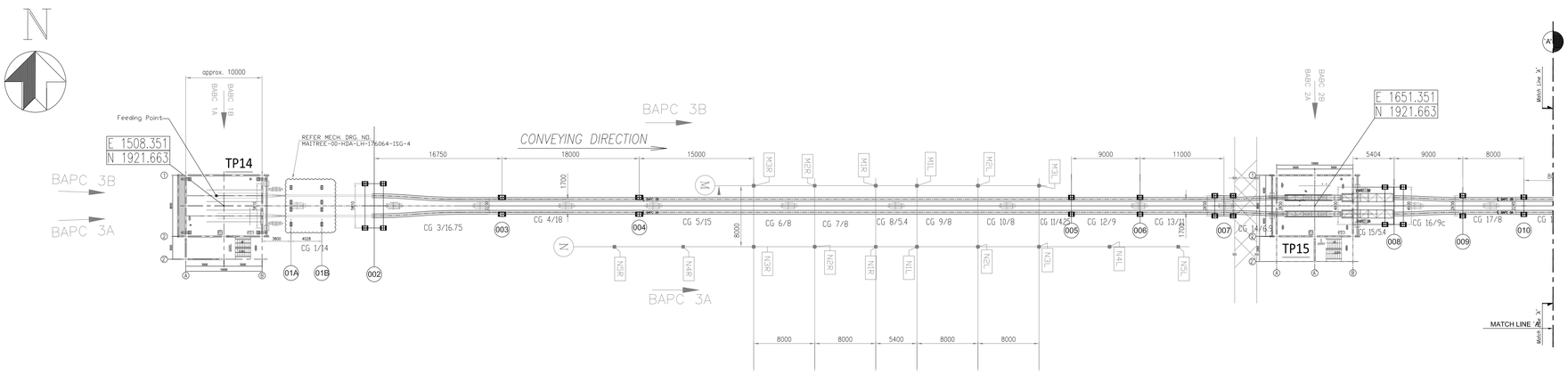
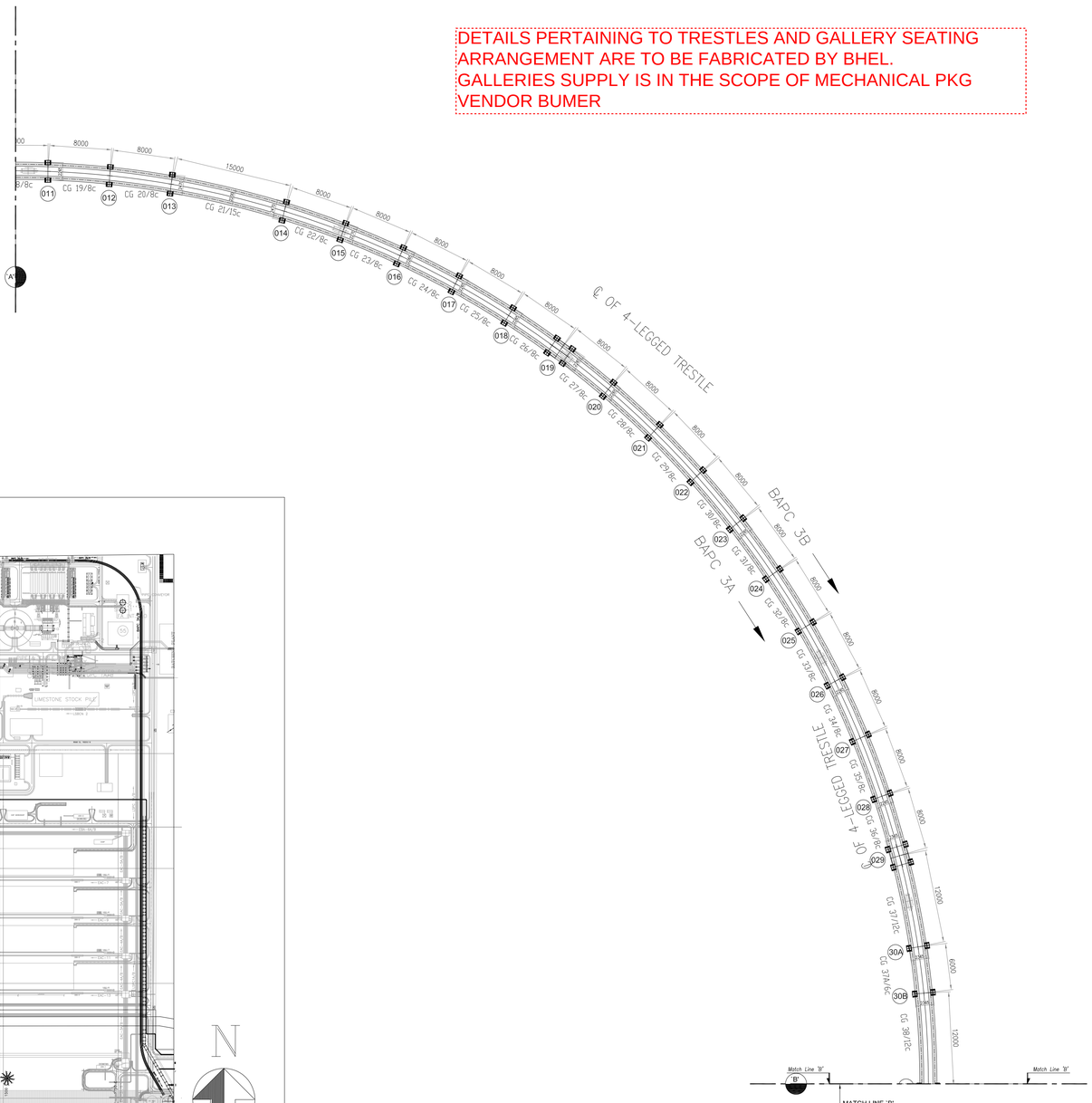


DETAILS PERTAINING TO TRESTLES AND GALLERY SEATING ARRANGEMENT ARE TO BE FABRICATED BY BHEL.
GALLERIES SUPPLY IS IN THE SCOPE OF MECHANICAL PKG VENDOR BUMER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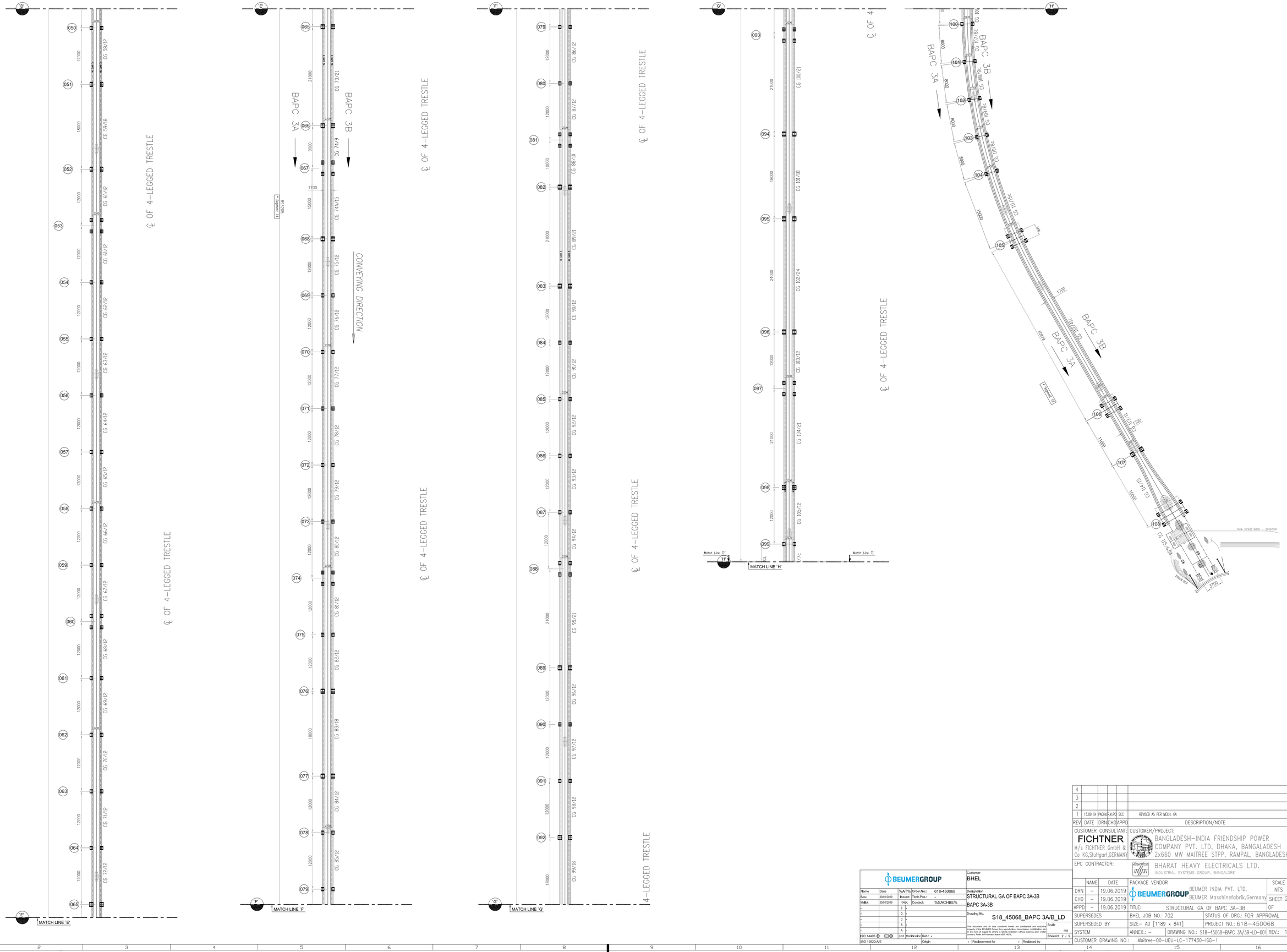

4					
3					
2					
1	13.09.19	PAO	KLP	SCC	REVISED AS PER MECH. GA
REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinenfabrik,Germany
SCALE: NTS
SHEET 2 OF
TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES	BHEL JOB NO.: 702 / STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY	SIZE- A0 [1189 x 841] / PROJECT NO.: 618-450068
SYSTEM	ANNEX.: – / DRAWING NO.: S18-45068-BAPC 3A/3B-LD-001 / REV.: 1
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-1

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	30/01/2019	Issued	Tech.Pos.:	-
Mallick	30/01/2019	Gep.	Contact:	%SACHBE%

Customer: BHEL
Designation: STRUCTURAL GA OF BAPC 3A-3B
BAPC 3A-3B
Drawing No.: S18_45068_BAPC 3A/B_LD
Scale: nts
Sheet of 2 / 9
ISO 14405 ℄ ⟺ ⟺
ISO 13920-A/E
Ind | Modification | Ref.: -
Origin
- | Replacement for | - | Replaced by | -

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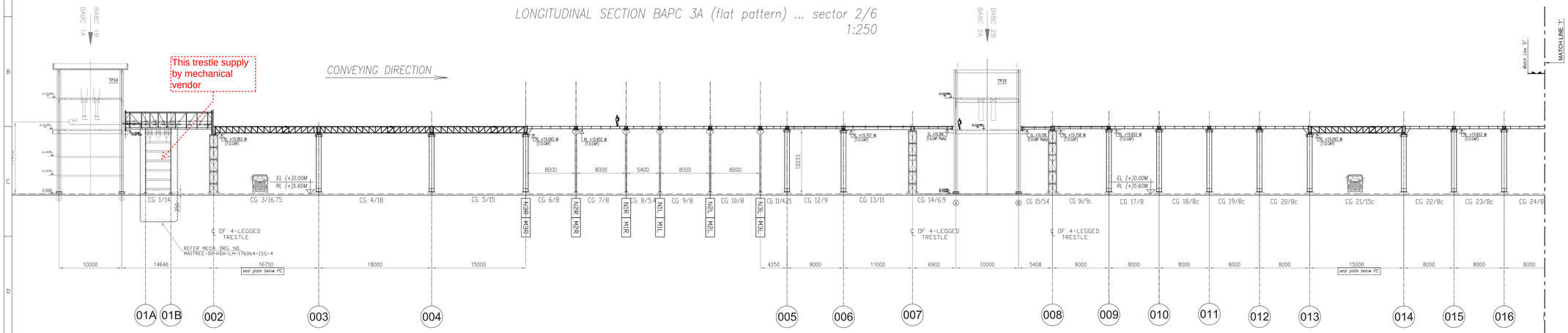
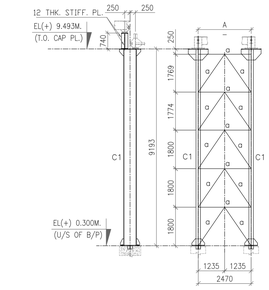
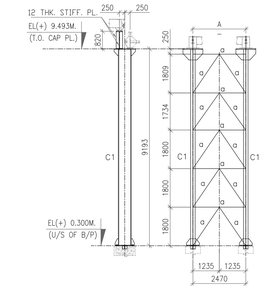
A0 [1189 x 841]

