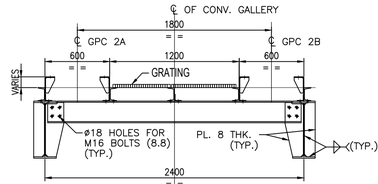
ELEVATION OF GALLERY GIRDER MKD. CG-3/12
(SCALE -1:50)



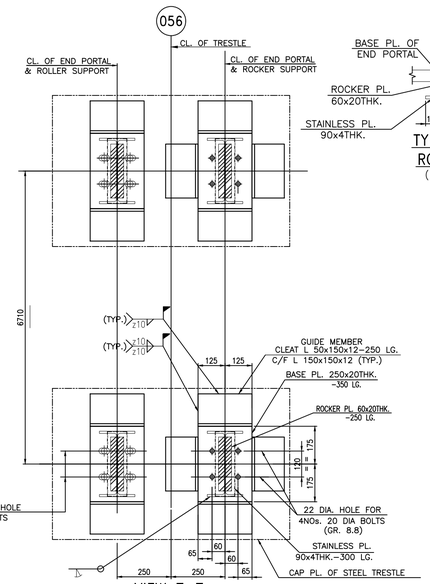
VIEW 3-3
(SCALE -1:20)



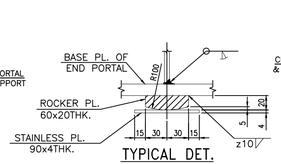
VIEW 4-4
(SCALE -1:20)



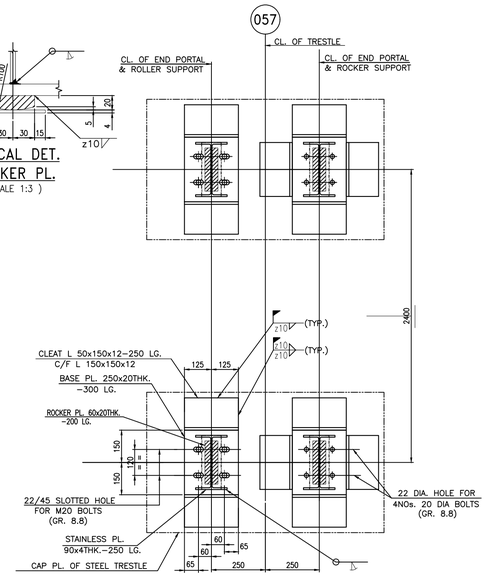
VIEW 5-5
(SCALE -1:20)



VIEW 7-7
(SCALE -1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 6-6
(SCALE -1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR GPC CG-3/12 M. GALLERY

SL. NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x82	100
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 200	15
		a1	L 75x75x8	120
2	END PORTAL	ep1	UB 254x146x31	100
		ep2	UB 254x146x31	80
		ep3	2 FLG. PL. 250x20 1 WEB. PL. 570x16	120
		ep4	UB 305x165x40	45
3	WALKWAY STRINGERS	w1	ISMC 125 + 1-90x6 THK. HORZ. PL. 1-6 THK. VERT. PL. (90, 1, 6, VARIES)	70
		w1	ISMC 125	70
4	GST. PL.		8 mm. THK.	
5	WALKWAY		FLOORING WITH GRATING	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. FOR LOCATION OF CONV. GALLERY REFER LAYOUT DWG. NO. S18-45068-GPC 2AB-LD

BEUMERGROUP

Name	Date	%A T%	Order No.: 618-450068
Basu	06/09/2019	Issued	Tech.Pos.: -
Mallick	06/09/2019	Dept	Contact: %SACHBE%

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-3/12 GPC 2A/2B

Drawing No.: S18_45068_GPC 2A/2B_LD_003

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Scale: n/a

Sheet/of: 1 / 1

Ind	Modification	Ref.: -
		Origin: -

Replacement for: - Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS

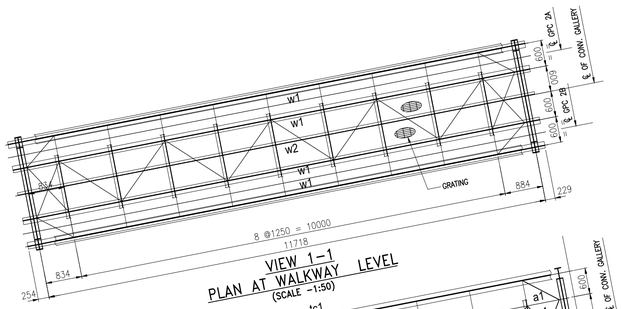
SHT 57

TITLE:

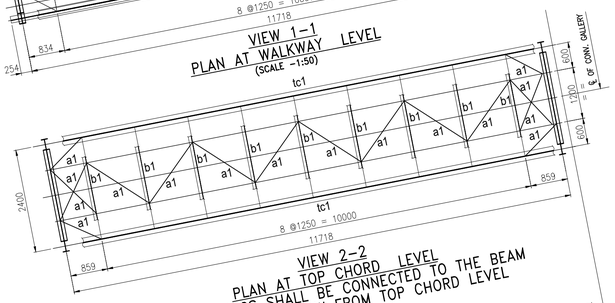
SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068
SYSTEM		ANNEX.: – DRAWING NO.: ----	REV.: 1
CUSTOMER DRAWING NO.:		Maitree-00-UED-LC-177586-ISG	

A0 [1189 x 841]

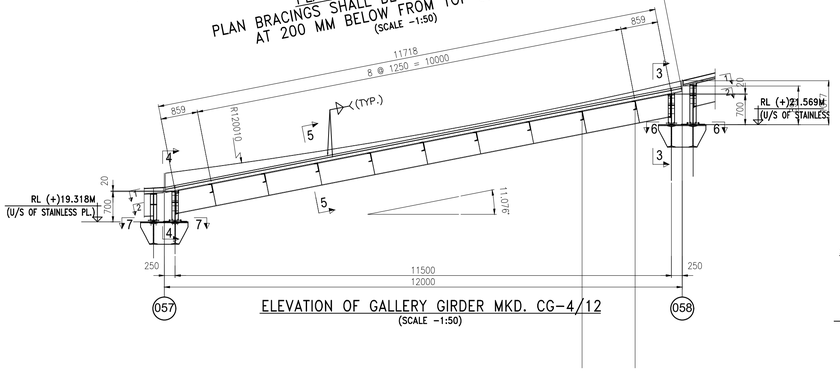
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



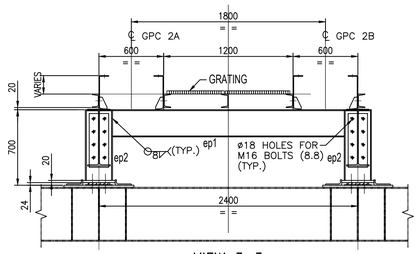
VIEW 1–1
PLAN AT WALKWAY LEVEL
(SCALE –1:50)



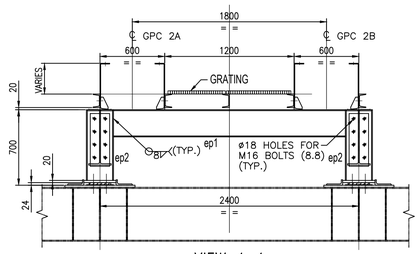
VIEW 2–2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW FROM TOP CHORD LEVEL
(SCALE –1:50)



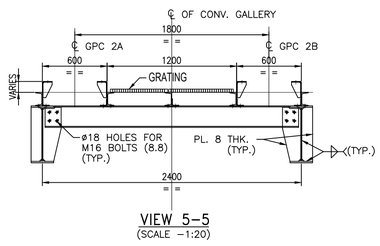
ELEVATION OF GALLERY GIRDER MKD. CG-4/12
(SCALE –1:50)



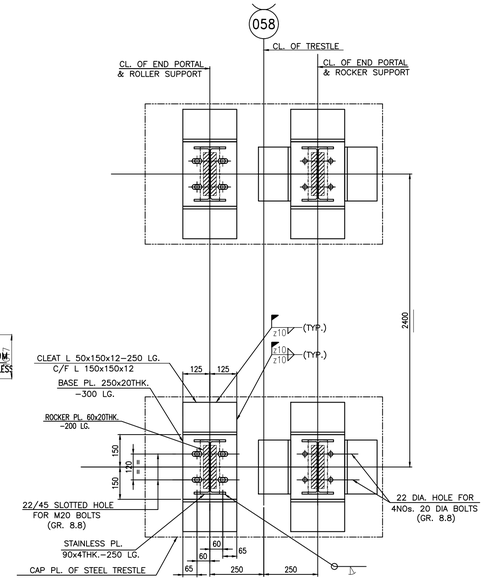
VIEW 3–3
(SCALE –1:20)



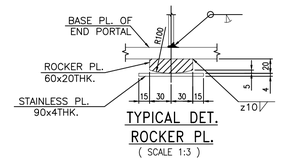
VIEW 4–4
(SCALE –1:20)



VIEW 5–5
(SCALE –1:20)



VIEW 6–6
(SCALE –1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR GPC CG–4/12 M. GALLERY				
SL. NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x82 I	100
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 200 ⌋	15
		a1	L 75x75x8 ⌝	120
2	END PORTAL	ep1	UB 254x146x31 I	100
		ep2	UB 254x146x31 I	80
3	WALKWAY STRINGERS	w1	ISMC 125 + 1–90x6 THK. HORZ. PL. 1–6 THK. VERT. PL. (90 varies)	70
		w2	ISMC 125 ⌋	70
4	GST. PL.		8 mm. THK.	
5	WALKWAY		FLOORING WITH GRATING	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. FOR LOCATION OF CONV. GALLERY REFER LAYOUT DWG. NO. S18–45068–GPC 2AB–LD

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	05/09/2019	Issued	Tech.Pos.: -
Malick	06/09/2019	Dept	Contact: %SACHBE%

ISO 14405 ⊕ E⇔ | Ind | Modification | Ref.: -
ISO 13920-AE | Origin: - | Replacement for: - | Replaced by: -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-4/12 GPC 2A/2B
Drawing No.: S18_45068_GPC 2A/2B_LD_004
Scale: nts
Sheet/of 1 / 1

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

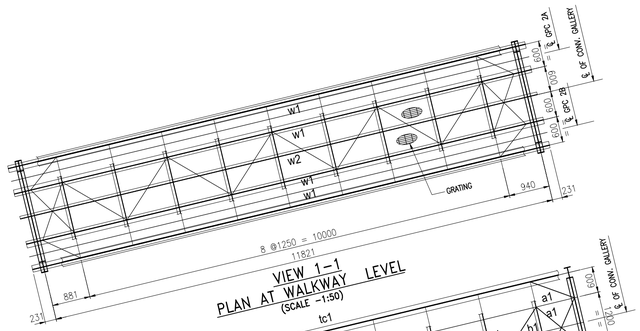
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHT 58
TITLE:

SUPERSEDES	BHEL JOB NO.: –
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.: ----
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177586–ISG

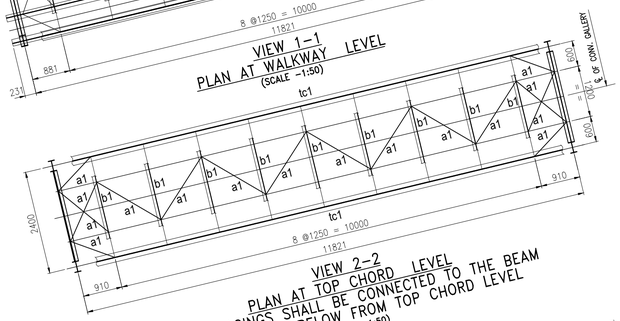
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