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 2/6
1:250



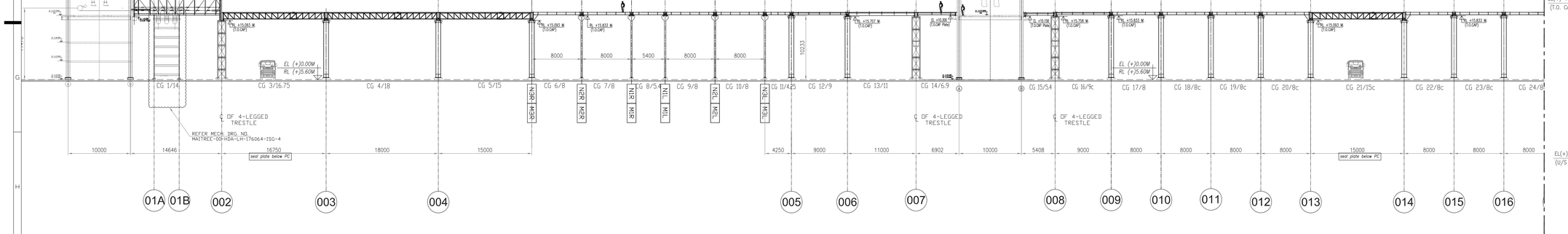


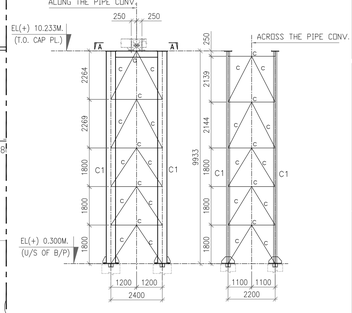
DETAIL OF TRESTLE MKD. TR-13
TYPE-4



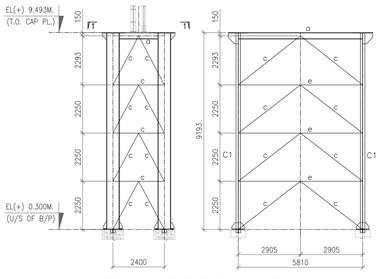
DETAIL OF TRESTLE MKD. TR-14
TYPE-4

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 2/6
1:250

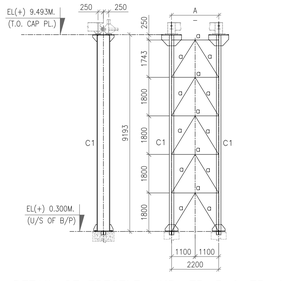




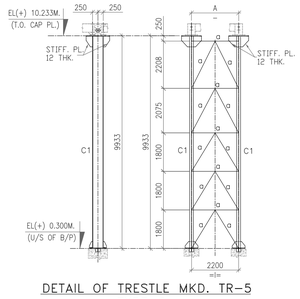
DETAIL OF TRESTLE MKD. TR-19
TYPE-1



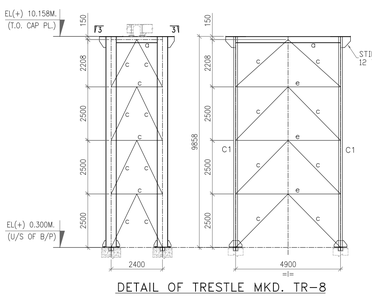
DETAIL OF TRESTLE MKD. TR-2



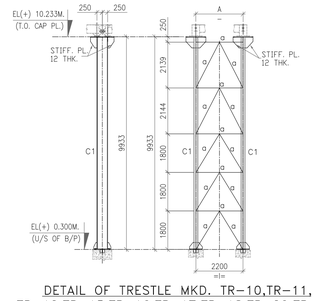
DETAIL OF TRESTLE MKD. TR-3 & TR-4
TYPE-4



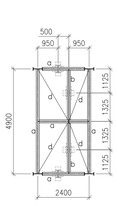
DETAIL OF TRESTLE MKD. TR-5
TYPE-2



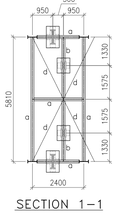
DETAIL OF TRESTLE MKD. TR-8



DETAIL OF TRESTLE MKD. TR-10,TR-11,
TR-12,TR-15,TR-16,TR-17,TR-18,TR-20,TR-21,
TR-22,TR-23,TR-24,TR-25,TR-26,TR-27 & TR-28
TYPE-2



SECTION 3-3



SECTION 1-1

TABLE OF MEMBER FOR TRESTLE MKD. TR-2, 8 & 108

MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 450	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 90x90x8	
e	□	ISMC 100	

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1	13.09.19	PACK	R.K.P	SCC	REVISED AS PER MECH. GA

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS
SHEET 3 OF

TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES	BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068	
SYSTEM	ANNEX.: –	DRAWING NO.: S18-45068-BAPC 3A/3B-LD-001	REV.: 1
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-1		

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	30/01/2019	Issued:	Tech.Proj.: -
Mallick	30/01/2019	Gen.	Contact: %SACHBE%

Customer: BHEL
Designation: STRUCTURAL GA OF BAPC 3A-3B
BAPC 3A-3B
Drawing No.: S18_45068_BAPC 3A/B_LD

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Scale: mls
Sheet/of 3 / 9

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

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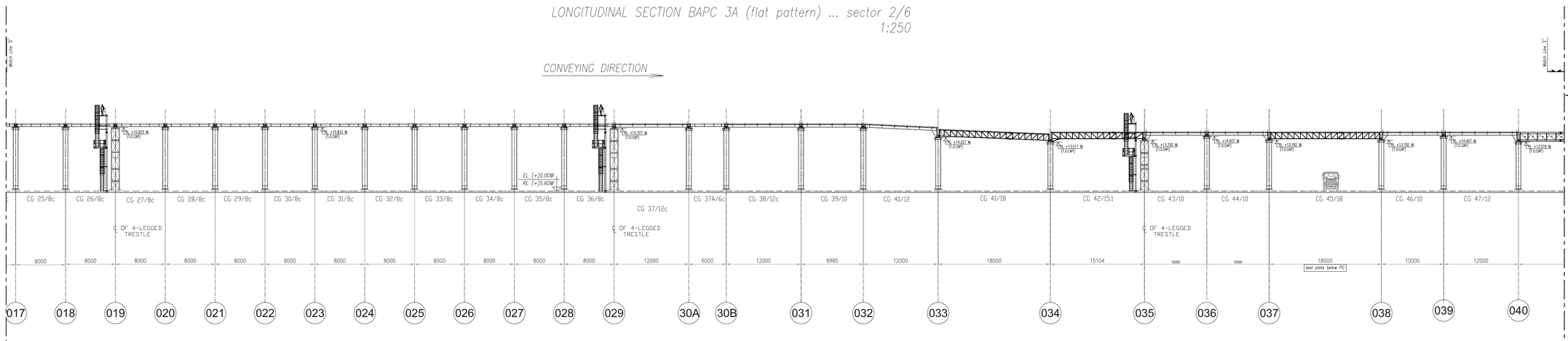
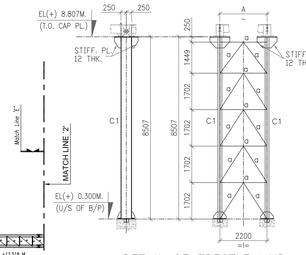
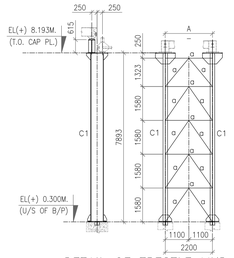
A0 [1189 x 841]

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 2/6
1:250



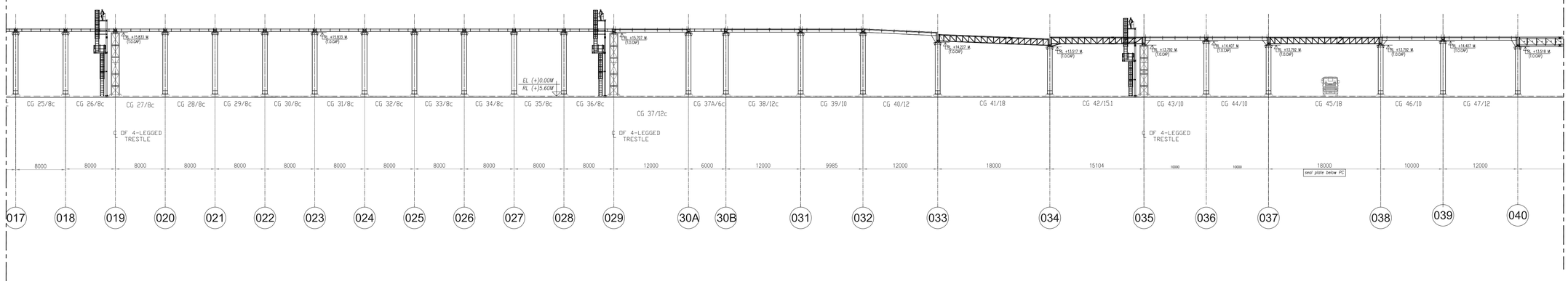


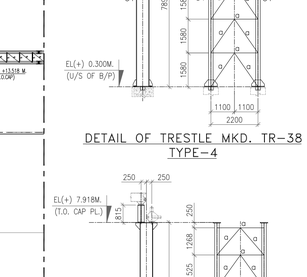
DETAIL OF TRESTLE MKD. TR-36 & TR-39
TYPE-2



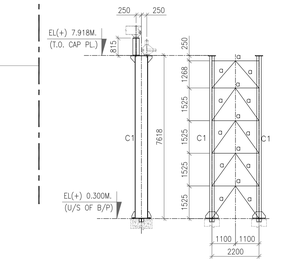
DETAIL OF TRESTLE MKD. TR-37,TR-76 & TR-92
TYPE-4

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 2/6
1:250

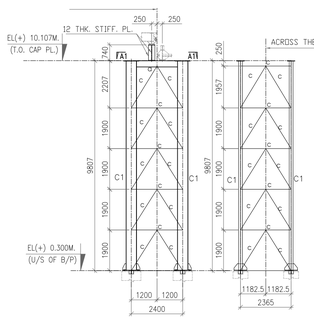




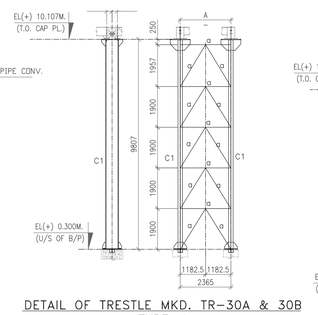
DETAIL OF TRESTLE MKD. TR-38
TYPE-4



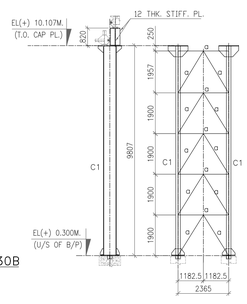
DETAIL OF TRESTLE MKD. TR-40



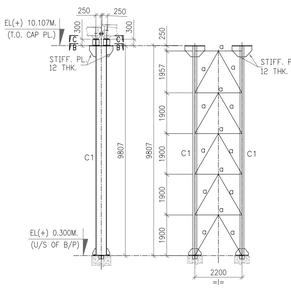
DETAIL OF TRESTLE MKD. TR-29
TYPE-3



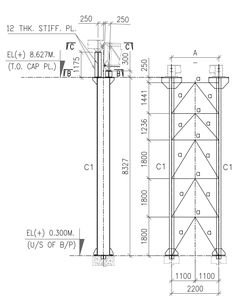
DETAIL OF TRESTLE MKD. TR-30A & 30B
TYPE-4



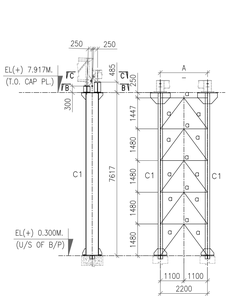
DETAIL OF TRESTLE MKD. TR-31
TYPE-4



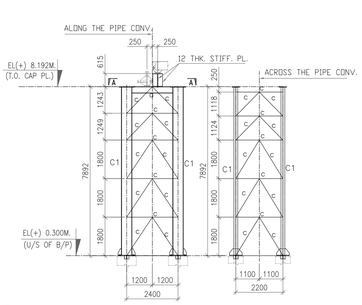
DETAIL OF TRESTLE MKD. TR-32
TYPE-2



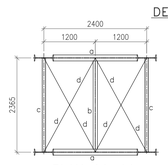
DETAIL OF TRESTLE MKD. TR-33
TYPE-4



DETAIL OF TRESTLE MKD. TR-34
TYPE-4



DETAIL OF TRESTLE MKD. TR-35
TYPE-3



PLAN A1-A1

4					
3					
2					
1	13.09.19	PKO	HER	K.P.C	SCC
REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

REVISED AS PER MECH. CA

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS
SHEET 4 OF

TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-1774.30-ISG-1

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068
DRAWING NO.: S18-45068-BAPC 3A/3B-LD-001
REV.: 1

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Basu	30/01/2019	Issued	Tech.Pos.: -
Mallick	30/01/2019	Gepr.	Contact: %SACHBE%

Customer: BHEL
Designation: STRUCTURAL GA OF BAPC 3A-3B
BAPC 3A-3B
Drawing No.: S18_45068_BAPC 3A/B_LD

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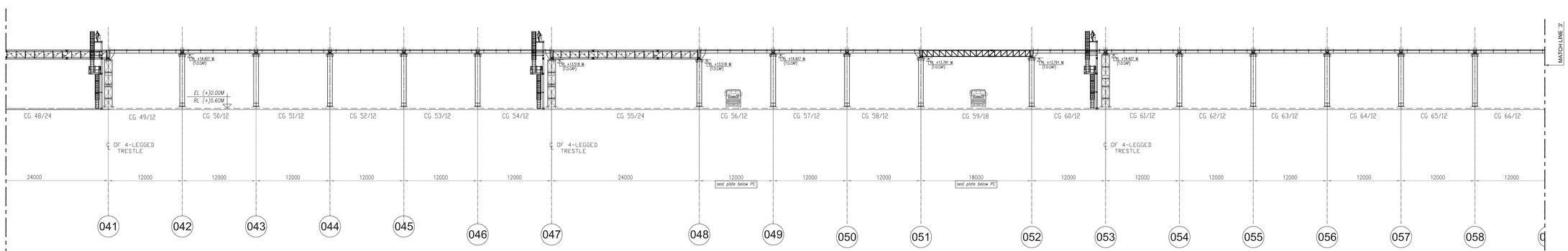
ISO 14405 Ⓓ ISO 13920-A/E
Ind. Modification Ref.: -
Origin
- Replacement for - Replaced by -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

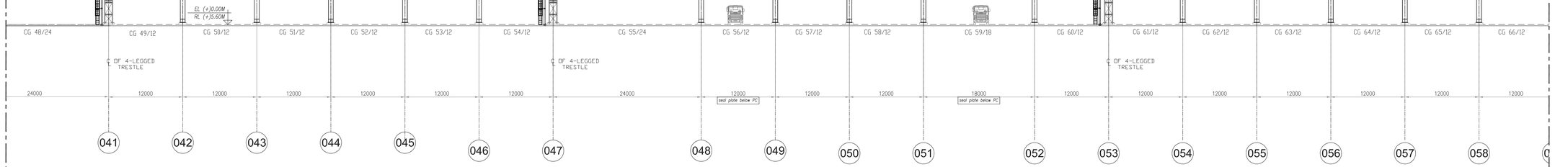
LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 3/6
1:250

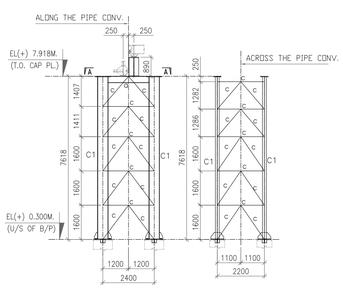
CONVEYING DIRECTION



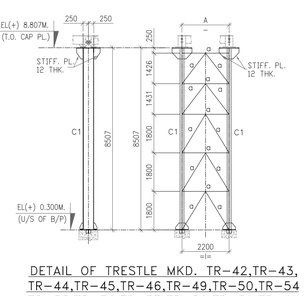
LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 3/6
1:250

CONVEYING DIRECTION

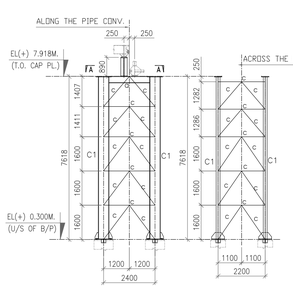




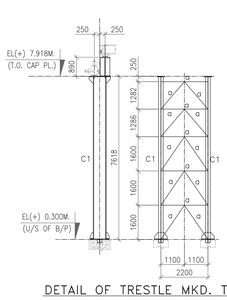
DETAIL OF TRESTLE MKD. TR-41



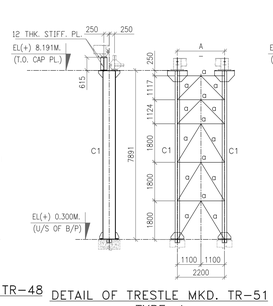
DETAIL OF TRESTLE MKD. TR-42,TR-43, TR-44,TR-45,TR-46,TR-49,TR-50,TR-54 TR-55,TR-56,TR-57,TR-58,TR-59,TR-61 TR-62,TR-63,TR-64,TR-69,TR-70,TR-71 TR-72,TR-73,TR-75,TR-78,TR-79,TR-80 TR-84,TR-85,TR-86,TR-87,TR-90 & TR-91
TYPE-2



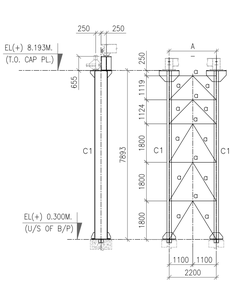
DETAIL OF TRESTLE MKD. TR-47



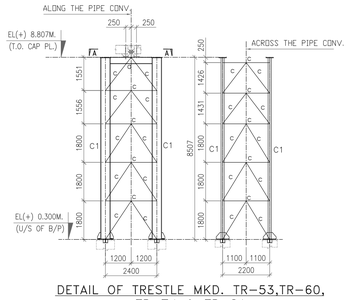
DETAIL OF TRESTLE MKD. TR-48



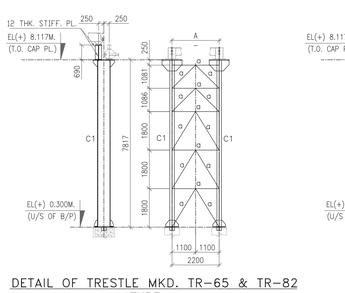
DETAIL OF TRESTLE MKD. TR-51
TYPE-4



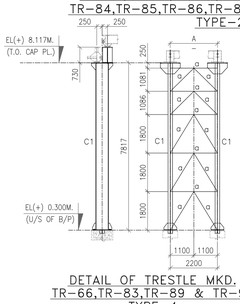
DETAIL OF TRESTLE MKD. TR-52 & TR-77
TYPE-4



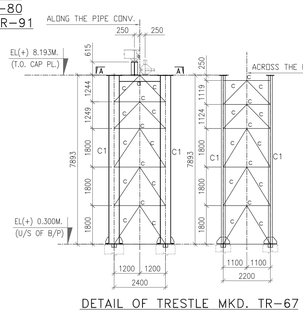
DETAIL OF TRESTLE MKD. TR-53,TR-60, TR-74 & TR-81
TYPE-1



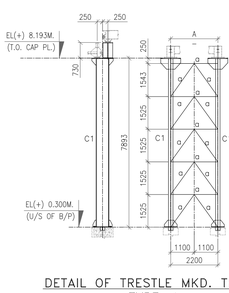
DETAIL OF TRESTLE MKD. TR-65 & TR-82
TYPE-4



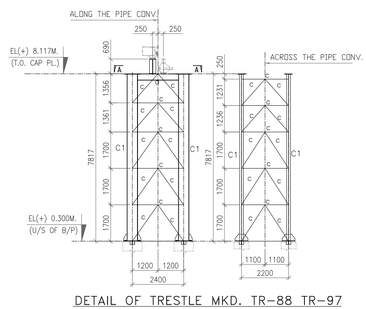
DETAIL OF TRESTLE MKD. TR-66,TR-83,TR-89 & TR-98
TYPE-4



DETAIL OF TRESTLE MKD. TR-67
TYPE-3



DETAIL OF TRESTLE MKD. TR-68
TYPE-4



DETAIL OF TRESTLE MKD. TR-88 TR-97
TYPE-3

4					
3					
2					
1	13.09.19	PAO	R.K.P.G	SCC	REVISED AS PER MECH. CA
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS
SHEET 5 OF

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702 / STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY	SIZE– A0 [1189 x 841] / PROJECT NO.: 618–450068
SYSTEM	ANNEX.: – / DRAWING NO.: S18-45068-BAPC 3A/3B-LD-001 / REV.: 1
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-1774.30-ISG-1

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	30/01/2019	Issued	Tech.Pos.:	-
Malks	30/01/2019	Gep.	Contact:	%SACHBE%

Customer: BHEL

Designation: STRUCTURAL GA OF BAPC 3A-3B / BAPC 3A-3B

Drawing No.: S18_45068_BAPC 3A/B_LD

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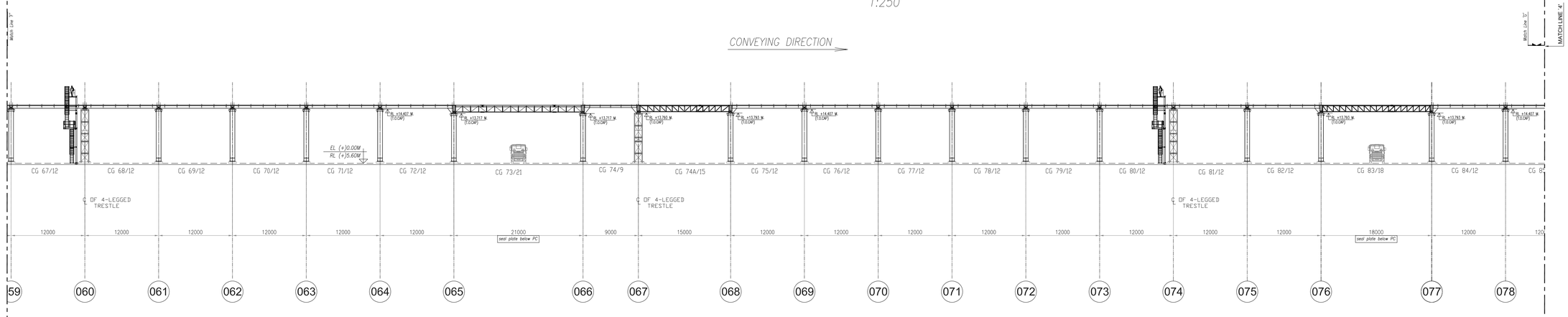
Scale: nts
Sheet of 5 / 9

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

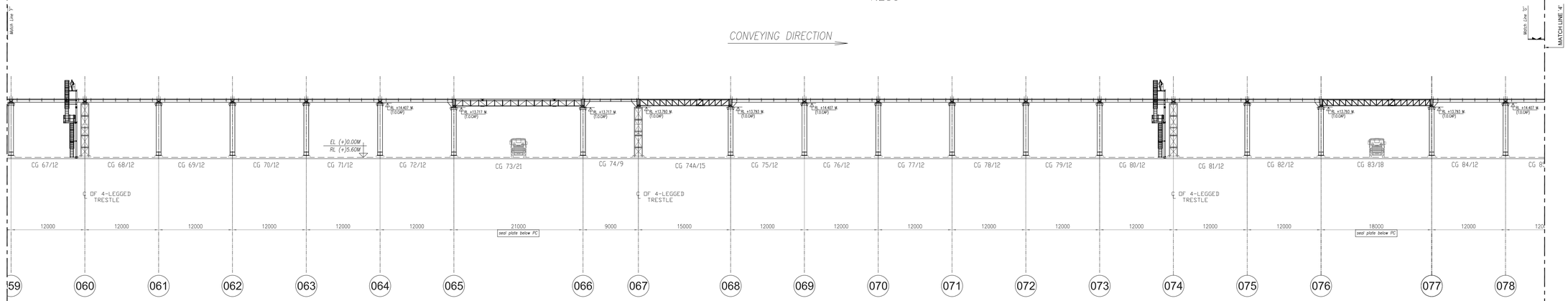
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

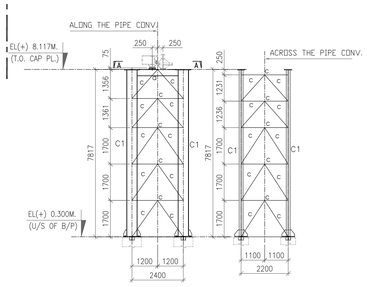
A0 [1189 x 841]

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 4/6
1:250

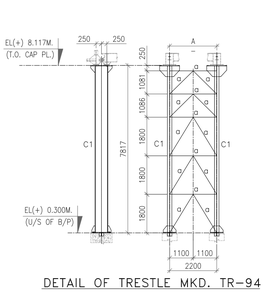


LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 4/6
1:250

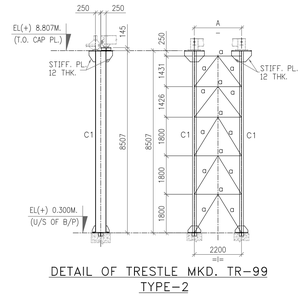




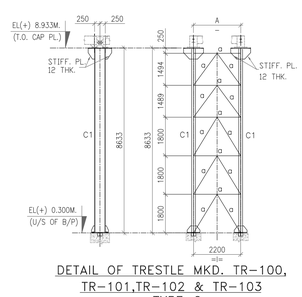
DETAIL OF TRESTLE MKD. TR-93



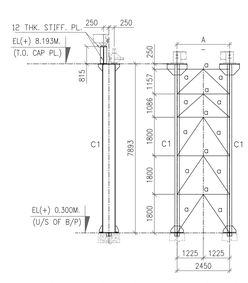
DETAIL OF TRESTLE MKD. TR-94



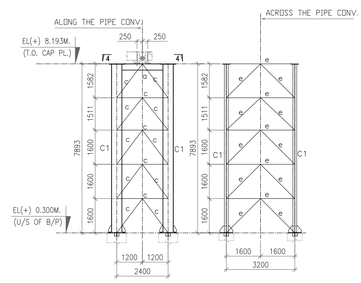
DETAIL OF TRESTLE MKD. TR-99
TYPE-2



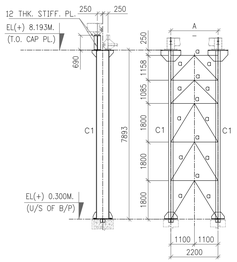
DETAIL OF TRESTLE MKD. TR-100,
TR-101,TR-102 & TR-103
TYPE-2



DETAIL OF TRESTLE MKD. TR-104
TYPE-4



DETAIL OF TRESTLE MKD. TR-105



DETAIL OF TRESTLE MKD. TR-107
TYPE-4

TABLE OF MEMBER FOR TRESTLE TYPE-1			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 450	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 75x75x6	

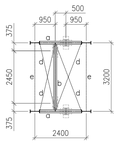
TABLE OF MEMBER FOR TRESTLE TYPE-2			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	□	ISMC 100	

TABLE OF MEMBER FOR TRESTLE TYPE-4			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 600	
a	□	ISMC 125	

TABLE OF MEMBER FOR TRESTLE TYPE-3			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 75x75x6	

TABLE OF MEMBER FOR TRESTLE TR-40&48			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 600	
a	□	ISMC 125	

TABLE OF MEMBER FOR TRESTLE TR-94 & 95			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 600	
a	□	ISMC 150	



SECTION 4-4

TABLE OF MEMBER FOR TRESTLE TR-41&47			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 75x75x6	

TABLE OF MEMBER FOR TRESTLE TR-93			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 75x75x6	

TABLE OF MEMBER FOR TRESTLE MKD. TR-105 & 106			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 500	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 90x90x8	
e	□	ISMC 100	

BEUMERGROUP

Name	Date	%AT%	Order.No.: 618-450068
Bau	30/01/2019	Issued:	Tech.Pos.: -
Mat&s	30/01/2019	Gep.	Contact: %SACHBE%

Customer: BHEL
Designation: STRUCTURAL GA OF BAPC 3A-3B
BAPC 3A-3B
Drawing No.: S18_45068_BAPC 3A/B_LD
Scale: nts
Sheet/of 6 / 9

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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
4					
3					
2					
1	13.09.19	PADH	K.K.P.O	SCC	REVISED AS PER MECH. GA

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinenfabrik,Germany
SCALE: NTS
SHEET: 6 OF
TITLE: STRUCTURAL GA OF BAPC 3A–3B