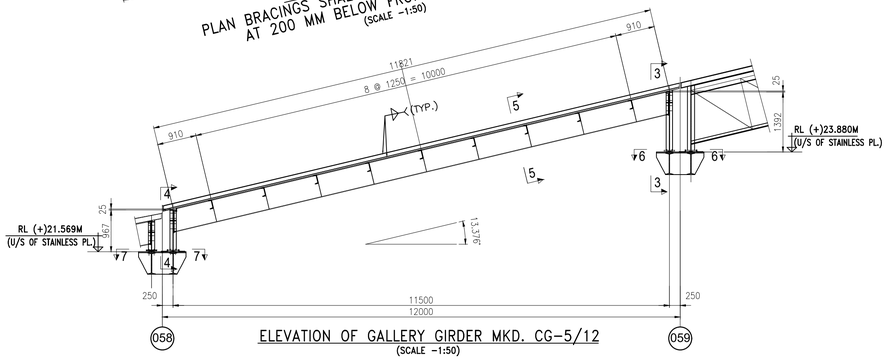
A0 [1189 x 841]



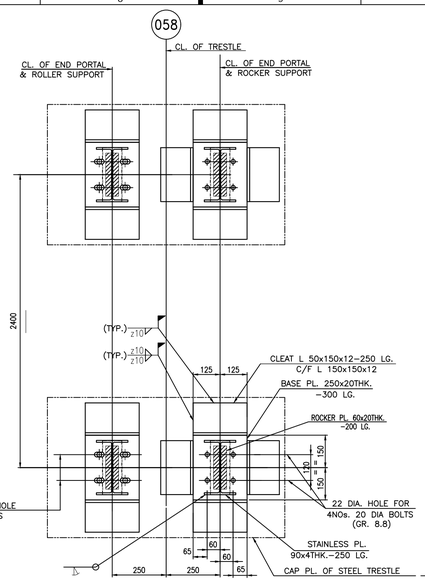
VIEW 1–1
PLAN AT WALKWAY LEVEL
(SCALE –1:50)



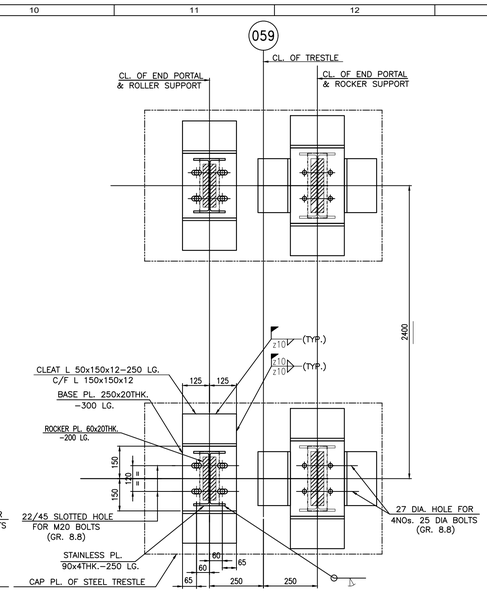
VIEW 2–2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW FROM TOP CHORD LEVEL
(SCALE –1:50)



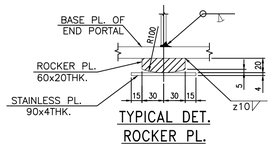
ELEVATION OF GALLERY GIRDER MKD. CG–5/12
(SCALE –1:50)



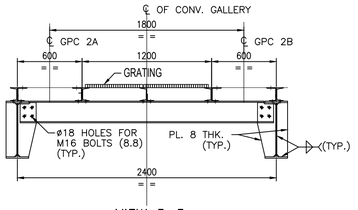
VIEW 7–7
(SCALE –1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



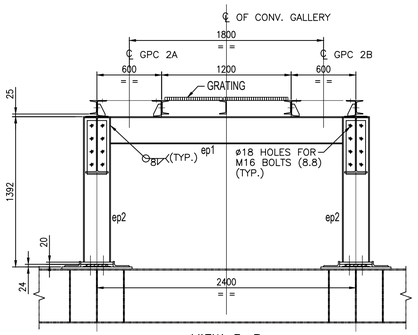
VIEW 6–6
(SCALE –1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



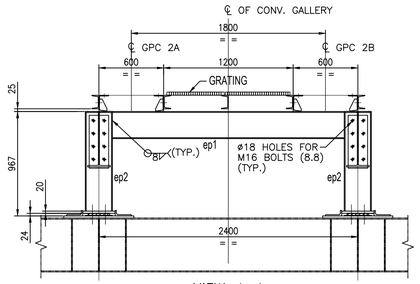
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 5–5
(SCALE –1:20)



VIEW 3–3
(SCALE –1:20)



VIEW 4–4
(SCALE –1:20)

SCHEDULE OF MEMBERS FOR GPC CG–5/12 M. GALLERY

SL. NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x82	100
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 200	15
		a1	L 75x75x8	120
2	END PORTAL	ep1	UB 254x146x31	100
		ep2	UB 254x146x31	80
3	WALKWAY STRINGERS	w1	ISMC 125 + L 90x90x6	70
		w2	ISMC 125	70
4	GST. PL.		8 mm. THK.	
5	WALKWAY		FLOORING WITH GRATING	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. FOR LOCATION OF CONV. GALLERY REFER LAYOUT DWG. NO. S18–45068–GPC 2AB–LD

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	05/09/2019	Issued	Tech.Pos.:	-
Mallick	06/09/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 E ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-5/12 GPC 2A/2B
Drawing No.: S18_45068_GPC 2A/2B_LD_005
Scale: nts
Sheet/of 1 / 1
Origin: - Replacement for: - Replaced by: -

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany

SCALE: NTS

SHT 59

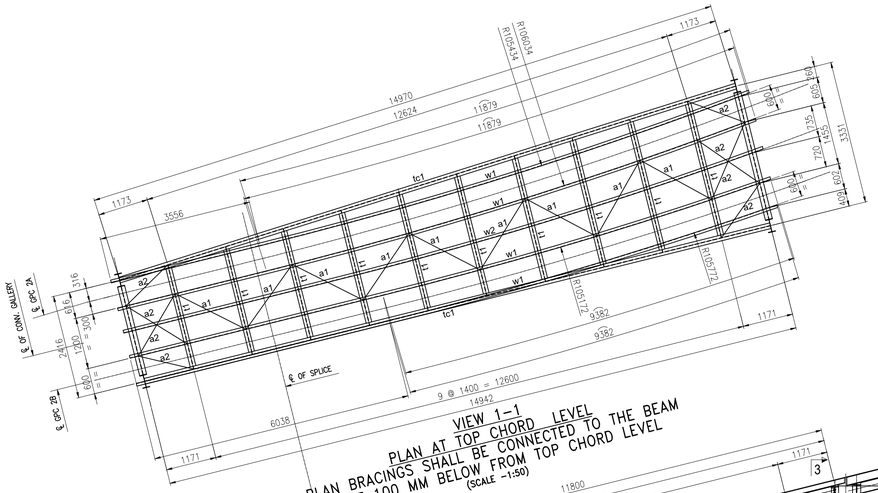
TITLE:

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 1

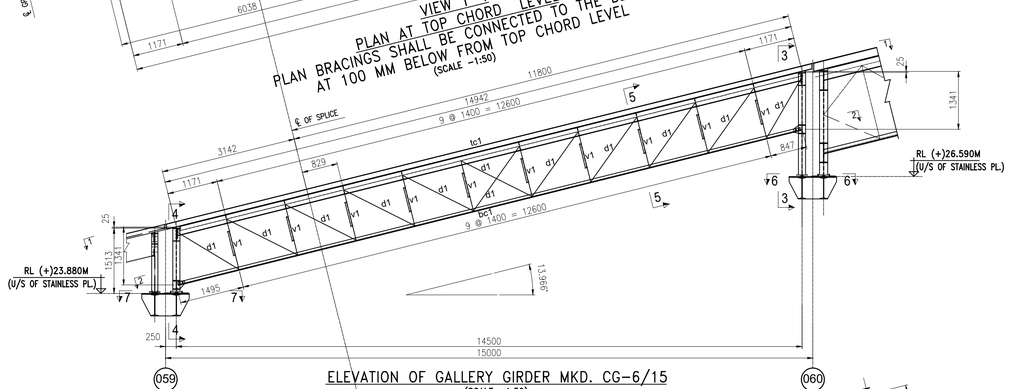
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177586–ISG

A0 [1189 x 841]

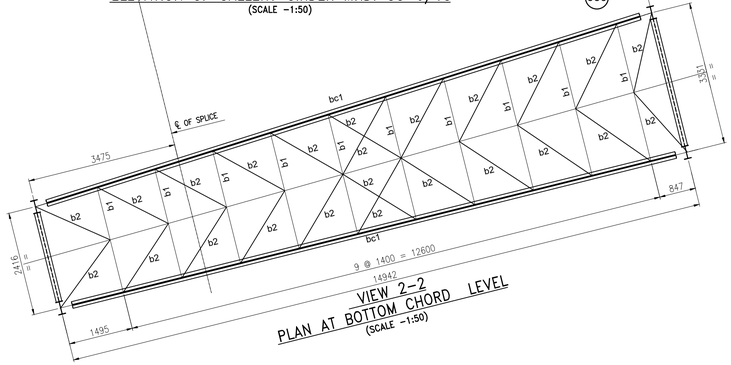
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



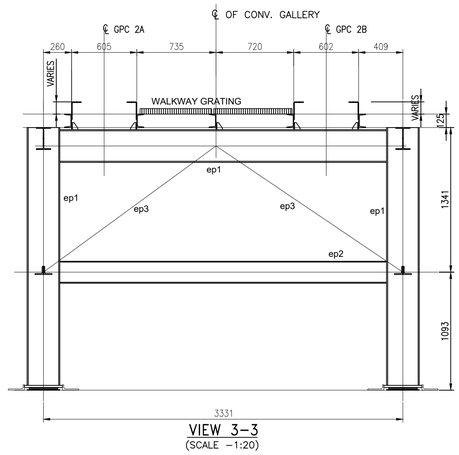
VIEW 1–1
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 100 MM BELOW FROM TOP CHORD LEVEL
(SCALE –1:50)



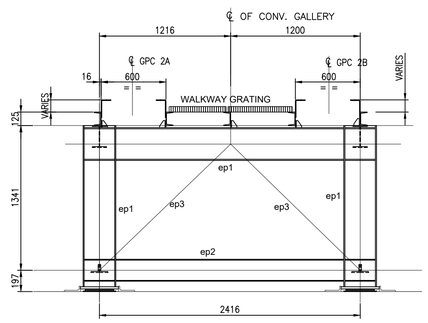
ELEVATION OF GALLERY GIRDER MKD. CG–6/15
(SCALE –1:50)



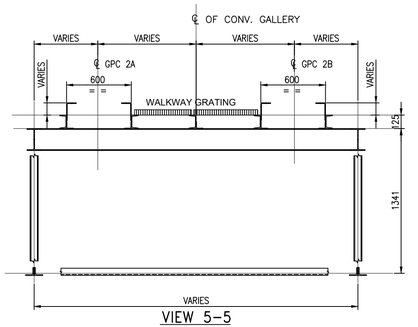
VIEW 2–2
PLAN AT BOTTOM CHORD LEVEL
(SCALE –1:50)



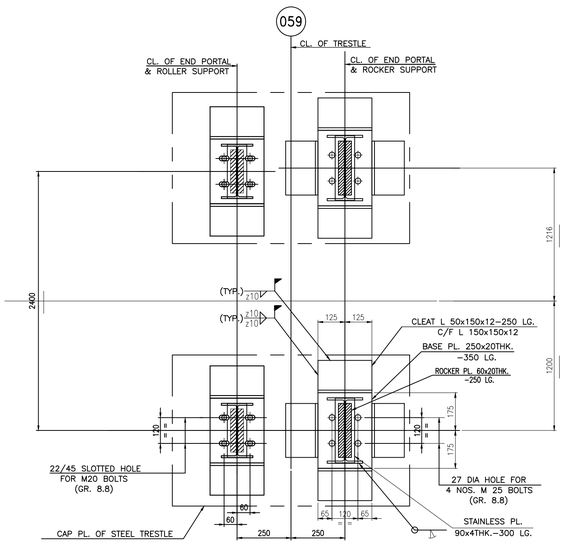
VIEW 3–3
(SCALE –1:20)