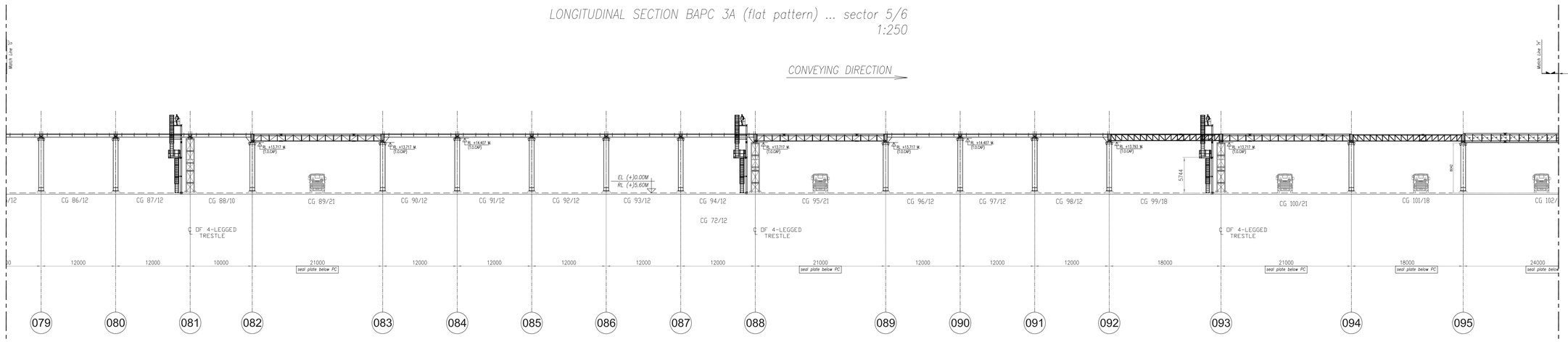
SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-1

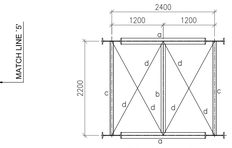
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: S18–45068–BAPC 3A/3B-LD-001 REV.: 1

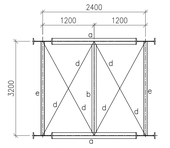
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

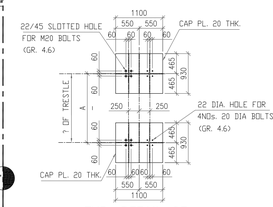
A0 [1189 x 841]

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 5/6
1:250

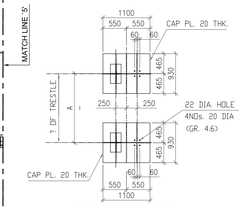




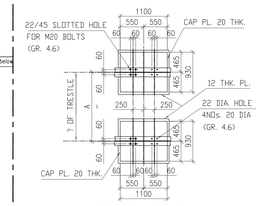




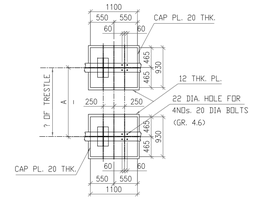
TYP. DETAIL OF CAP PLATE TYPE–A
(CAP PLATE DISTANCE REF. TABLE)



TYP. DETAIL OF CAP PLATE TYPE–B
(CAP PLATE DISTANCE REF. TABLE)



TYP. DETAIL OF CAP PLATE TYPE–C
(CAP PLATE DISTANCE REF. TABLE)



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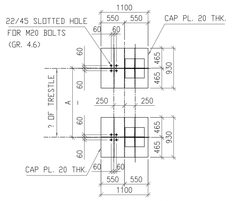

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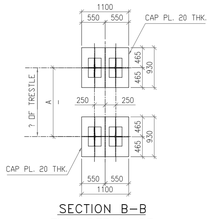
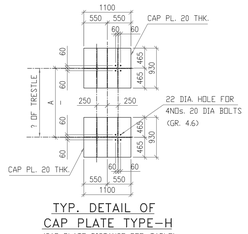
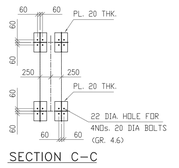
(CAP PLATE DISTANCE REF. TABLE)



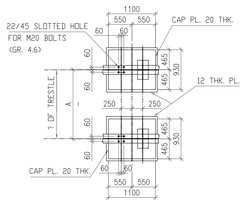
SECTION B–B
TYP. DETAIL OF CAP PLATE TYPE–F
(CAP PLATE DISTANCE REF. TABLE)



TYP. DETAIL OF CAP PLATE TYPE–H
(CAP PLATE DISTANCE REF. TABLE)



SECTION C–C



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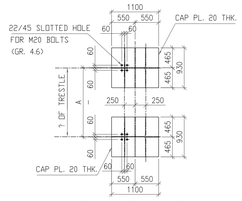
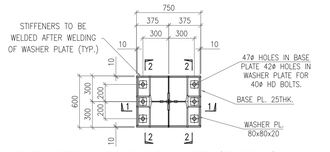
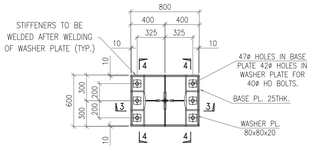


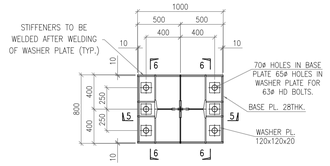
TYP. DETAIL OF CAP PLATE TYPE–J
(CAP PLATE DISTANCE REF. TABLE)



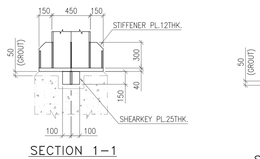
TYP. DETAIL OF BASE PLATE (TYPE–1)
AND TRESTLE MKD. TR–2, 7, 8 & 108



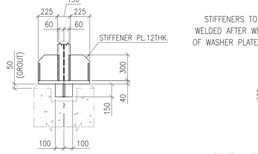
TYP. DETAIL OF BASE PLATE (TYPE–2 & 3)
ND TRESTLE MKD. TR–41, 47, 93, 105 & 106



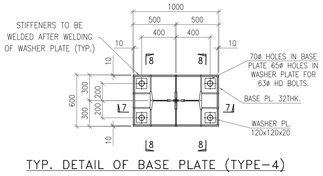
TYP. DETAIL OF BASE PLATE FOR
TRESTLE MKD. TR–94 & 95



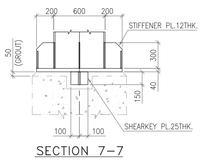
SECTION 1–1



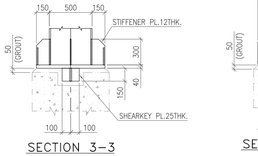
SECTION 2–2



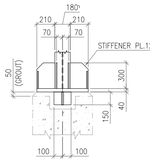
TYP. DETAIL OF BASE PLATE (TYPE–4)
AND TRESTLE MKD. TR–40 & 48



SECTION 7–7



SECTION 3–3



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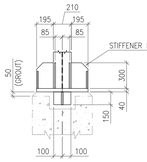
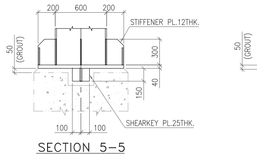
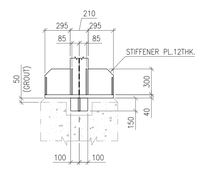


SECTION 8–8



SECTION 5–5



SECTION 6–6

4							
3							
2							
1	13.09.19	PADH	R.K.PO	SCC	REVISED AS PER MEDH. GA		
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinenfabrik,Germany
SCALE: NTS
TITLE: STRUCTURAL GA OF BAPC 3A–3B
SHEET 7 OF

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–1

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.: S18–45068–BAPC 3A/3B–LD–001
REV.: 1

BEUMERGROUP

Name	Date	%ALT%	Order.No.:	618-450068	
Bau	30/01/2019	Issued	Tech.Proj.:	-	
Maßstab	30/01/2019	Gep.	Contact:	%SACHBE%	
-		E	-		
-		D	-		
-		C	-		
-		B	-		
-		A	-		

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

Customer: BHEL
Designation: STRUCTURAL GA OF BAPC 3A-3B
BAPC 3A-3B
Drawing No.: S18_45068_BAPC 3A/B_LD
Scale: mls
Sheet/of 7 / 9

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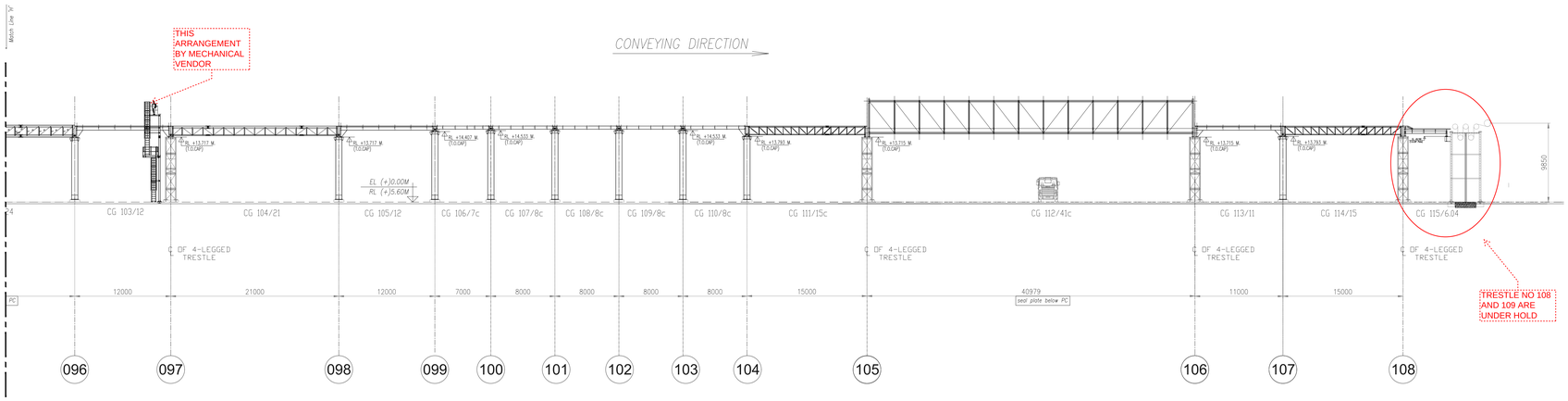
Replacement for: - Replaced by: -

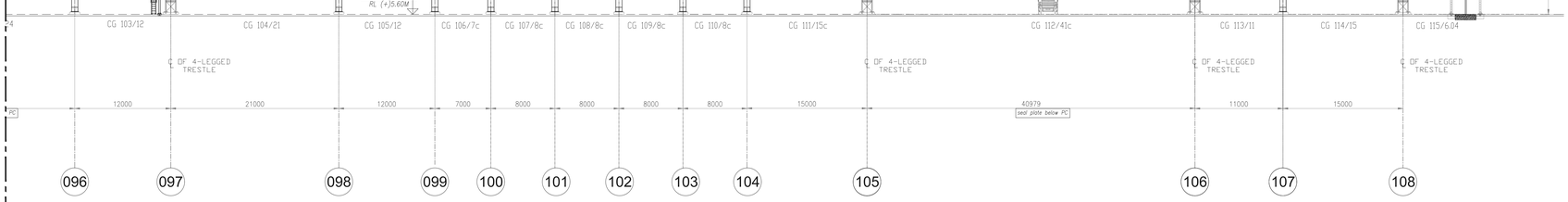
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 6/6
1:250



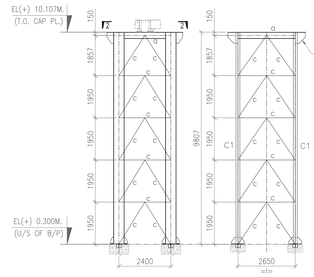
LONGITUDINAL SECTION BAPC 3A (flat pattern) ... sector 6/6
1:250



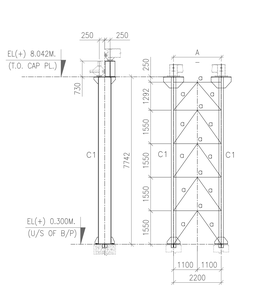
BASIC DIMENSION FOR TRESTLE CAP PALTE			
SL.NO	TRESTLE MKD.	CAP PL. TYPE	DIMENSIONS (mm.) A
1			
2	TR–2	–	–
3	TR–3	A	2200
4	TR–4	A	2200
5	TR–5	A	2200
6	TR–6	A	2200
7	TR–7	–	–
8	TR–8	–	–
9	TR–9	A	2650
10	TR–10	A	2265
11	TR–11	A	2265
12	TR–12	A	2265
13	TR–13	B	2470
14	TR–14	B	2470
15	TR–15	A	2270
16	TR–16	A	2265
17	TR–17	A	2265
18	TR–18	A	2265
19	TR–19	C	2265
20	TR–20	A	2265
21	TR–21	A	2265
22	TR–22	A	2265
23	TR–23	A	2265
24	TR–24	A	2265
25	TR–25	A	2265
26	TR–26	A	2265
27	TR–27	A	2265
28	TR–28	A	2265
29	TR–29	D	2365
30	TR–30A&B	A	2365
31	TR–31	E	2365
32	TR–32	F	2200
33	TR–33	F	2200
34	TR–34	F	2200
35	TR–35	G	2200
36	TR–36	A	2200
37	TR–37	B	2200
38	TR–38	E	2200
39	TR–39	A	2200
40	TR–40	B	2200
41	TR–41	G	2200
42	TR–42	A	2200
43	TR–43	A	2200
44	TR–44	A	2200
45	TR–45	A	2200

BASIC DIMENSION FOR TRESTLE CAP PALTE			
SL.NO	TRESTLE MKD.	CAP PL. TYPE	DIMENSIONS (mm.) A
46	TR–46	A	2200
47	TR–47	D	2200
48	TR–48	E	2200
49	TR–49	A	2200
50	TR–50	A	2200
51	TR–51	B	2200
52	TR–52	E	2200
53	TR–53	C	2200
54	TR–54	A	2200
55	TR–55	A	2200
56	TR–56	A	2200
57	TR–57	A	2200
58	TR–58	A	2200
59	TR–59	A	2200
60	TR–60	C	2200
61	TR–61	A	2200
62	TR–62	A	2200
63	TR–63	A	2200
64	TR–64	A	2200
65	TR–65	B	2200
66	TR–66	E	2200
67	TR–67	D	2200
68	TR–68	E	2200
69	TR–69	A	2200
70	TR–70	A	2200
71	TR–71	A	2200
72	TR–72	A	2200
73	TR–73	A	2200
74	TR–74	C	2200
75	TR–75	A	2200
76	TR–76	B	2200
77	TR–77	E	2200
78	TR–78	A	2200
79	TR–79	A	2200
80	TR–80	A	2200
81	TR–81	C	2200
82	TR–82	B	2200
83	TR–83	E	2200
84	TR–84	A	2200
85	TR–85	A	2200
86	TR–86	A	2200
87	TR–87	A	2200
88	TR–88	D	2200
89	TR–89	E	2200
90	TR–90	A	2200