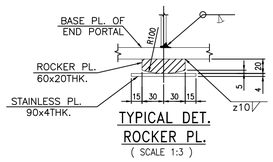
VIEW 4–4
(SCALE –1:20)



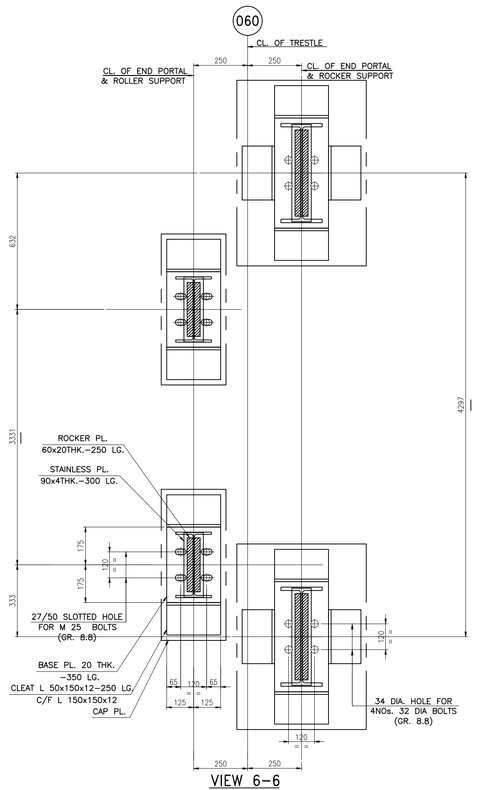
VIEW 5–5
(SCALE –1:20)



VIEW 7–7
(SCALE –1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 6–6
(SCALE –1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBER FOR GPC CG-6/15 M. GALLERY

SL. NO.	ERECTION MARKS		SECTION	FORCE(kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	100
	HORIZONTAL GIRDER OF TOP CHORD LEVEL	a1	L 90 x 90 x 8	140
		a2	L 65 x 65 x 6	160
		t1	UB 203x133x25	70
2	BOTTOM CHORD	bc1	2Ls 75 x 75 x 8	60
	HORIZONTAL GIRDER OF BOTTOM CHORD LEVEL	b1	2Ls 65 x 65 x 6	20
		b2	2Ls 65 x 65 x 6	25
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50 x 50 x 6	160
5	END PORTAL	ep1	UB 305x165x40	100
		ep2	UB 203x133x25	100
		ep3	2Ls 75 x 75 x 8	20
6	WALKWAY STRINGER	w1	ISMC 125 + 1-90x6 THK. HORZ. PL. 1-6 THK. VERT. PL. (90, VARIES)	10
		w2	ISMC 125	10
7	FLOOR PL.		GRATING	

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. FOR LOCATION OF CONV. GALLERY REFER LAYOUT DWG. NO. S18–45068–GPC 2AB–LD

BEUMERGROUP

Name	Date	%A/T%	Order No.:	618-450068
Rau	05/09/2019	Issued	Tech.Pos.:	-
Malick	06/09/2019	Gepr.	Contact:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-6/15 GPC 2A/2B
Drawing No.: S18_45068_GPC 2A/2B_LD_006
Scale: nts
Sheet/of: 1 / 1
ISO 14405 | Ind | Modification | Ref.: - | Origin | - | Replacement for | - | Replaced by | -
ISO 13920-A/E

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

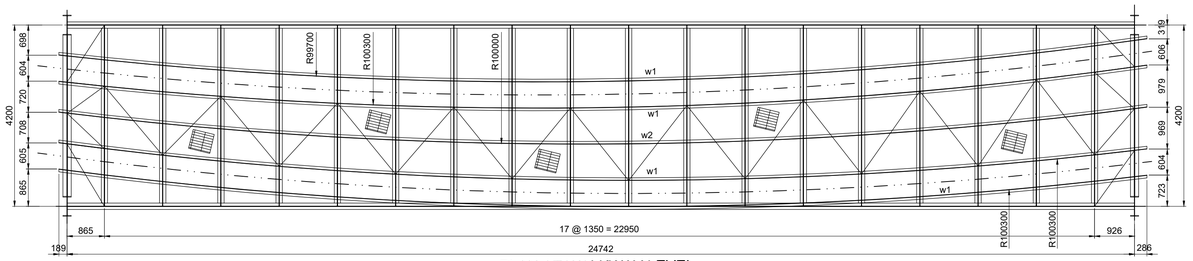
	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHT 60
TITLE:

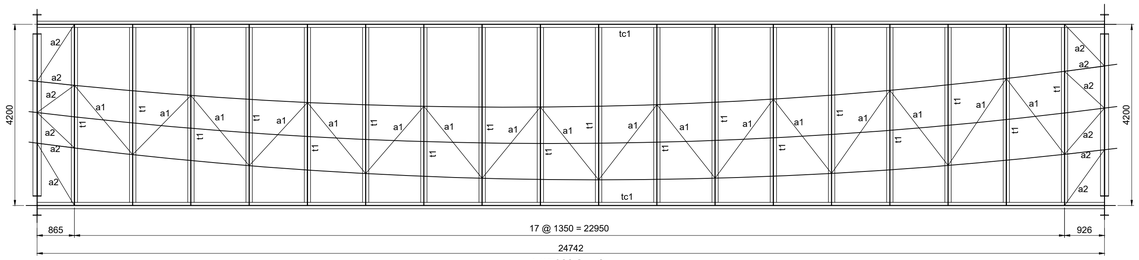
SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 1
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177586–ISG		

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

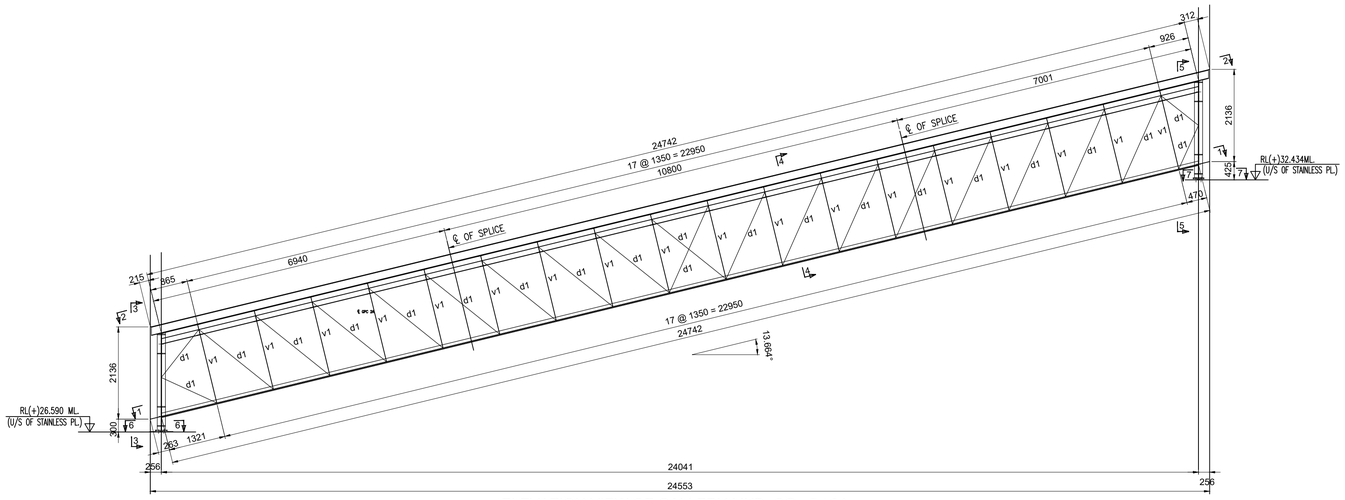
A0 [1189 x 841]



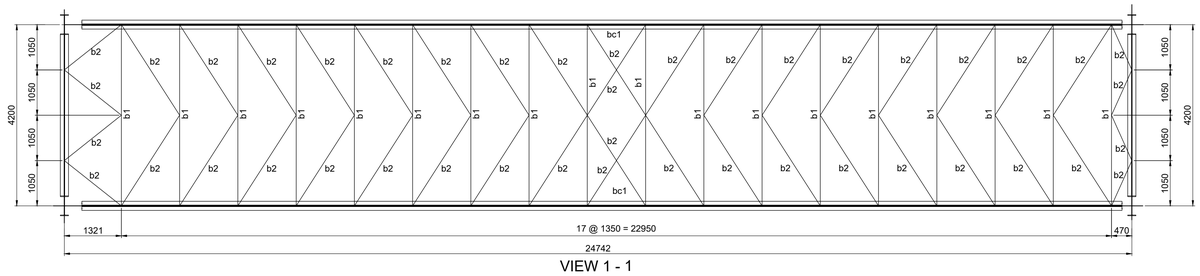
PLAN AT WALKWAY LEVEL



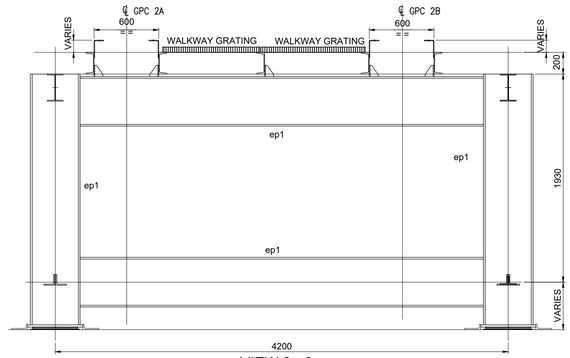
VIEW 2 - 2



ELEVATION VIEW OF GALLERY MKD. CG - 7 / 24

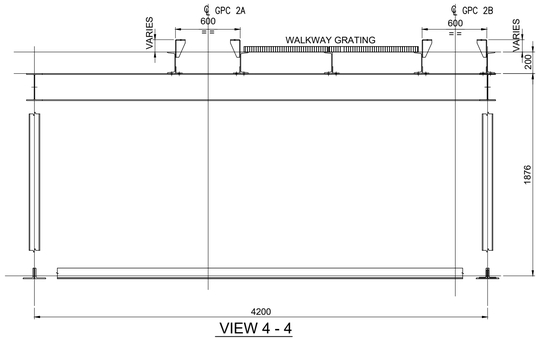


VIEW 1 - 1

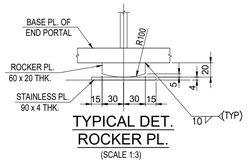


VIEW 3 - 3
VIEW 5 - 5

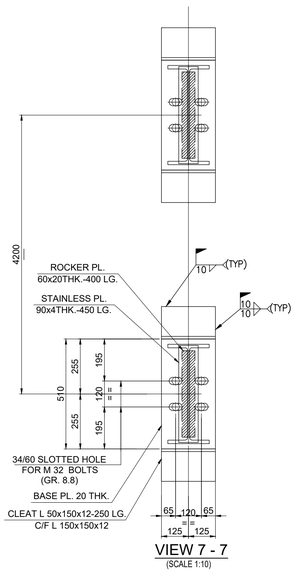
SCHEDULE OF MEMBER				
SL. NO.	ERECTION MARKS		SECTION	FORCE(kN) AXIAL
1	TOP CHORD	tc1	UB 254x146x31	150
	HORIZONTAL GIRDER OF TOP CHORD LEVEL	a1	2Ls 100 x 100 x 10	270
		a2	2Ls 90 x 90 x 8	580
		t1	UB 254x146x31	50
2	BOTTOM CHORD	bc1	2Ls 100 x 100 x 10	120
	HORIZONTAL GIRDER OF BOTTOM CHORD LEVEL	b1	2Ls 75 x 75 x 8	55
		b2	2Ls 65 x 65 x 6	50
3	VERTICAL	v1	ISMC 100	160
4	DIAGONAL	d1	2Ls 75 x 75 x 8	200
5	END PORTAL	ep1	UB 457x191x82	130
6	WALKWAY STRINGER	w1	ISMC 200 + 1-90x6 THK. HORZ. PL. 1-6 THK. VERT. PL	60
		w2	ISMC 200	60
7	FLOOR PL.		GRATING	