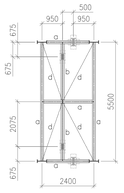
BASIC DIMENSION FOR TRESTLE CAP PALTE			
SL.NO	TRESTLE MKD.	CAP PL. TYPE	DIMENSIONS (mm.) A
91	TR–91	A	2200
92	TR–92	B	2200
93	TR–93	D	2200
94	TR–94	A	2200
95	TR–95	A	2200
96	TR–96	E	2200
97	TR–97	D	2200
98	TR–98	E	2200
99	TR–99	E	2235
100	TR–100	A	2270
101	TR–101	A	2270
102	TR–102	A	2270
103	TR–103	A	2270
104	TR–104	B	2450
105	TR–105	–	–
106	TR–106	–	–
107	TR–107	E	4000
108	TR–108	–	–



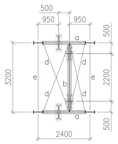
DETAIL OF TRESTLE MKD. TR–7



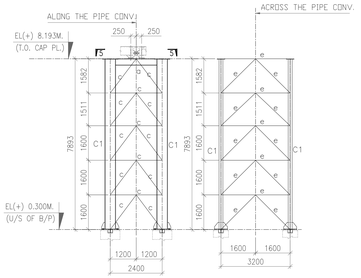
DETAIL OF TRESTLE MKD. TR–96 TYPE–4



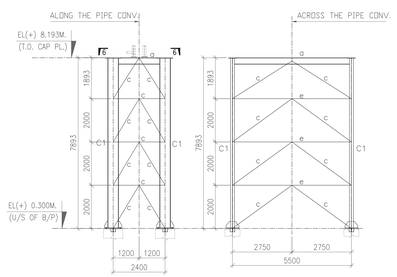
SECTION 6–6



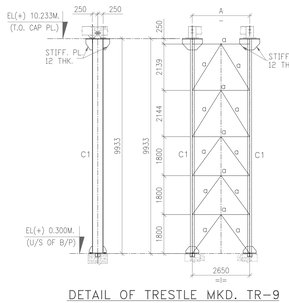
SECTION 5–5



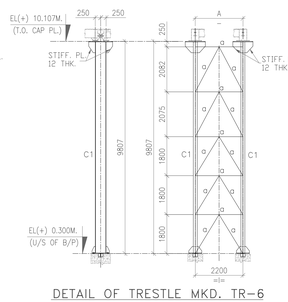
DETAIL OF TRESTLE MKD. TR–106



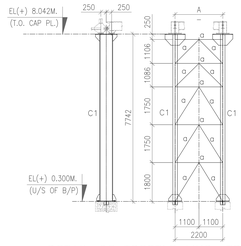
DETAIL OF TRESTLE MKD. TR–108



DETAIL OF TRESTLE MKD. TR–9 TYPE–2

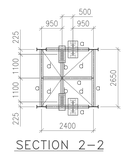


DETAIL OF TRESTLE MKD. TR–6 TYPE–2



DETAIL OF TRESTLE MKD. TR–95

TABLE OF MEMBER FOR TRESTLE MKD. TR–7			
MARK.	PROFILE	SECTION	REMARKS
C1	I	ISMB 450	
a	I	ISMB 300	
b	I	ISMB 200	
c	□	ISMC 75	
d	⊤	2/ISA 90×90×8	



SECTION 2–2

BEUMERGROUP					Customer: BHEL				
Name	Date	%AT%	Order.No.:	618-450068	Designation: STRUCTURAL GA OF BAPC 3A-3B				
Basu	30/01/2019	Issued	Tech.Pos.:	-	BAPC 3A-3B				
Mallick	30/01/2019	Gepr.	Contact:	%SACHBE%	Drawing No.: S18_45068_BAPC 3A/B_LD				
-		E		-					
-		D		-					
-		C		-	This document and all data contained herein are confidential and exclusive property of the BEUMER Group. Any reproduction, transmission, modification, etc. or any kind of supply to others is strictly forbidden without express prior written consent of the BEUMER Group. Scale: nts				
-		B		-					
-		A		-					
ISO 14405		Ind	Modification	Ref.: -				Sheet/of: 8 / 9	
ISO 13920-A/E				Origin: -	Replacement for: -		Replaced by: -		

4				
3				
2				
1	13.09.19	PACH	RKJP	SCC
REV	DATE	DRN	CHD	APPD

REVISED AS PER MECH. GA

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET: 8 OF

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISC–1

STATUS OF DRG.: FOR APPROVAL

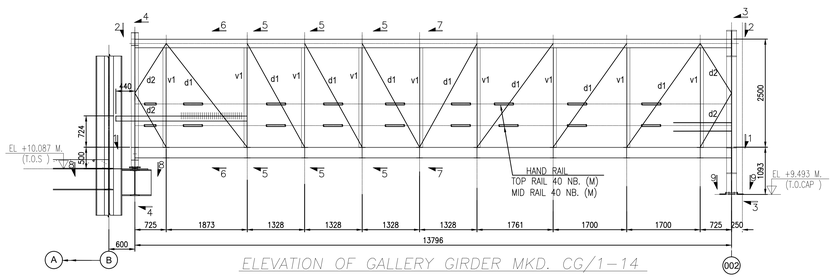
PROJECT NO.: 618–450068

DRAWING NO.: S18–45068–BAPC 3A/3B–LD–001

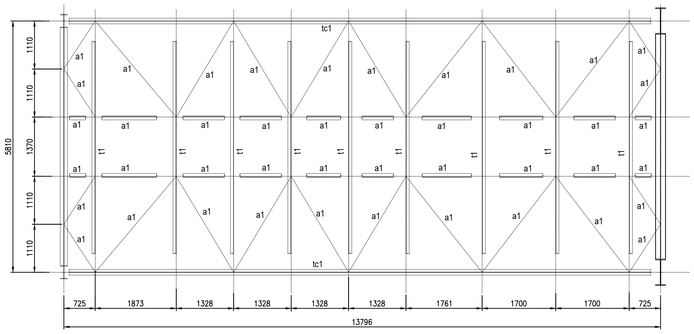
REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

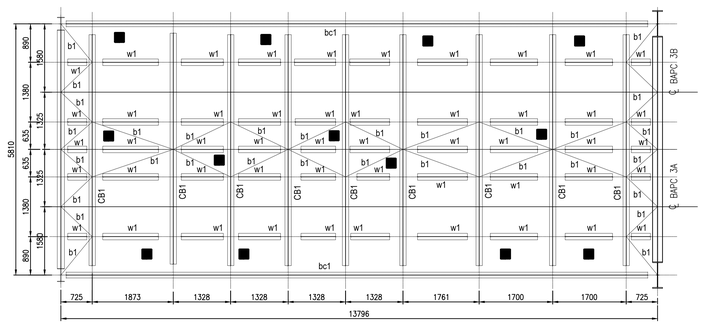
A0 [1189 x 841]



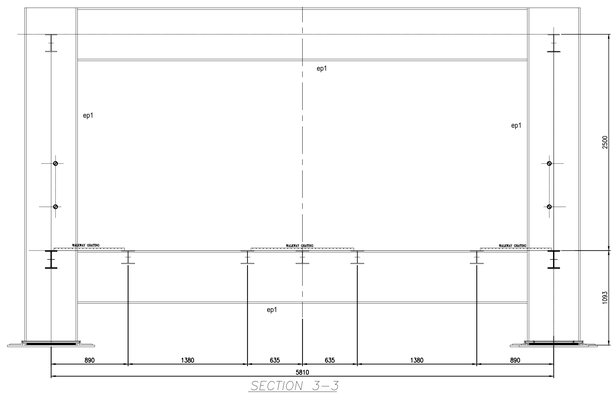
ELEVATION OF GALLERY GIRDER MKD. CG/1-14



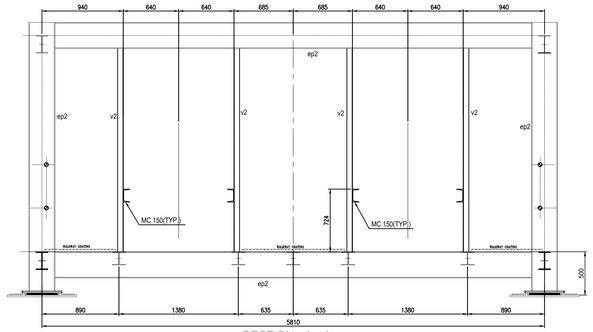
VIEW 2-2
PLAN AT TOP CHORD LEVEL



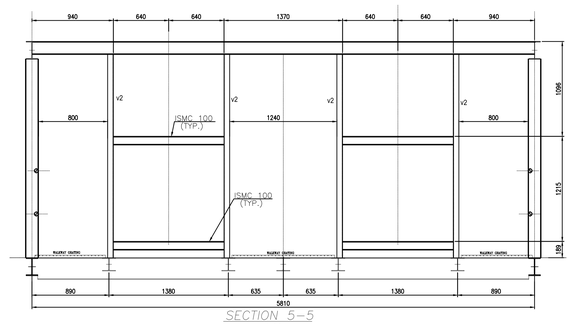
VIEW 1-1
PLAN AT BOTTOM CHORD LEVEL



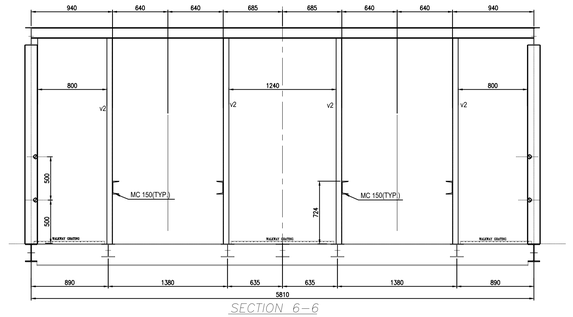
SECTION 3-3
1:20



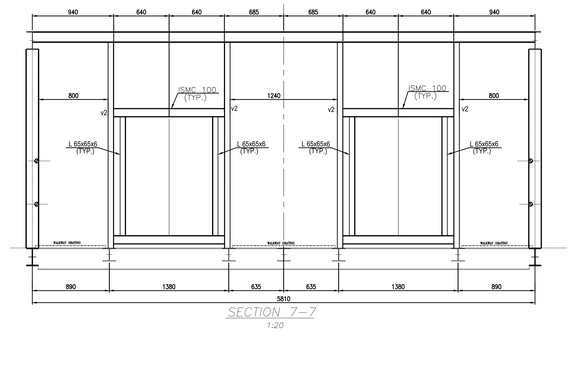
SECTION 4-4
1:20



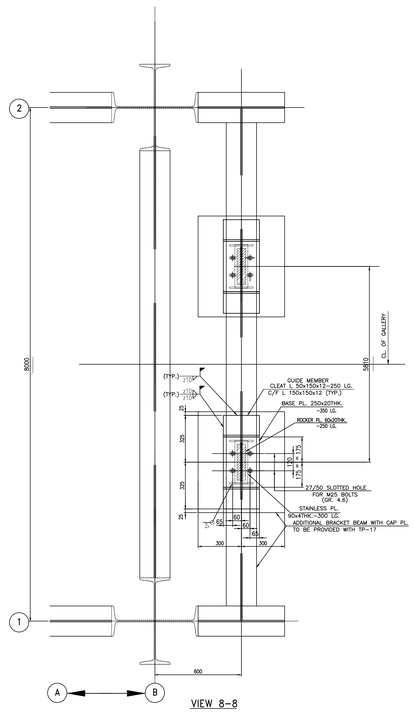
SECTION 5-5
1:20



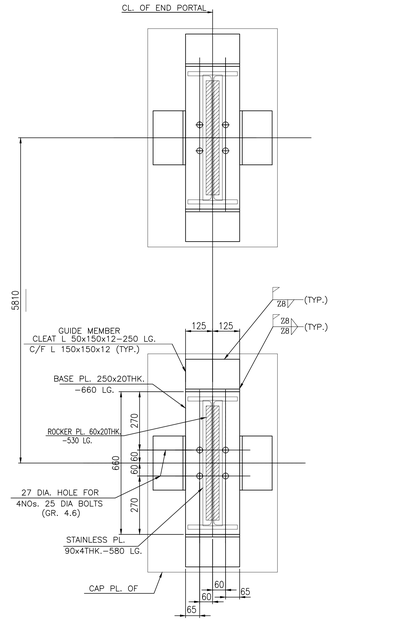
SECTION 6-6
1:20



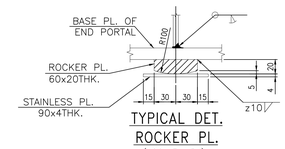
SECTION 7-7
1:20



VIEW 8-8



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



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

SCHEDULE OF MEMBERS FOR BAPC CG-1 GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 203x133x25	290
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	L 90x90x8	100
		t1	ISMC 150	35
2	BOTTOM CHORD	bc1	UB 203x133x30	310
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	80
	CROSS BEAM	CB1	UB 254x146x31	70
3	VERTICAL	v1	ISMC 150	170
		v2	ISMC 125	10
4	DIAGONAL	d1	2Ls 65x65x6	285
		d2	L 75x75x8	175
5	END PORTAL	ep1	UB 610x229x125	185
		ep2	UB 305x165x40	245
6	WALK WAY STRINGER	w1	UC 152x152x23	70
7	FLOOR PL.	FLOORING WITH 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

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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, BAGLADESH

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

	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET: 1
OF: 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES: BHEL JOB NO.: 702
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-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/08/2019	Dsgn	Contact:	%SACHBE%

		E	
		D	
		C	
		B	
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-A/E			

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-1/14 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_001_R1
Scale: nts
Sheet/of 1 / 1
Ref.: -
Origin: -
Replacement for: -
Replaced by: -

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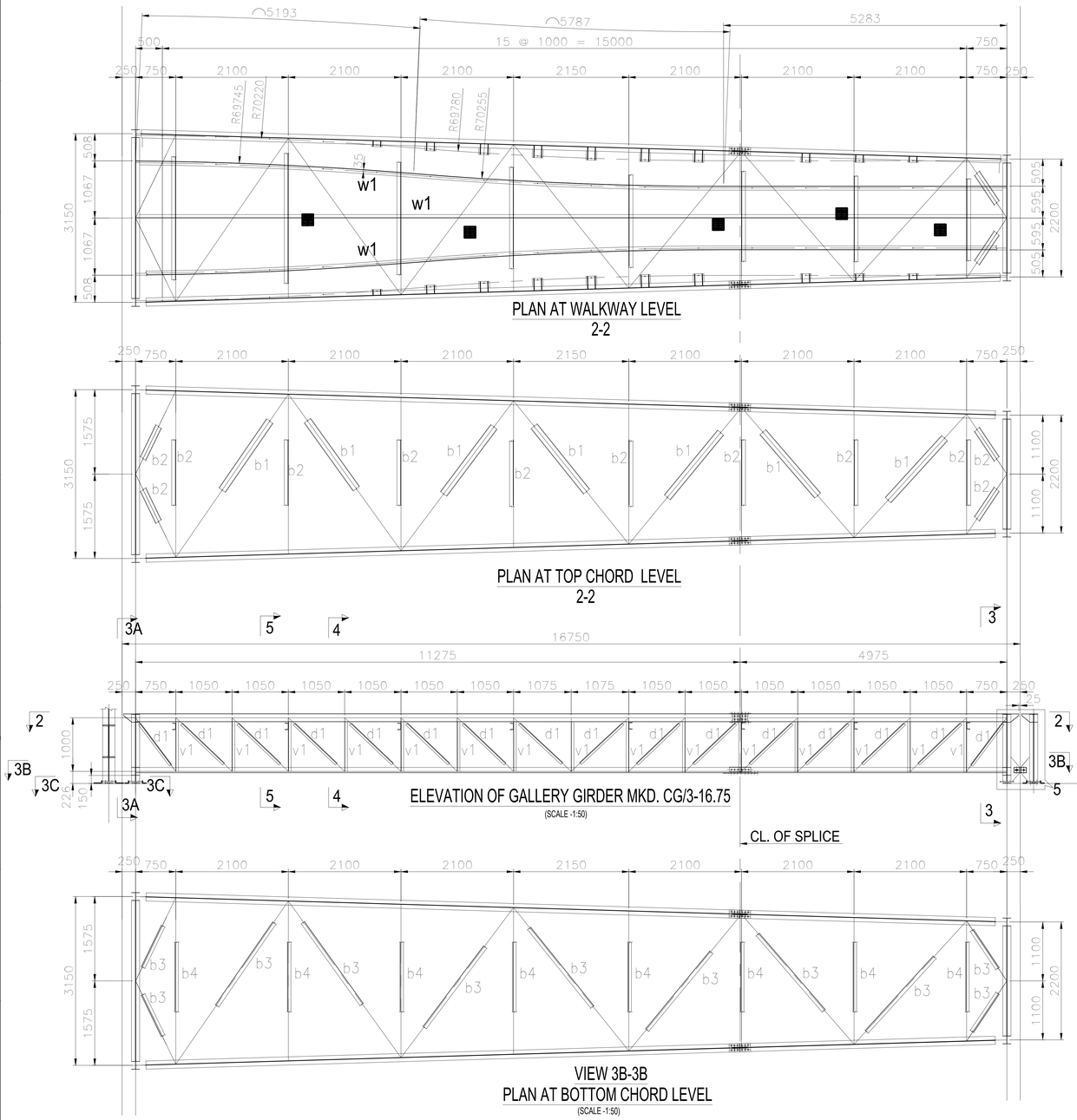
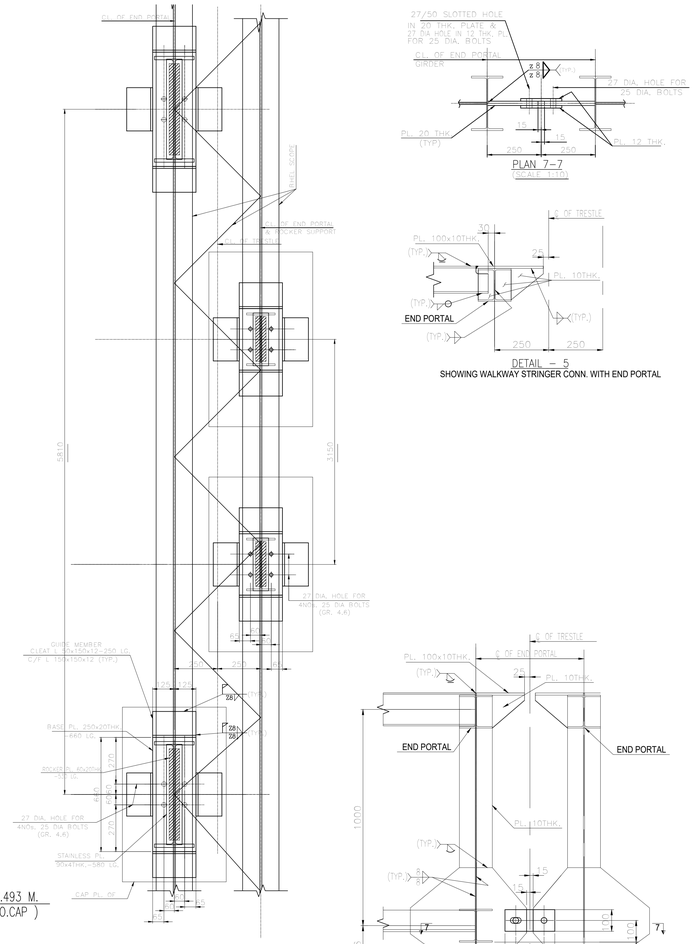
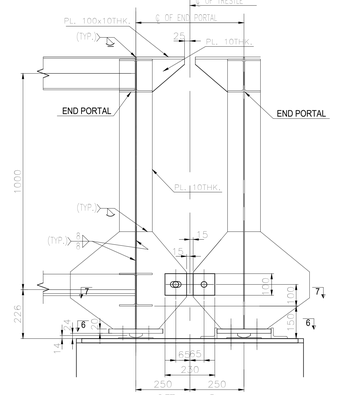
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

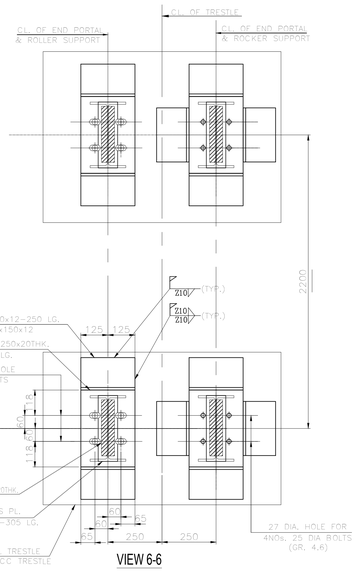
ISO [1189 x 841]

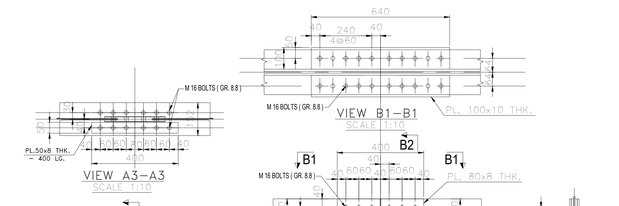


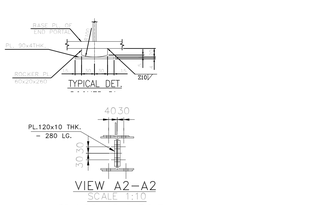


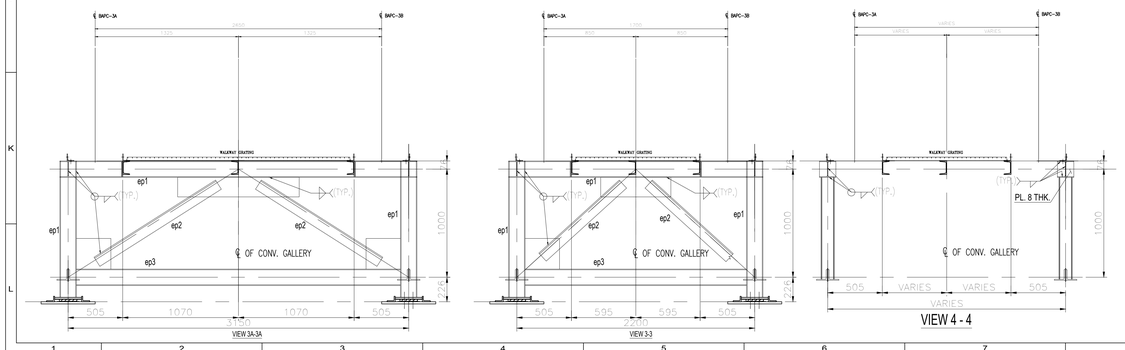
SCHEDULE OF MEMBERS FOR BAPC 16.75 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 75x75x8 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.		8 mm. THK.	
8	FLOOR PL.		FLOORING WITH GRATING.	

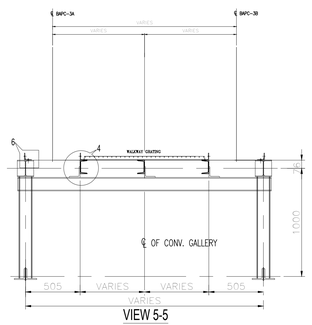












NOTES :

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. 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 CG-3/16.75	
Basu	04/05/2019		Issued	Tech.Pos. -		BAPC 3A/B	
Mallick	26/08/2019		Appr.	Contact: %SACHBE%	Drawing No.	S18_45068_BAPC 3AB_LD_002_R1	
			E	-			
			D	-			
			C	-			
			B	-	This document and all data contained herein are confidential and exclusive property of the BEUMER Group. Any reproduction, transmission, modification, etc. of this data is prohibited unless written consent is given. Refer to Protection Notice ISO 16016.	Scale	mm
Basu	07/08/2019	A	Changes as customer remarks			Sheet/of	1 / 1
ISO 14405		Ind	Modification	Ref. -			
ISO 13005-AE				Origin -	- Replacement for	- Replaced by	-

4			
3			
2			
1			Changes as per comments
REV	DATE	DRN/CHD/APPD	DESCRIPTION/NOTE

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

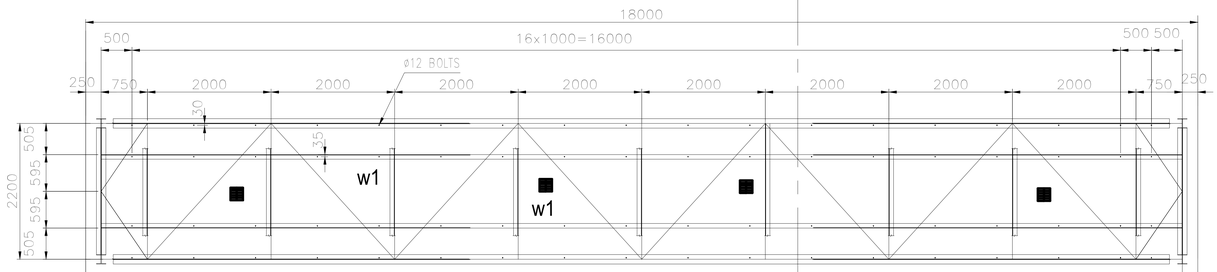
CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

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

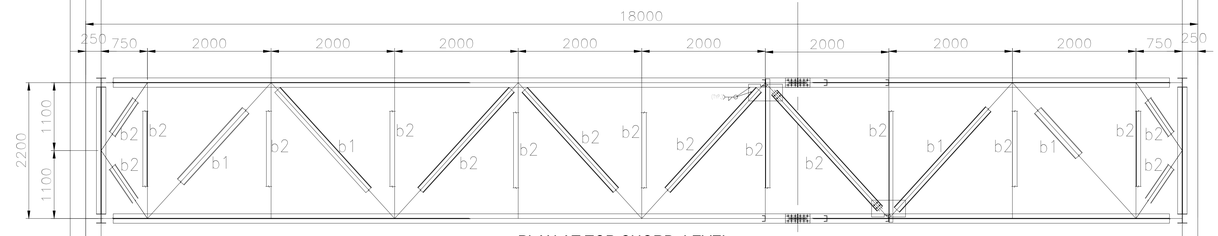
	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SHEET 1 OF 1
SUPERSEDES | BHEL JOB NO.: 702 | 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-UEU-LC-177430-ISC-0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM
A0 [1189 x 841]

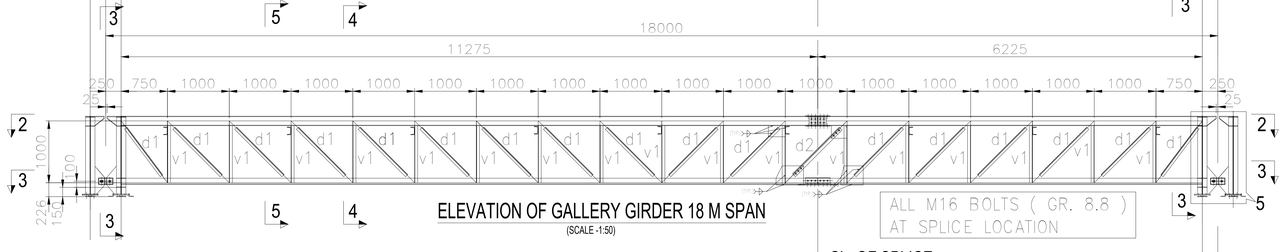


PLAN AT WALKWAY LEVEL
2-2



PLAN AT TOP CHORD LEVEL
2-2

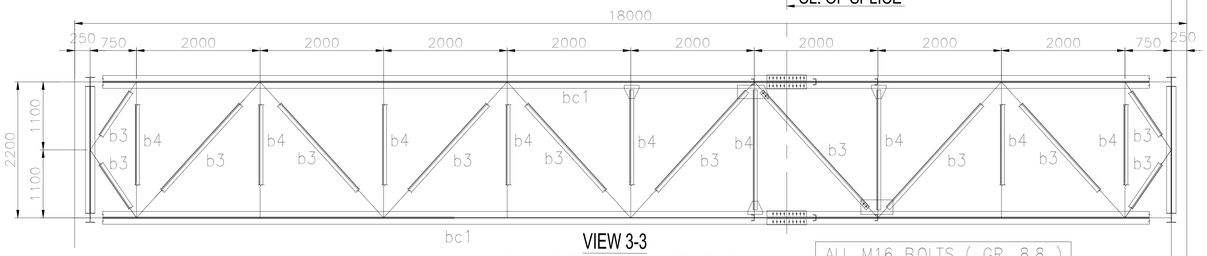
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