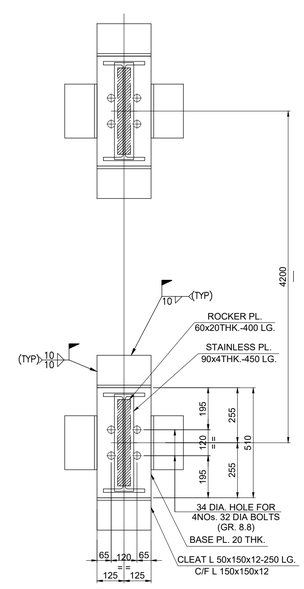
VIEW 4 - 4



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 7 - 7
(SCALE 1:10)



VIEW 6 - 6
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP				Customer	BHARAT HEAVY ELECTRICALS LTD.
Name	Date	%A.T%	Order No.: 618-450068	Designation	STRUCTURAL GA OF CG-7/24
Basu	05/09/2019	Issued	Tech.Pos.: -		GPC 2A/2B
Mallick	06/09/2019	Gepr.	Contact: %SACHBE%	Drawing No.	S18_45068_GPC 2A/2B_LD_007
ISO 14405		Ind	Modification	Ref.: -	Scale: nts; Sheet/of: 1 / 1
ISO 13920-A/E			Origin	-	Replacement for: - Replaced by: -

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

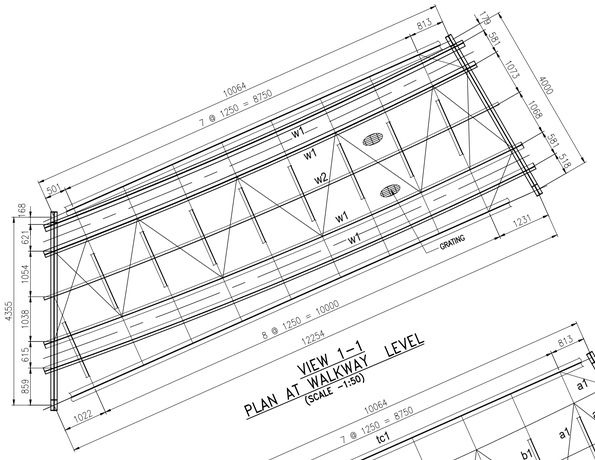
	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHT 61
TITLE:

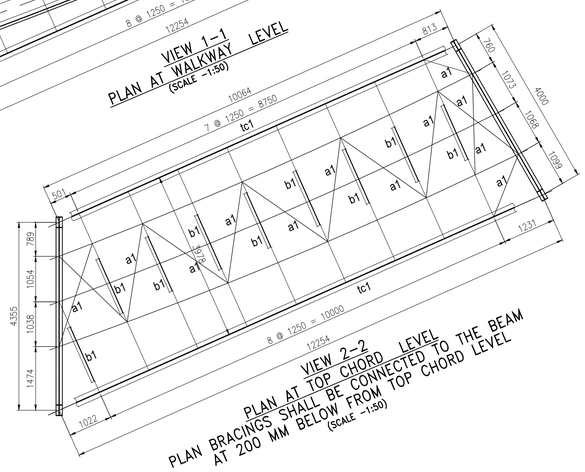
SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 1
CUSTOMER DRAWING NO.:	Maitree–00–UED–LC–177586–ISG		

A0 [1189 x 841]

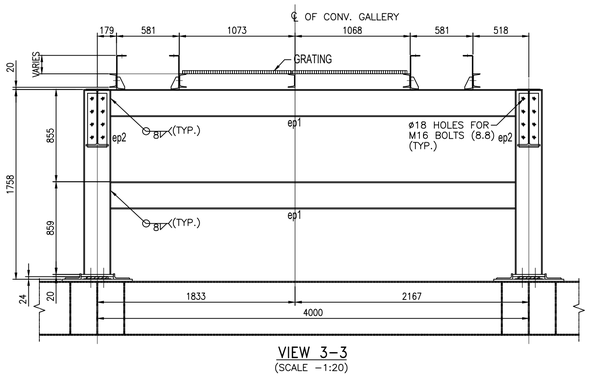
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



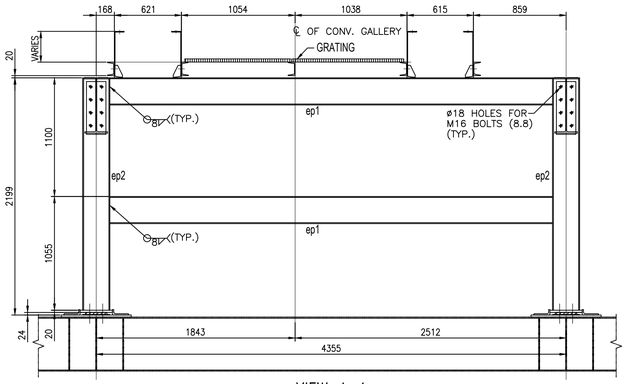
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



VIEW 2-2
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW FROM TOP CHORD LEVEL
(SCALE -1:50)

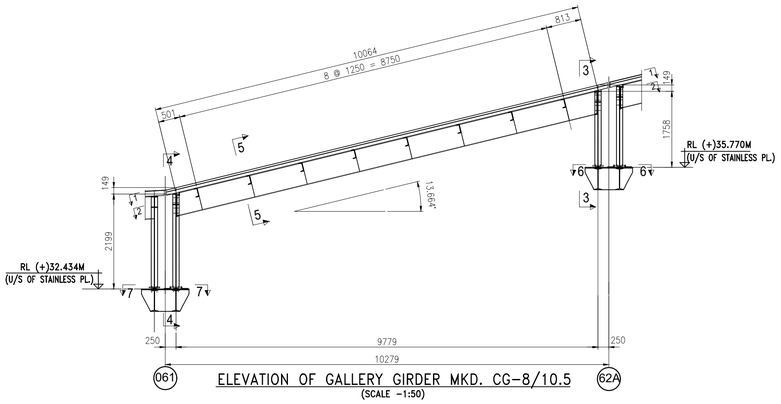


VIEW 3-3
(SCALE -1:20)

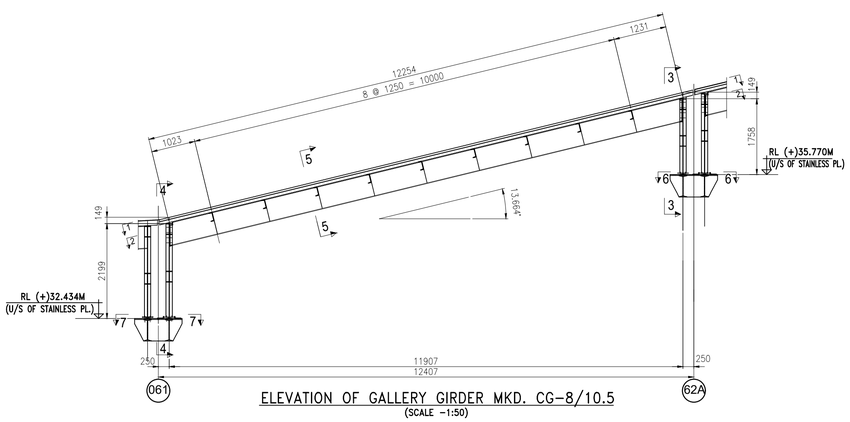


VIEW 4-4
(SCALE -1:20)

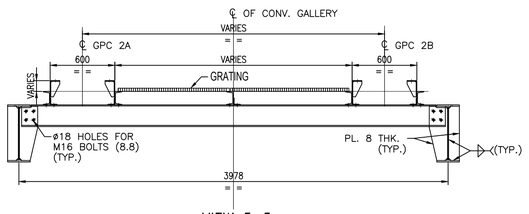
SCHEDULE OF MEMBERS FOR GPC CG-4/12 M. GALLERY				
SL. NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x82	100
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 200	15
		a1	L 75x75x8	120
2	END PORTAL	ep1	UB 254x146x31	100
		ep2	UB 254x146x31	80
		ep3	2 FLG. PL. 250x20 1 WEB. PL. 570x16	120
		ep4	UB 305x165x40	45
3	WALKWAY STRINGERS	w1	ISMC 125 + 1-90x6 THK. HORZ. PL. 1-6 THK. VERT. PL. (90, varies)	70
		w1	ISMC 125	70
4	GST. PL.		8 mm. THK.	
5	WALKWAY		FLOORING WITH GRATING	



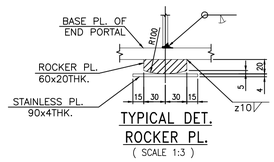
ELEVATION OF GALLERY GIRDER MKD. CG-8/10.5
(SCALE -1:50)



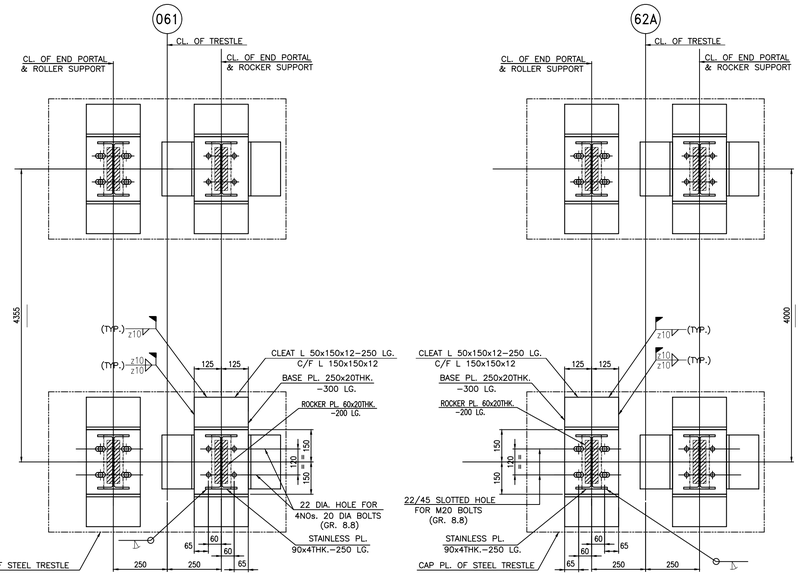
ELEVATION OF GALLERY GIRDER MKD. CG-8/10.5
(SCALE -1:50)



VIEW 5-5
(SCALE -1:20)



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 7-7
(SCALE -1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

VIEW 6-6
(SCALE -1:10)
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name	Date	%A T%	Order No.:	618-450068
Rieu	05/09/2019	Issued	Tech.Pos.:	-
Malick	06/09/2019	Gepr.	Contact:	%SACHBE%

ISO 14405 ISO 13920-A/E

Ind	Modification	Ref: -
		Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-8/10.5 GPC 2A/2B
Drawing No.: S18_45068_GPC 2A/2B_LD_008
Scale: NTS
Sheet/of 1 / 1
- Replacement for - Replaced by -

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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

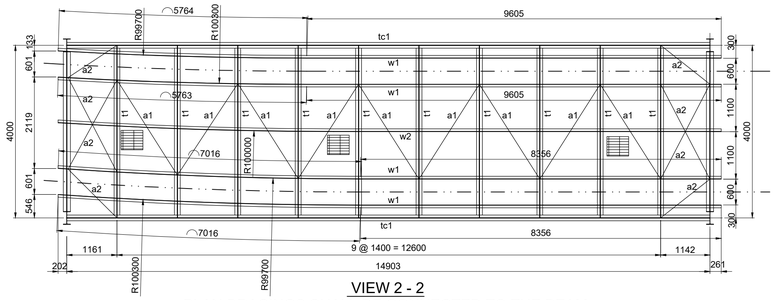
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHT 62
TITLE:
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
STATUS OF DRG.: FOR APPROVAL
SIZE– A0 [1189 x 841]
PROJECT NO.: 618-450068
ANNEX.: –
DRAWING NO.: ----
REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177586-ISG

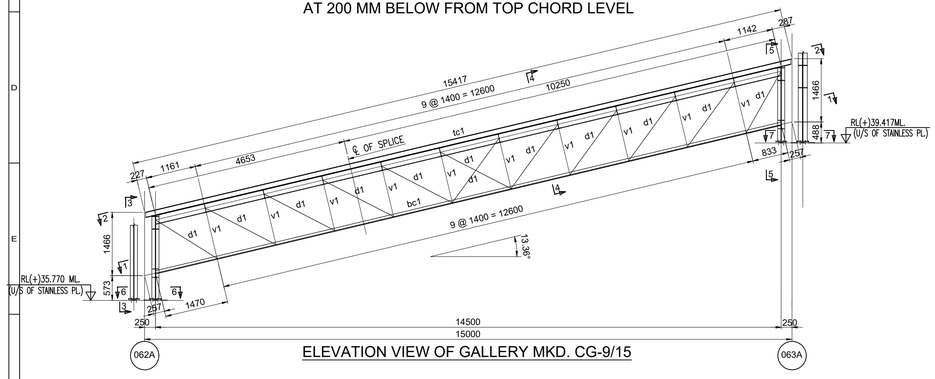
AO [1189 x 841]

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

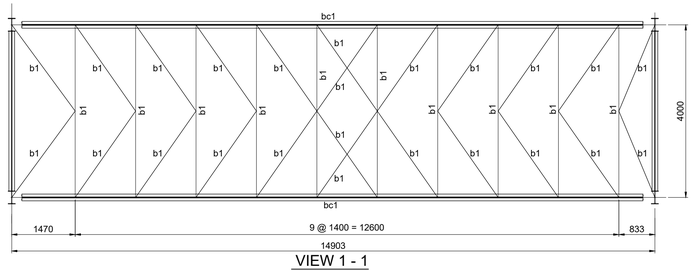


VIEW 2 - 2

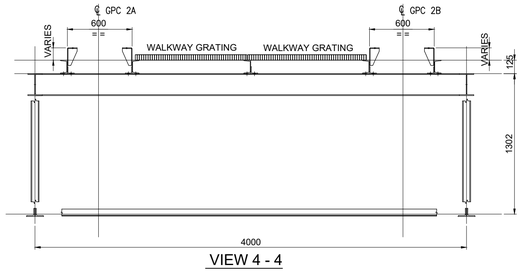
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 200 MM BELOW FROM TOP CHORD LEVEL



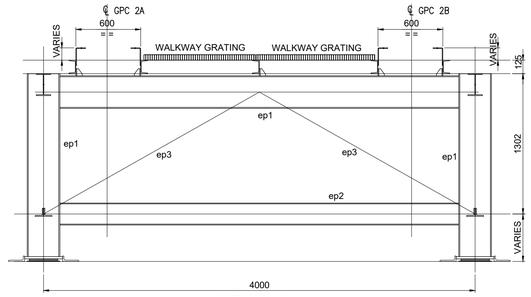
ELEVATION VIEW OF GALLERY MKD. CG-9/15



VIEW 1 - 1

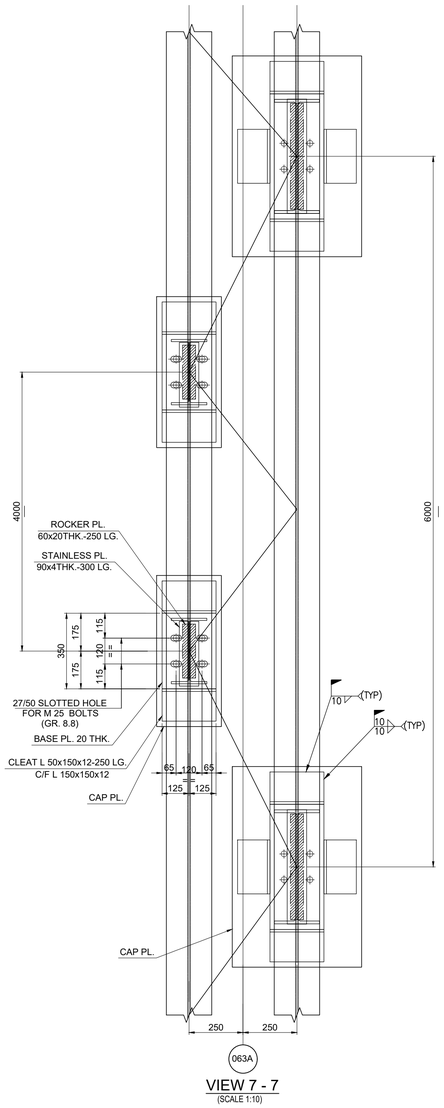


VIEW 4 - 4

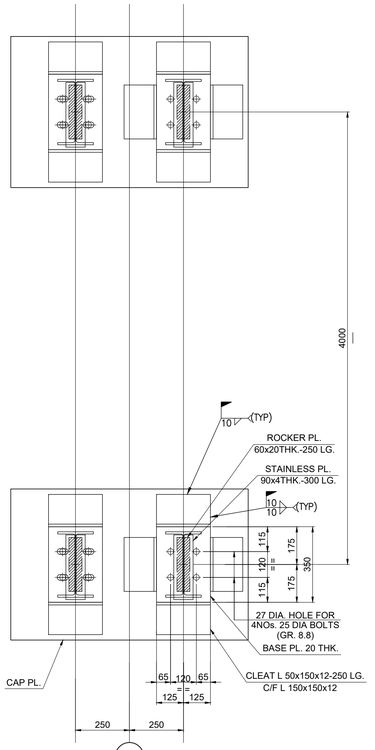


VIEW 3 - 3
VIEW 5 - 5

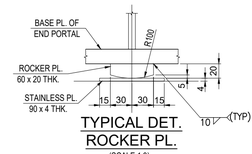
SCHEDULE OF MEMBER				
SL. NO.	ERECTION MARKS		SECTION	FORCE(kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	100
	HORIZONTAL GIRDER OF TOP CHORD LEVEL	a1	L 90 x 90 x 8	140
		a2	L 65 x 65 x 6	160
		t1	UB 203x133x25	70
2	BOTTOM CHORD	bc1	2Ls 75 x 75 x 8	60
	HORIZONTAL GIRDER OF BOTTOM CHORD LEVEL	b1	2Ls 65 x 65 x 6	25
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50 x 50 x 6	160
5	END PORTAL	ep1	UB 305x165x40	100
		ep2	UB 203x133x25	100
		ep3	2Ls 75 x 75 x 8	20
6	WALKWAY STRINGER	w1	ISMC 125 + 1-90x6 THK. HORZ PL. + 1-6 THK. VERT. PL. (90, 1, VARIES)	10
		w2	ISMC 125	10
7	FLOOR PL.		GRATING	



VIEW 7 - 7
(SCALE 1:10)



VIEW 6 - 6
(SCALE 1:10)



TYPICAL DET. ROCKER PL.
(SCALE 1:3)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany

SCALE: NTS

SHT 63

TITLE:

SUPERSEDES		BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.: -----	REV.: 1
CUSTOMER DRAWING NO.:		Maitree–00–UED–LC–177586–ISG	

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	06/09/2019	Issued	Tech.Pos.:	-
Mallick	06/09/2019	Geprf.	Contract:	%SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-9/15 GPC 2A/2B

Drawing No.: S18_45068_GPC 2A/2B_LD_009

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Scale: n/a

Sheet/of 1 / 1

ISO 14405 ISO 13920-A/E Ind. Modification Ref.: - Origin - Replacement for - Replaced by -

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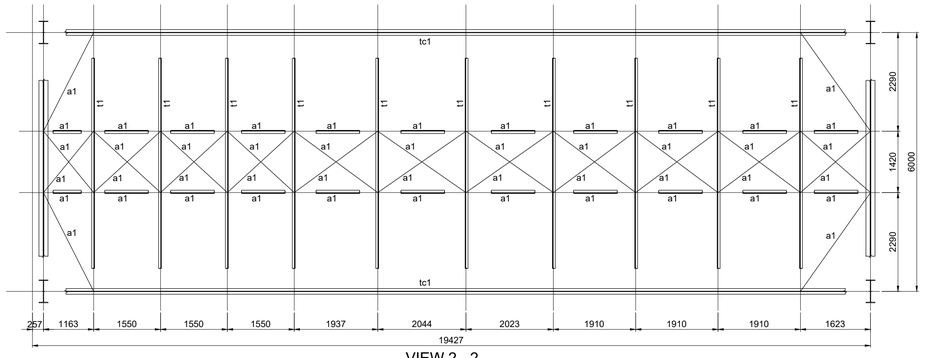
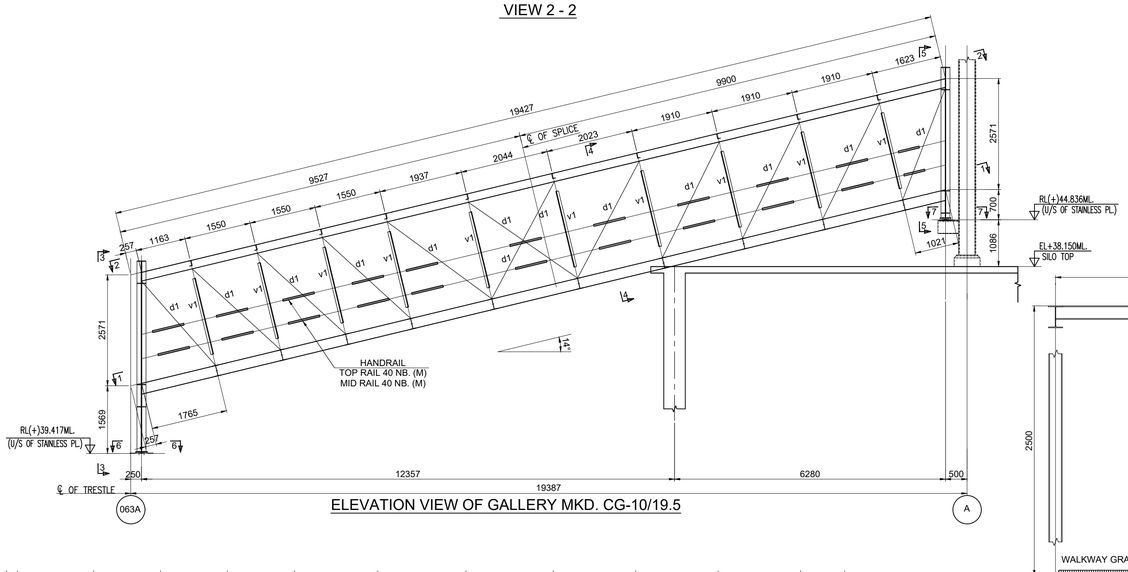
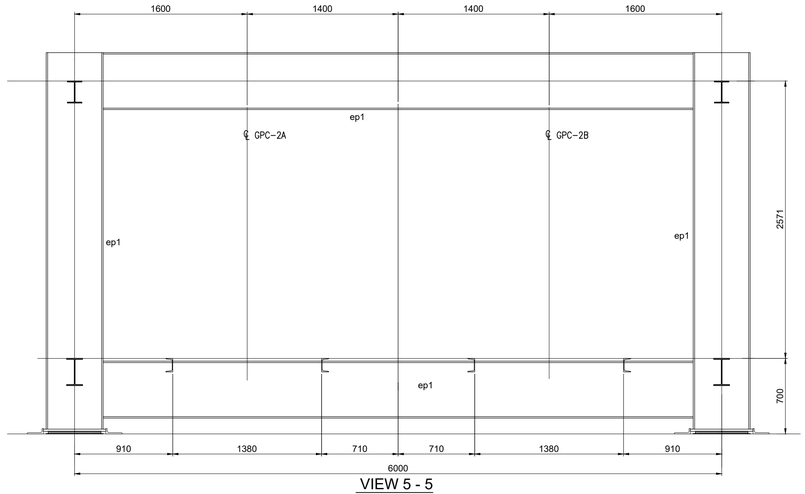
A2 [1189 x 841]