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

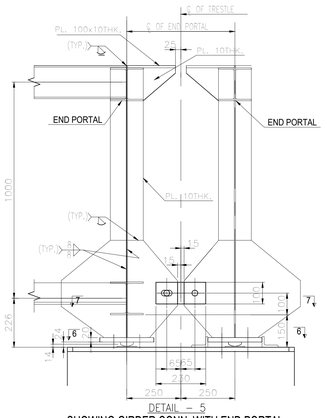
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

CL. OF SPLICE

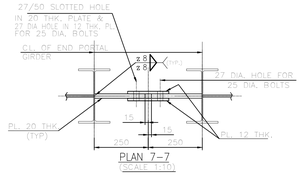


VIEW 3-3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

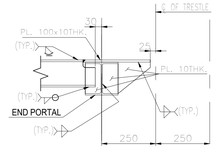
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



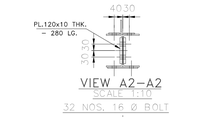
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



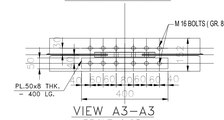
PLAN 7–7
(SCALE 1:10)



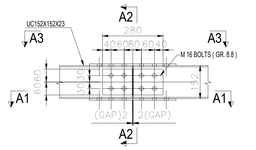
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



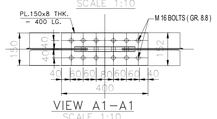
VIEW A2–A2
SCALE 1:10
32 NOS. 16 ϕ BOLT



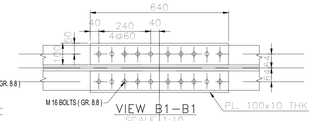
VIEW A3–A3
SCALE 1:10



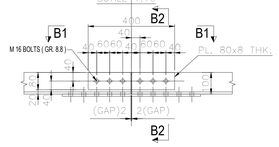
TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10



VIEW A1–A1
SCALE 1:10



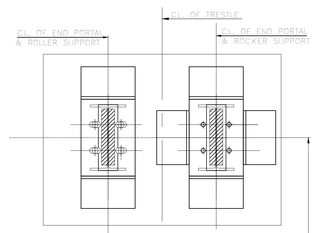
VIEW B1–B1
SCALE 1:10

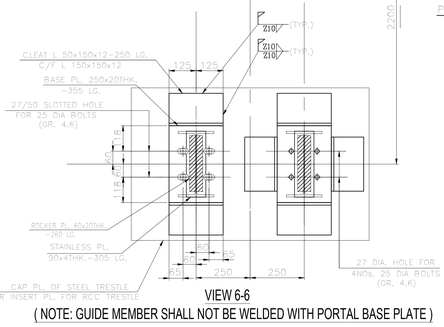


TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

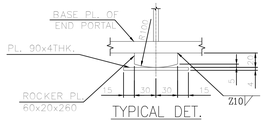
VIEW B2–B2
SCALE 1:10

SCHEDULE OF MEMBERS FOR BAPC 18 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 75x75x8 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	FLOORING WITH GRATING.		

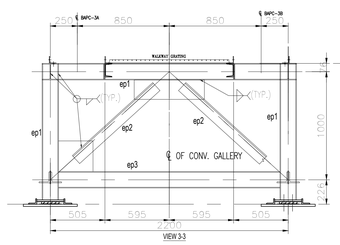




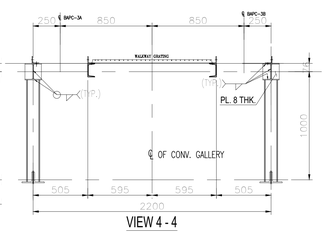
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



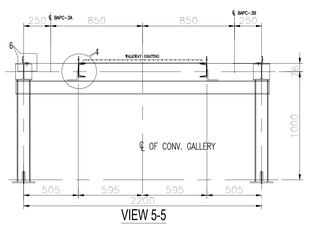
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



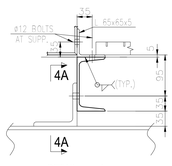
VIEW 3-3



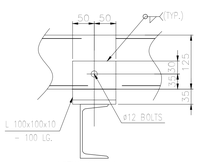
VIEW 4 - 4



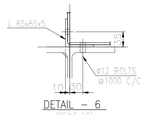
VIEW 5-5



DETAIL – 4



VIEW 4A–4A



DETAIL – 6

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

Name	Date	%AT%	Order.No.:	618-450068	
Basu	04/05/2019	Issued	Tech.Pos.:	-	
Mallick	09/08/2019	Gegr.	Contact:	%SACHBE%	
		E			
		D			
		C			
		B			
Basu	07/08/2019	A	Changes as customer remarks		
ISO 14405 ⊕		Ind	Modification	Ref.: -	
ISO 13920-A/E				Origin	-

BEUMERGROUP

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF 18M. STD. GAL BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_003_R1

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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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET: OF

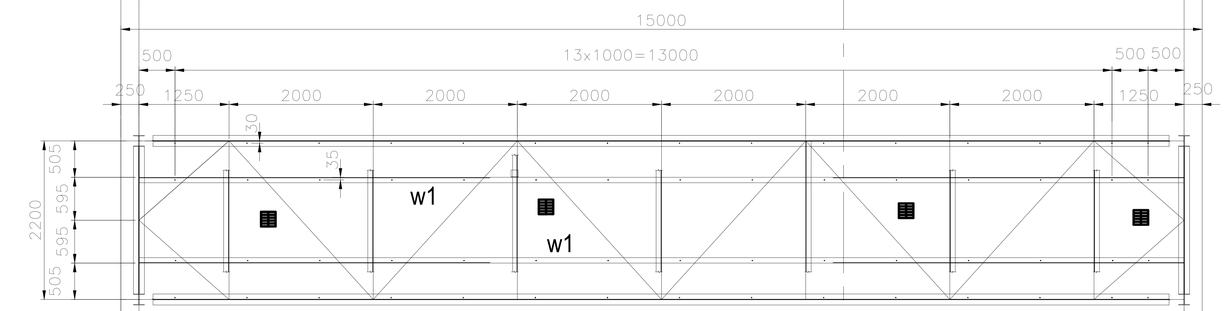
TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.:
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0

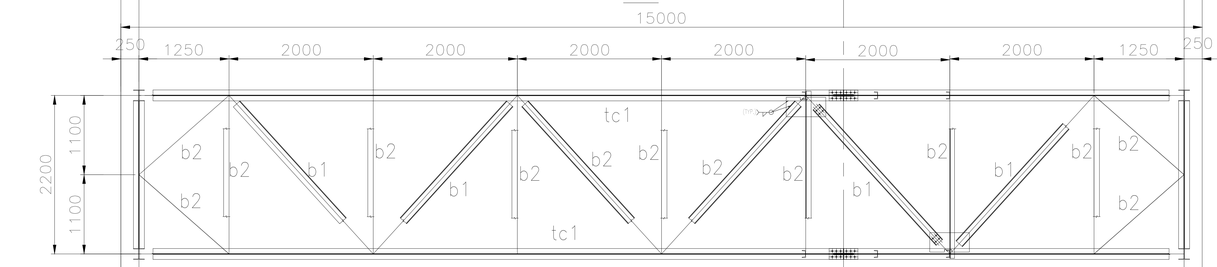
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

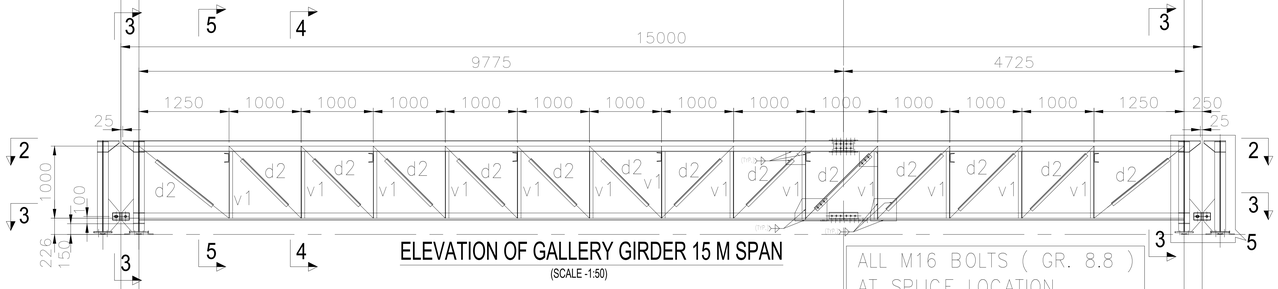


PLAN AT WALKWAY LEVEL
2 - 2



PLAN AT TOP CHORD LEVEL
2-2

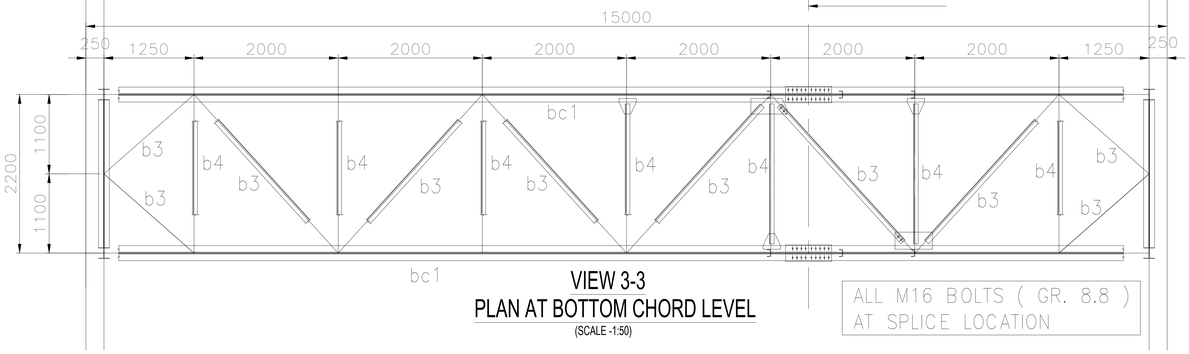
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



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

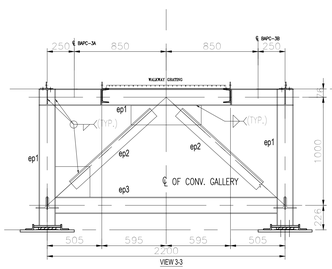
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

CL. OF SPLICE

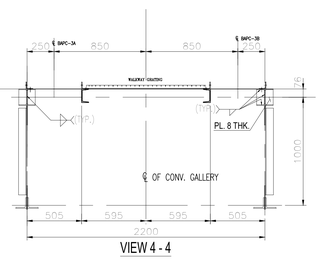


VIEW 3-3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

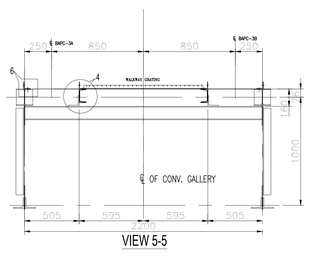
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



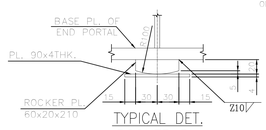
VIEW 3-3



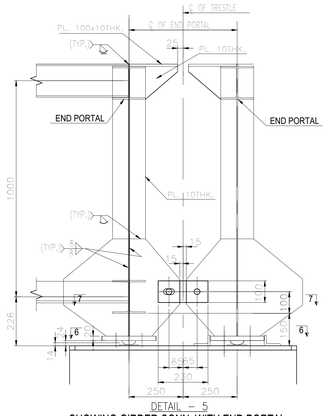
VIEW 4 - 4



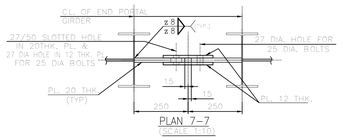
VIEW 5-5



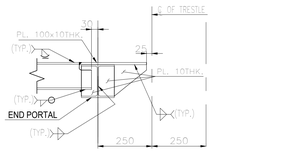
TYPICAL DET. ROCKER PL.
(SCALE 1:3)



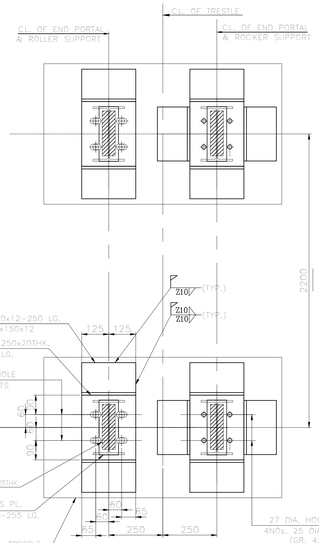
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



PLAN 7–7
(SCALE 1:10)



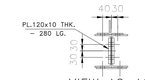
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



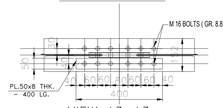
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR BAPC 15 M. GALLERY

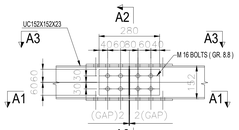
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 65x65x6 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d2	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 254x146x31	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.		8 mm. THK.	
8	FLOOR PL.		FLOORING WITH GRATING.	