VIEW 2 - 2

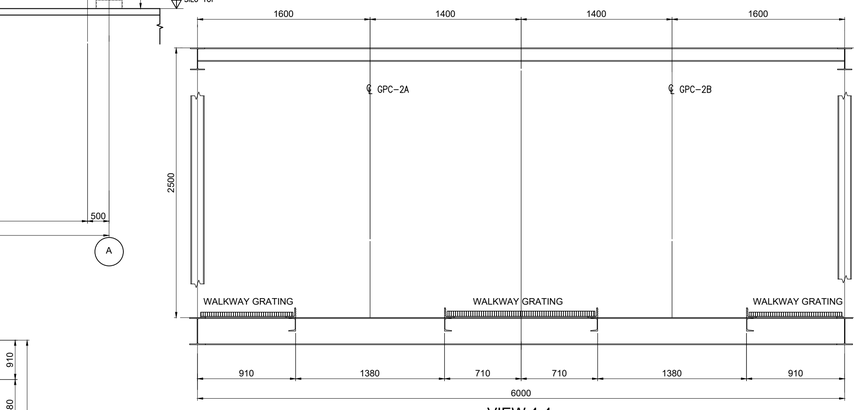


ELEVATION VIEW OF GALLERY MKD. CG-10/19.5

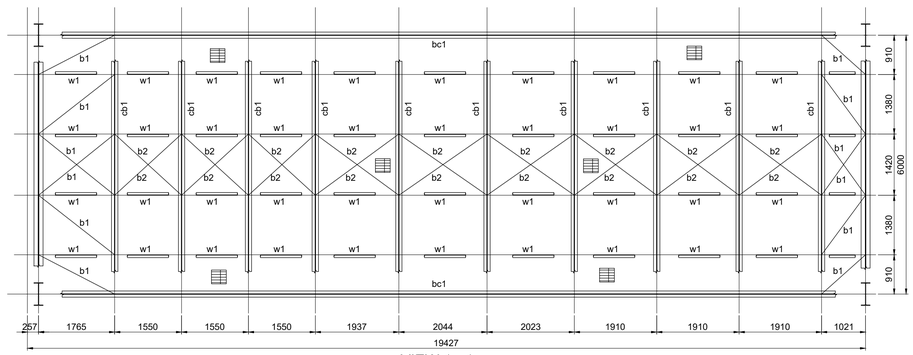


VIEW 5 - 5

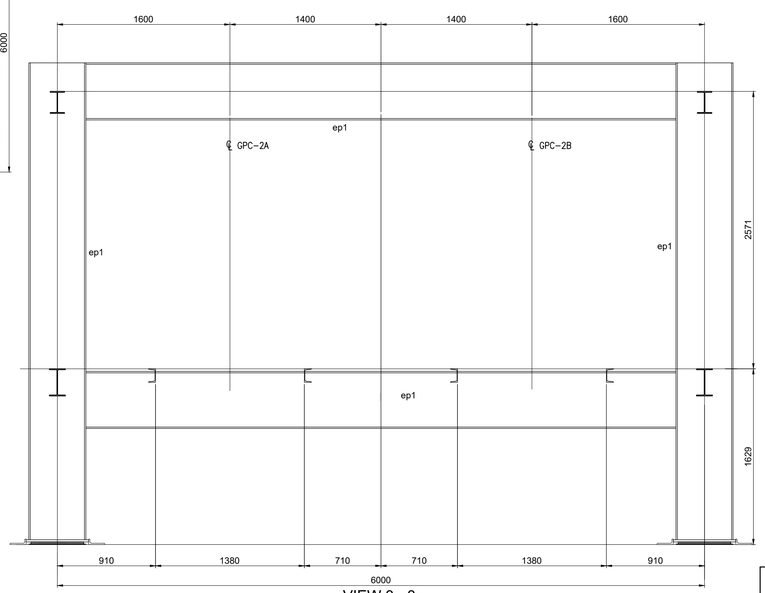
SCHEDULE OF MEMBER				
SL. NO.	ERECTION MARKS		SECTION	FORCE(kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	140
	HORIZONTAL GIRDER OF TOP CHORD LEVEL	a1	L 75 x 75 x 8	120
		t1	ISMC 125	90
2	BOTTOM CHORD	bc1	UB 254x146x31	120
	HORIZONTAL GIRDER OF BOTTOM CHORD LEVEL	b1	L 100 x 100 x 10	160
		b2	L 75 x 75 x 8	50
3	CROSS BEAM	cb1	UB 254x146x31	80
4	VERTICAL	v1	ISMC 125	190
5	DIAGONAL	d1	2Ls 75 x 75 x 8	265
6	END PORTAL	ep1	UB 533x210x82	140
7	WALKWAY STRINGER	w1	ISMC 125	45
8	FLOOR PL.		GRATING	



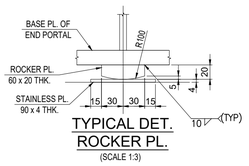
VIEW 4-4



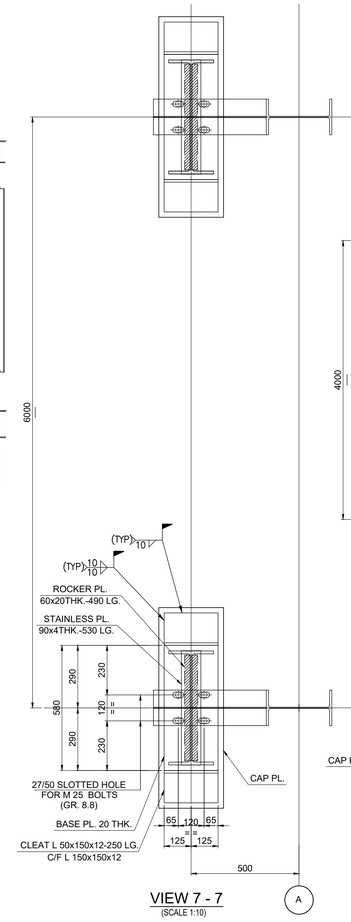
VIEW 1 - 1



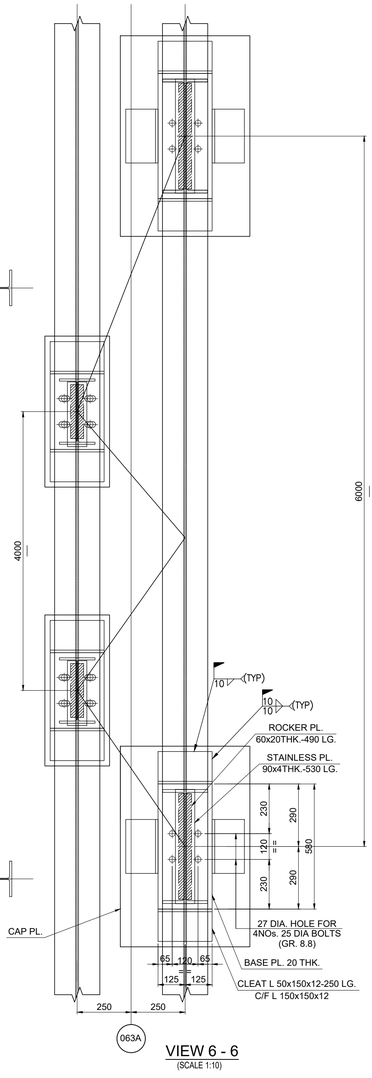
VIEW 3 - 3



TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 7 - 7
(SCALE 1:10)



VIEW 6 - 6
(SCALE 1:10)

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHT 64
TITLE:

SUPERSEDES	BHEL JOB NO.: –	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618-450068	
SYSTEM	ANNEX.: –	DRAWING NO.: ----	REV.: 1
CUSTOMER DRAWING NO.:	Maitree-00-UED-LC-177586-ISG		

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	05/09/2018	Issued	Tech.Pos.: -
Mallick	05/09/2018	Dept	Contract: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-10/19.5 GPC 2A/2B
Drawing No.: S18_45068_GPC 2A/2B_LD_010
Scale: nts
Sheet of 1 / 1

ISO 14405 ⓒ ⓔ ISO 13920-A/E
Ind | Modification | Ref.: -
Origin
Replacement for: -
Replaced by

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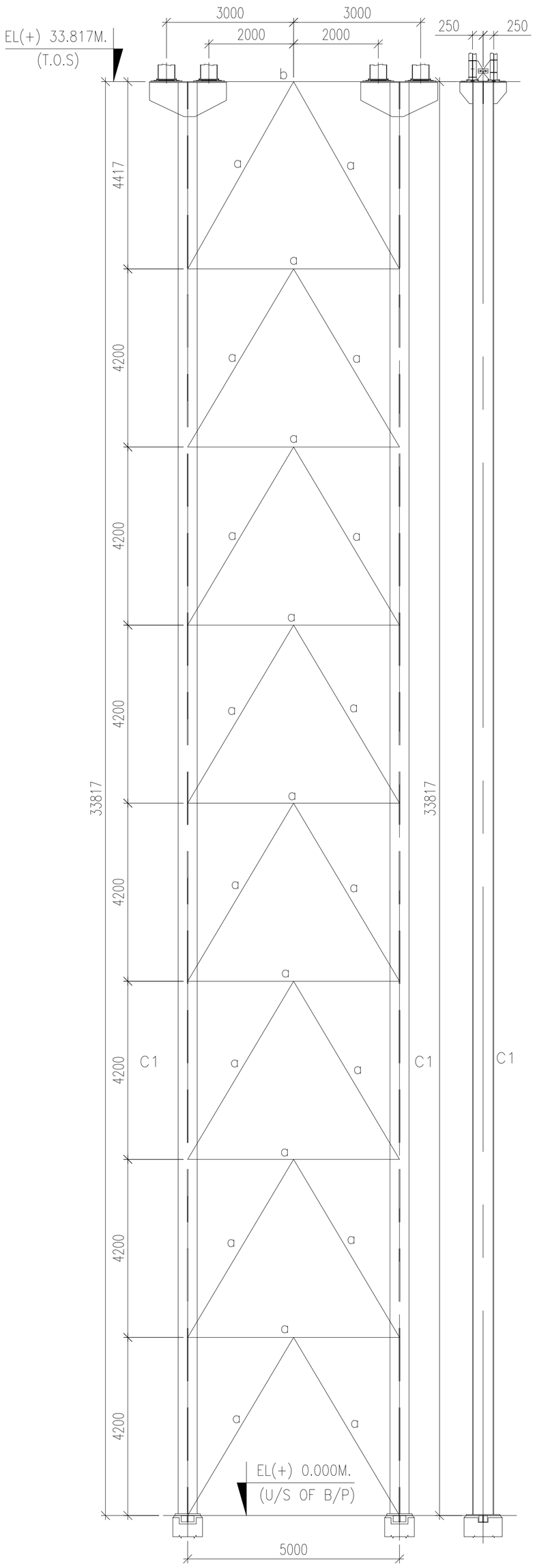
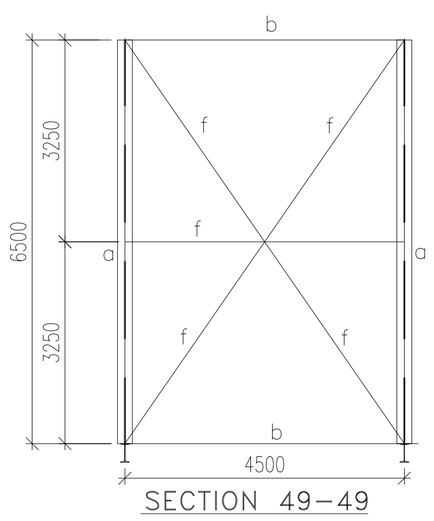
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

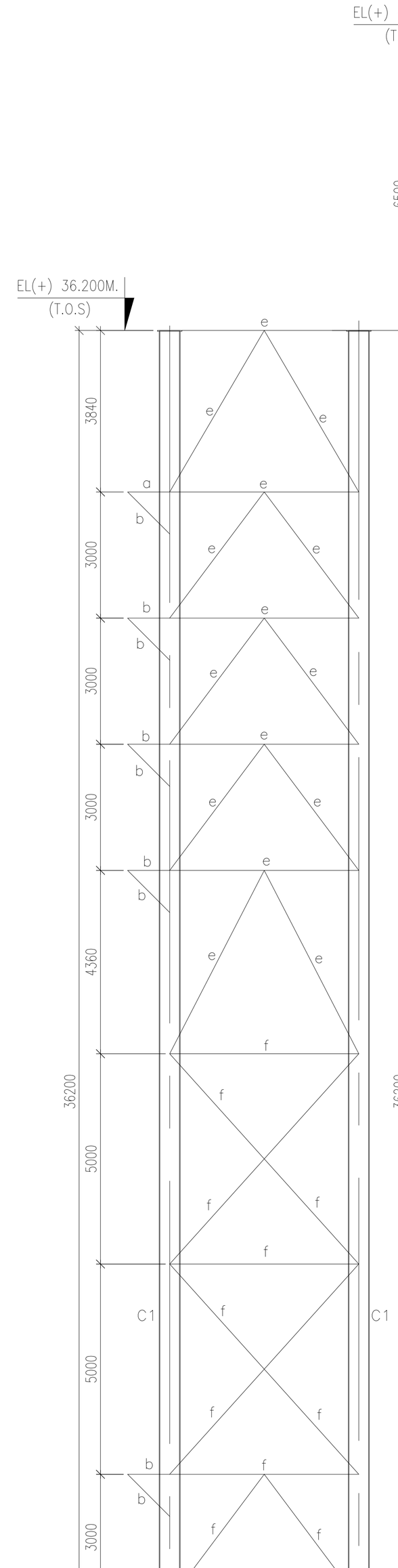
A0 [1189 x 841]



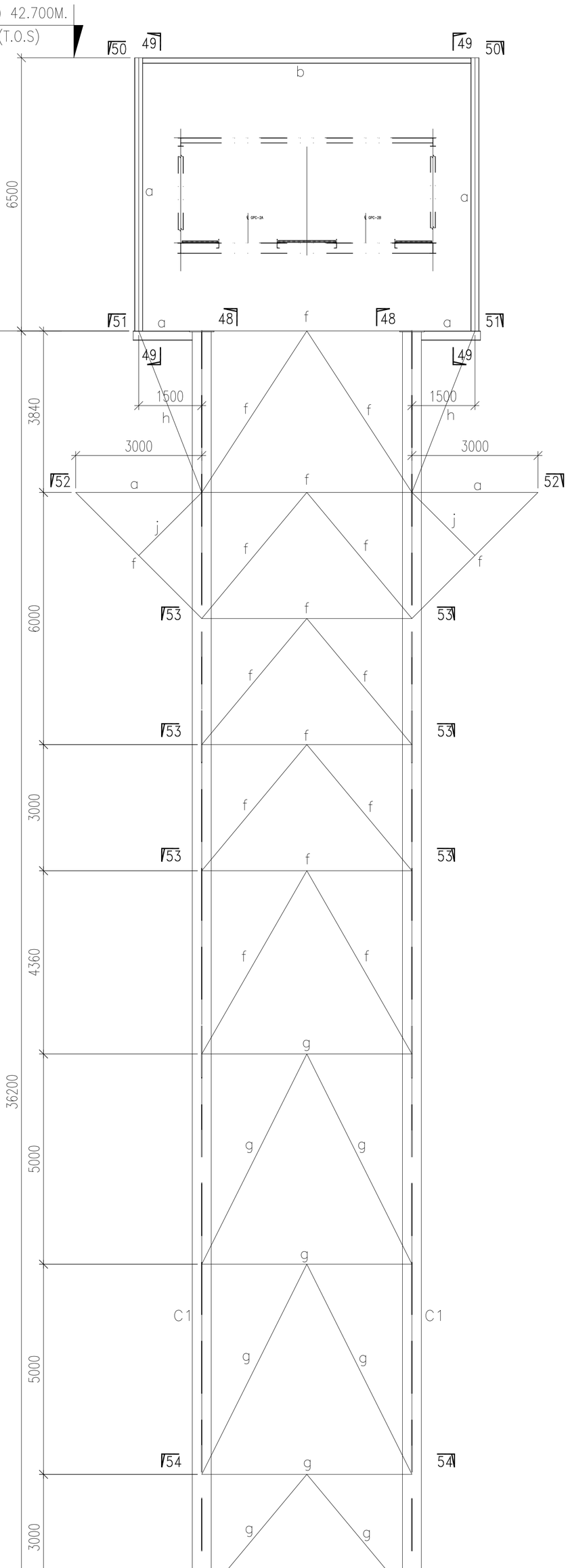
DETAIL OF TRESTLE MKD. GPC/TR-63A



SECTION 49-49



SECTION 48-48



DETAIL OF TRESTLE MKD. GPC/TR-64,65

PLAN 50-50

PLAN 51-51

PLAN 52-52

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23.

LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_037

	Name	Date
Bdes	-	13/08/2019
Mdes	-	14/08/2019

%SAT%: - Order-No.: 618-450068
Tested: - Tech-Pos.: -
Contract: - %SACHBE%
Modification: - Ref.: -
Origin:

Ind	Modification	Ref.:	Name	Date
-	-	-	-	-
A	-	-	-	-
B	-	-	-	-
C	-	-	-	-
D	-	-	-	-
E	-	-	-	-

Scale: nts
Sheet/of: 1 / 1

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Replaced by: - Replacement for: -

ISO 14001 ISO 13920-A/E

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

CUSTOMER CONSULTANT: FICHTNER W/s FICHTNER GmbH & Co KG, Stuttgart, GERMANY

CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD. DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinenfabrik, Germany

REV	DATE	DRN/CHD/APPD	DESCRIPTION/NOTE
1			
2			
3			
4			

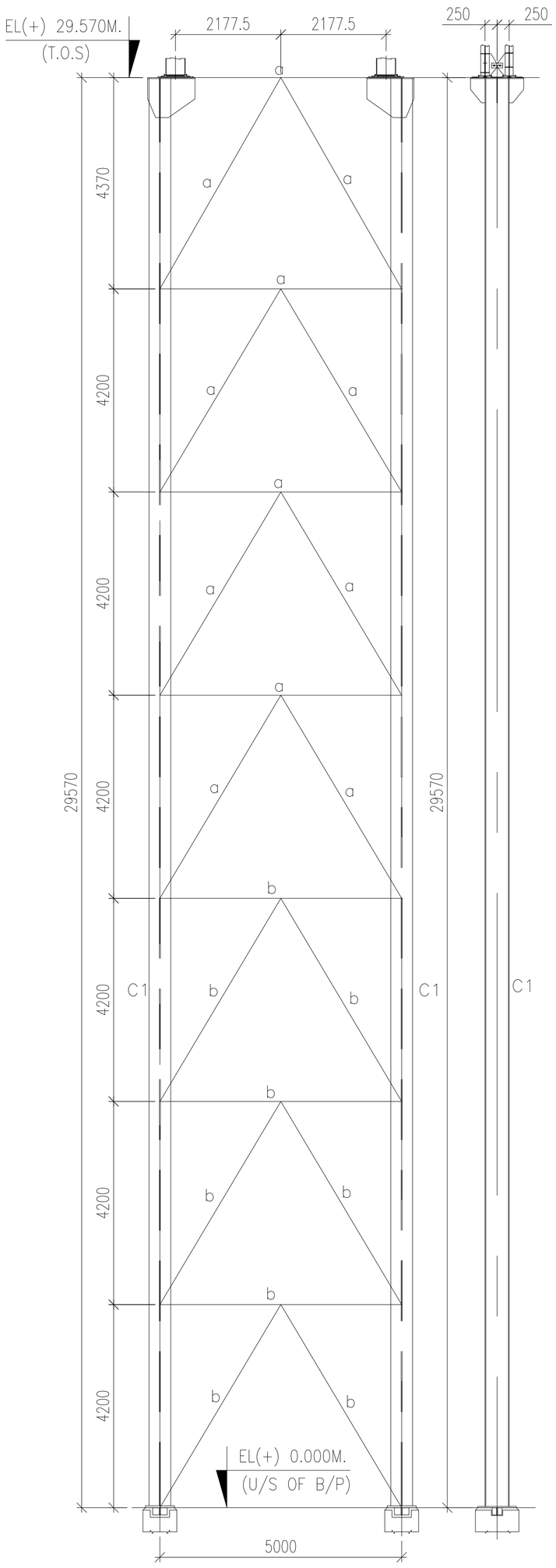
	NAME	DATE
DRN	-	10.12.2018
CHD	-	11.12.2018
APPD	-	11.12.2018

SUPERSEDES
SUPERSEDED BY
SYSTEM
CUSTOMER DRAWING NO.: MaiTree-00-UED-LC-177353-ISG

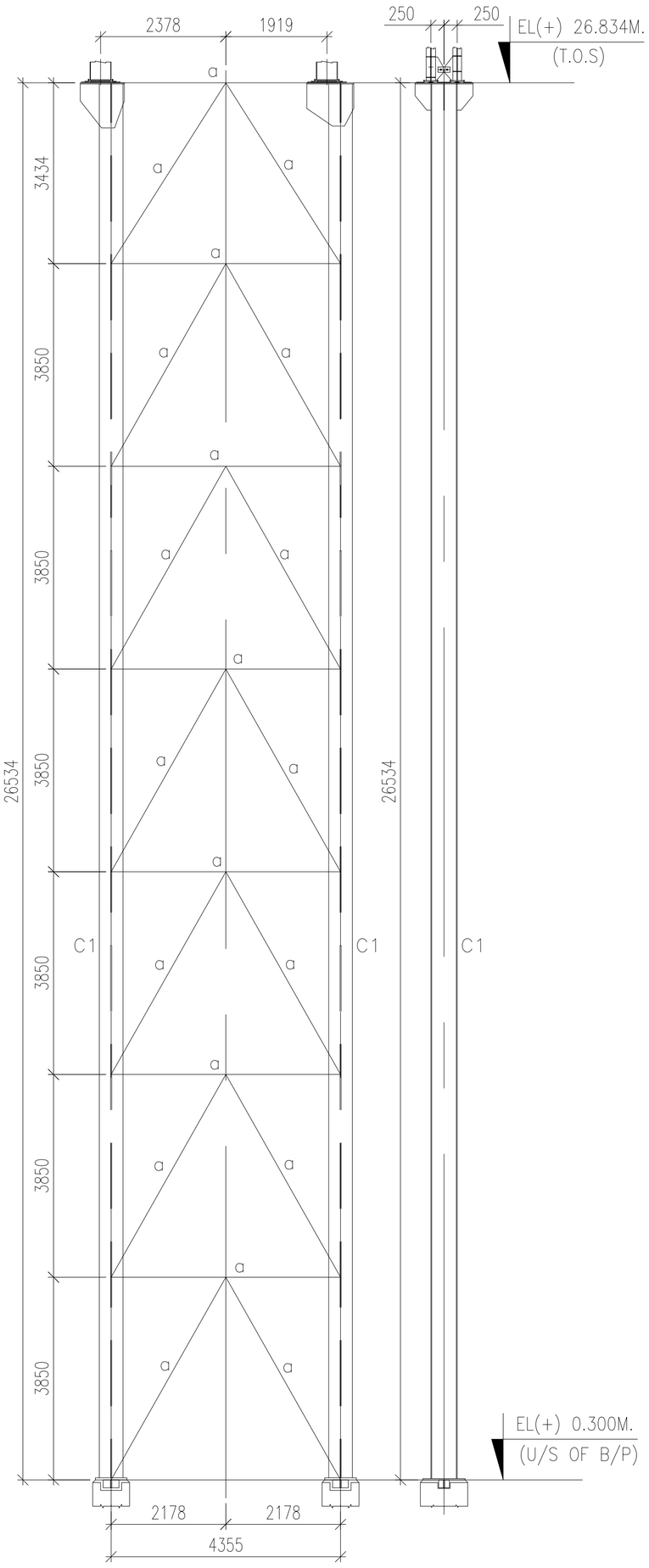
BHEL JOB NO.: -
SIZE- A0 [1189 x 841]
ANNEX.: -
DRAWING NO.: ----

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068

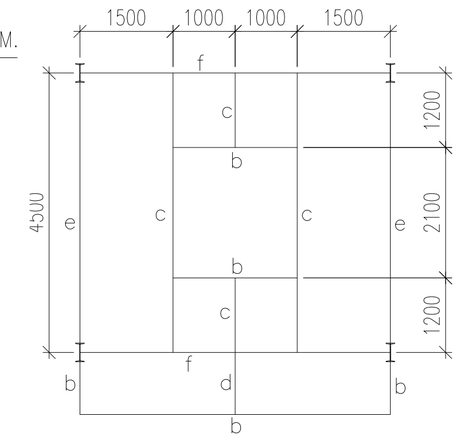
SCALE NTS
SHEET 65 OF
REV.: 1



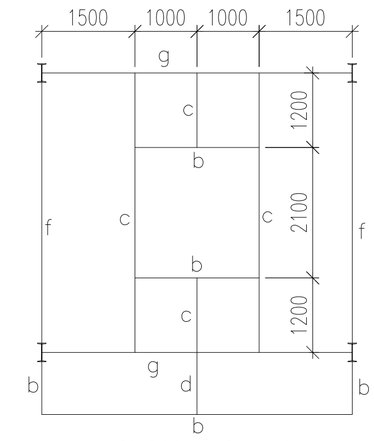
DETAIL OF TRESTLE MKD. GPC/TR-62A



DETAIL OF TRESTLE MKD. GPC/TR-61



PLAN 53-53



PLAN 54-54

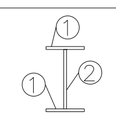
TABLE OF MEMBER FOR GPC/TR-61			
MARK.	PROFILE	SECTION	REMARKS
C1		① PL. 450X32 THK. ② PL. 736X20 THK.	
a		ISMC 200	

TABLE OF MEMBER FOR GPC/TR-62A			
MARK.	PROFILE	SECTION	REMARKS
C1		① PL. 450X36 THK. ② PL. 728X25 THK.	
a		ISMC 200	
b		ISMC 150	

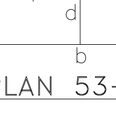
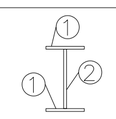
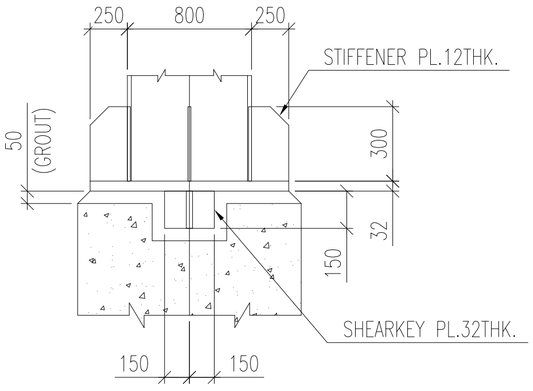
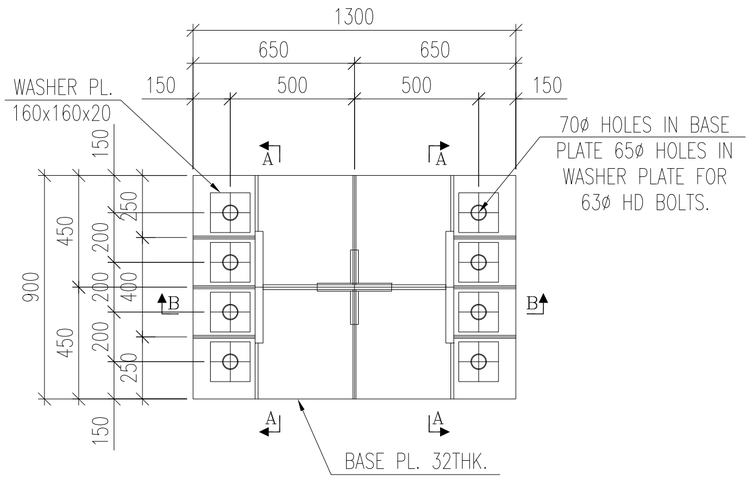
TABLE OF MEMBER FOR GPC/TR-63A			
MARK.	PROFILE	SECTION	REMARKS
C1		① PL. 450X32 THK. ② PL. 736X20 THK.	
a		ISMC 200	
b		ISMC 400	

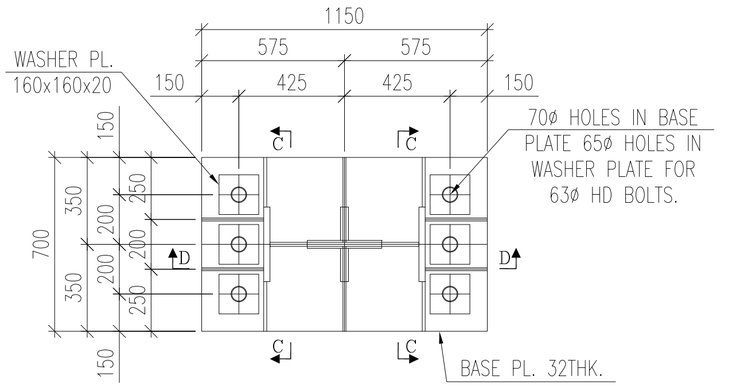
TABLE OF MEMBER FOR GPC/TR-64,65			
MARK.	PROFILE	SECTION	REMARKS
C1		① PL. 300X25 THK. ② PL. 600X16 THK.	
a		ISMB 500	
b		ISMB 300	
c		ISMB 250	
d		ISMB 200	
e		ISMC 125	
f		ISMC 150	
g		ISMC 200	
h		ISMC 300	
j		2-ISA 75x75x6	



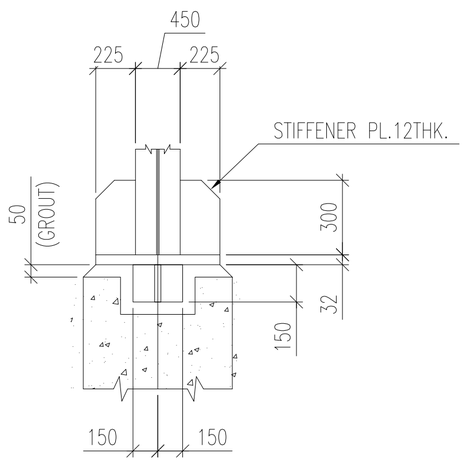
SECTION B-B



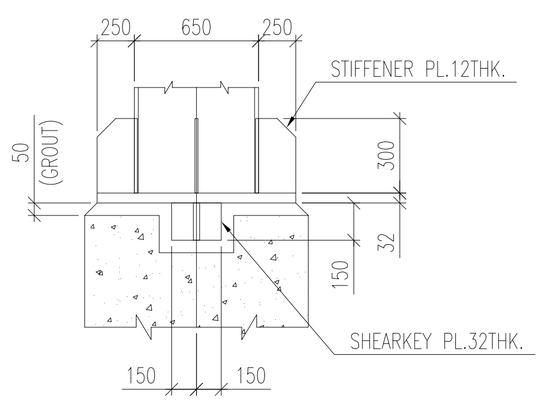
TYP. DETAIL OF BASE PLATE FOR TRESTLE MKD.GPC TR-61,62A & 63A



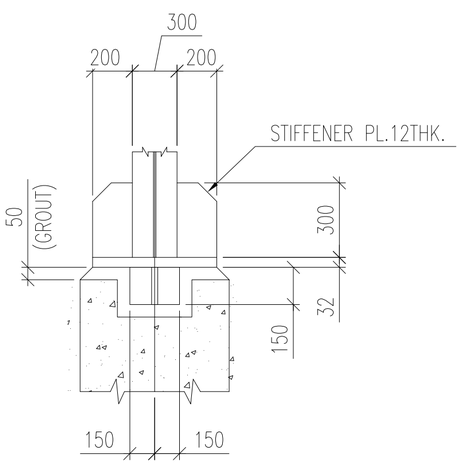
TYP. DETAIL OF BASE PLATE FOR TRESTLE MKD.GPC TR-64,65



SECTION A-A



SECTION D-D



SECTION C-C

NOTES :

1. ALL DIMENSIONS ARE IN mm. & ALL LEVELS ARE IN M. U.O.S.
2. ALL STRUCTURES CONNECTION ARE OF WELDED AT SHOP & BOLTED AT SITE.
3. ALL WELDS ARE 6 mm THK. CONTINUOUS FILLET U.O.S.
4. ALL ELEVATIONS LEVEL ± 0.00 CORRESPONDS TO RL+5.60M.
5. THIS DRG. SHALL BE READ IN CONJUNCTION WITH DRG. NO. MAITREE-00-UTX-LC-100200-PEM-2

BEUMERGROUP

Name / Date / %AT% / Order No.: 618-450068
Bearb.: 11/08/2018
Mallick: 14/09/2018
Gepr.: Contractc
Norm: ISO 14405 ⊕ ISO 13920-A/E
Ind. / Modification / Ref.: - / Origin: -

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY MKD. CG-67L/23. LSPC 1A/1B

Drawing No.: S18_45068_LSPC 1AB_LD_037

Scale: nts
Sheet of: 1 / 1

Replacement for: - / Replaced by: -

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REV.	DATE	DRN/CHD/APPD	DESCRIPTION/NOTE
1			
2			
3			
4			

CUSTOMER CONSULTANT: **FICHTNER** M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY

CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMERGROUP BEUMER Maschinenfabrik,Germany

TITLE: GA & LOAD DATA OF PIPE CONVEYOR LSPC-1A/B

BHEL JOB NO.: -

SIZE- A0 [1189 x 841]

ANNEX.: - DRAWING NO.: ----

CUSTOMER DRAWING NO.: Maitree-00-UED-LC-177353-ISG

	NAME	DATE
DRN	-	10.12.2018
CHD	-	11.12.2018
APPD	-	11.12.2018

SUPERSEDES

SUPERSEDED BY

SYSTEM

STATUS OF DRG.: FOR APPROVAL

PROJECT NO.: 618-450068

REV.: 1

SCALE NTS

SHEET 66 OF