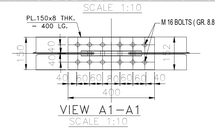
VIEW A2–A2
SCALE 1:10
32 NOS. 16 Ø BOLT



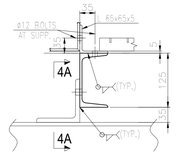
VIEW A3–A3
SCALE 1:10



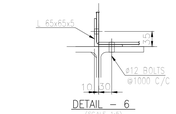
TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10



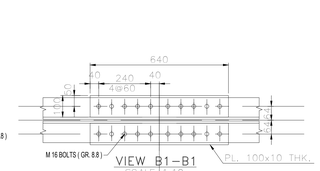
VIEW A1–A1
SCALE 1:10



DETAIL – 4
SCALE 1:10



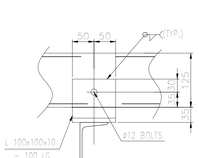
DETAIL – 6
SCALE 1:10



VIEW B1–B1
SCALE 1:10

TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

VIEW B2–B2
SCALE 1:10



VIEW 4A–4A

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	04/05/2019	Issued	Tech Pos.:	-
Mallick	05/06/2019	Gen.	Contact:	%SACHBE%
		E	-	
		D	-	
		C	-	
		B	-	
Basu	07/06/2019	A	Changes as customer remarks	
ISO 14405		Ind	Modification	Ref. -
ISO 13920-A/E			Origin	-

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF STD. 15 M. GALLERY BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_004_R1

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Scale: nts
Sheet/of: 1 / 1

Replacement for: -
Replaced by: -

4				
3				
2				
1				Changes as per comments
REV.	DATE	DRN	CHD	APPD / DESCRIPTION/NOTE

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

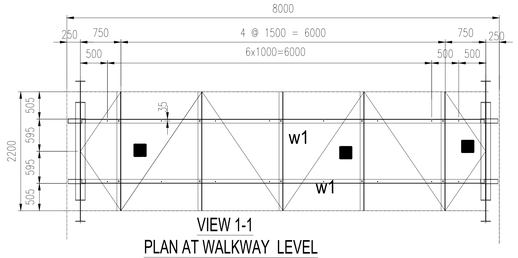
CUSTOMER/PROJECT: BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

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

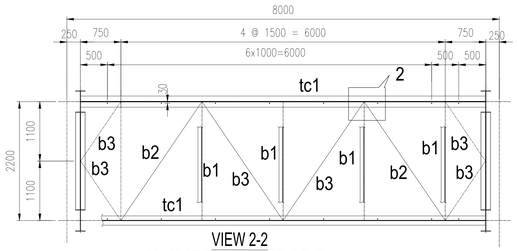
	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	19.06.2019	BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany	NTS
CHD	–	19.06.2019		SHEET 1
APPD	–	19.06.2019	TITLE: STRUCTURAL GA OF BAPC 3A–3B	OF 1
SUPERSEDES			BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM			ANNEX.: – DRAWING NO.:	REV.: 1
CUSTOMER DRAWING NO.:			Maitree–00–UEU–LC–177430–ISG–0	

A0 [1189 x 841]

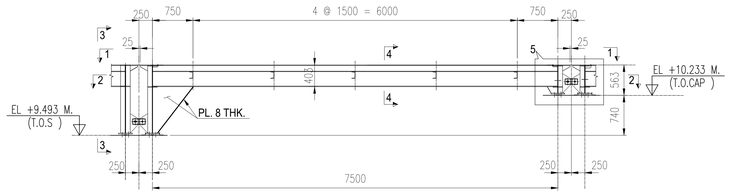
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



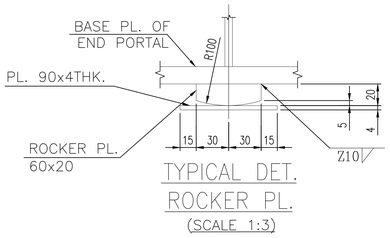
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



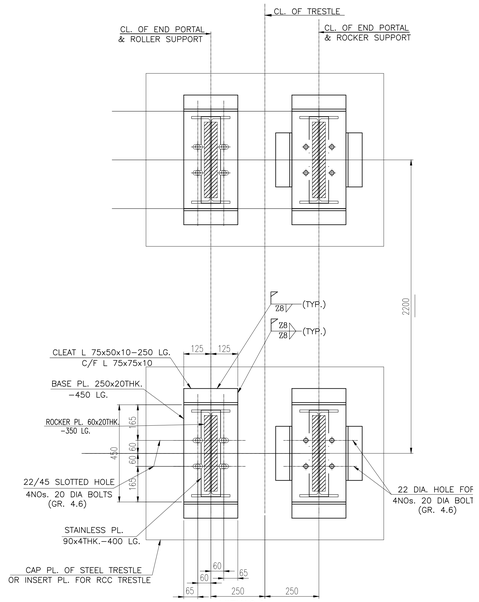
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)



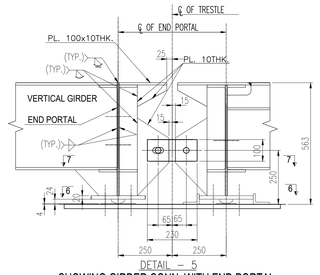
ELEVATION OF GALLERY GIRDER MKD. CG/6-8
(SCALE -1:50)



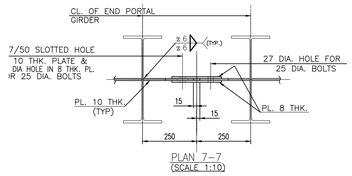
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



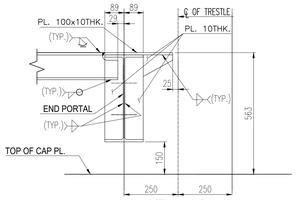
VIEW 6-6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

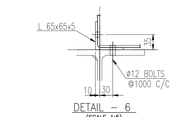


PLAN 7–7
(SCALE 1:10)

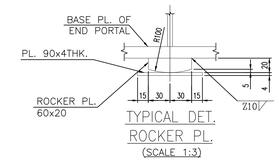


DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

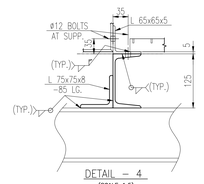
SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8	75
		b3	L 65x65x6	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



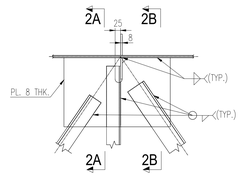
DETAIL – 6
(SCALE 1:5)



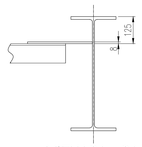
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



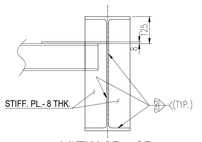
DETAIL – 4
(SCALE 1:5)



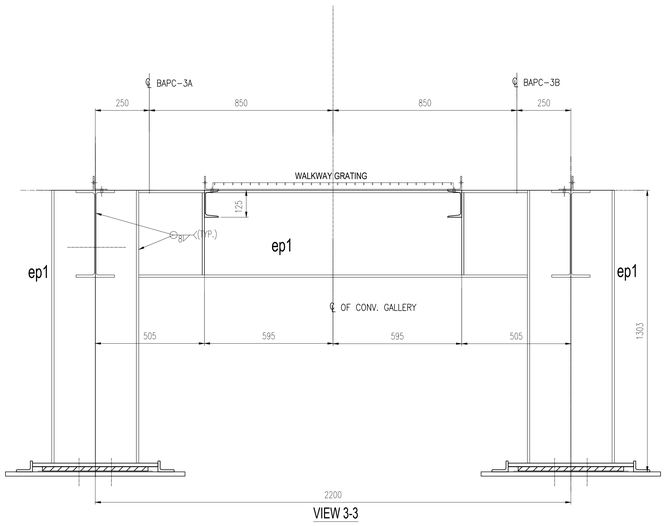
DETAIL - 2 (TYP.)



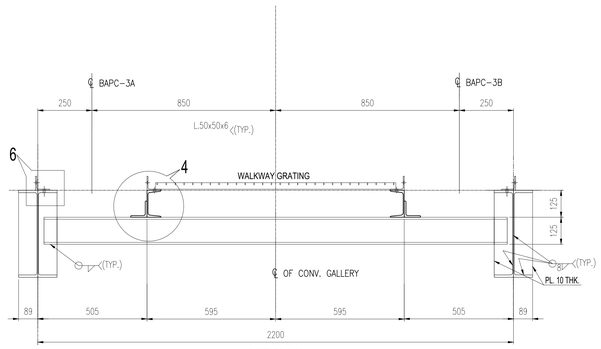
VIEW 2A - 2A



VIEW 2B - 2B



VIEW 3-3



VIEW 4-4

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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%

E	-		
D	-		
C	-		
B	-		
A	Changes as customer remarks	Basu	27/08/2019
Ind	Modification	Ref.	-
Origin			

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-6/8

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_005_R1

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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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

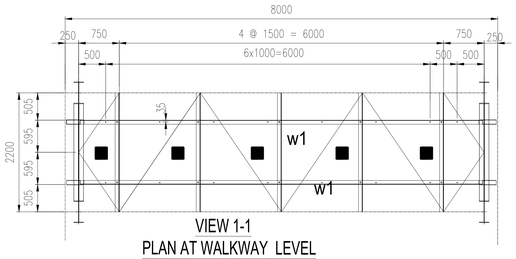
SUPERSEDES	BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.:	REV.: 1

CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

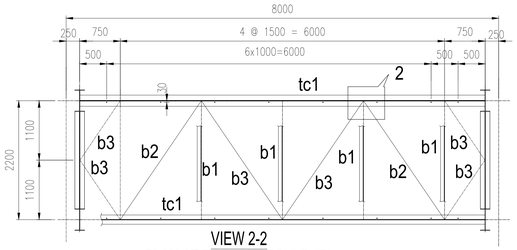
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

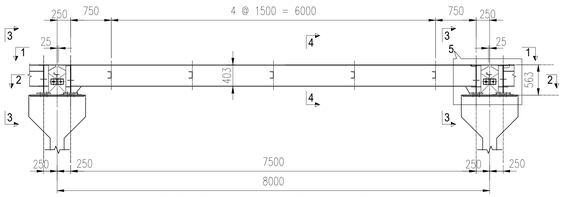
SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8	75
		b3	L 65x65x6	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



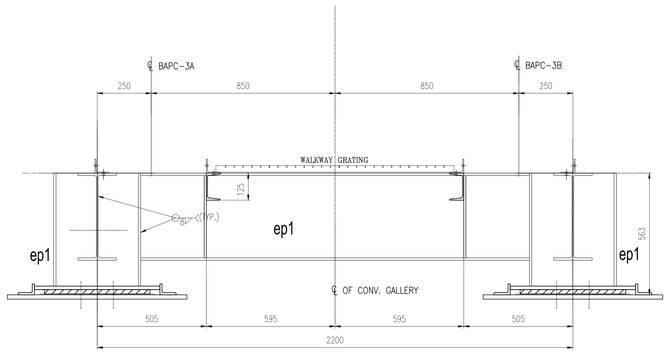
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



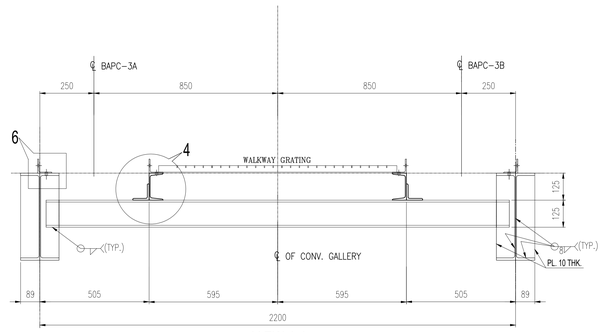
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)



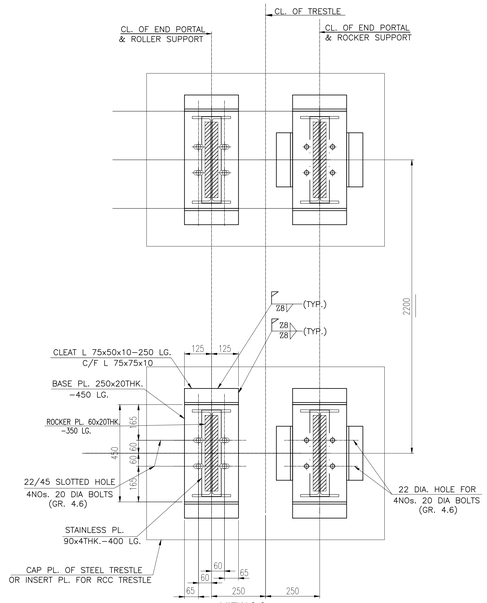
ELEVATION OF GALLERY GIRDER
(SCALE -1:50)



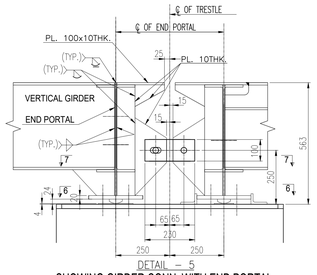
VIEW 3-3



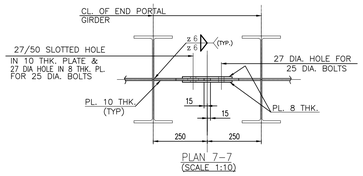
VIEW 4-4



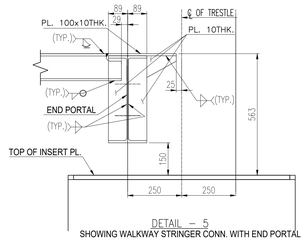
VIEW 6-6



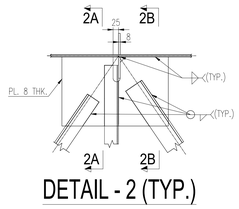
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



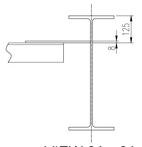
PLAN 7–7
(SCALE 1:10)



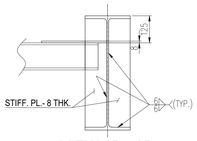
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



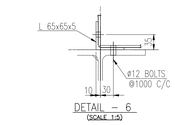
DETAIL - 2 (TYP.)



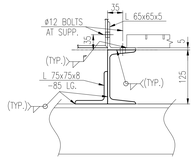
VIEW 2A - 2A

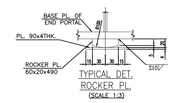


VIEW 2B - 2B

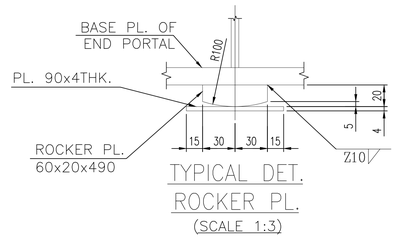


DETAIL – 6
(SCALE 1:5)





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



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					Changes as per comments

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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET OF

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	STATUS OF DRG.: FOR APPROVAL
SYSTEM	PROJECT NO.: 618–450068
CUSTOMER DRAWING NO.:	ANNEX.: – DRAWING NO.: REV.: 1
	Maitree–00–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/08/2019	Gen.	Contact: %SACHBE%

		E	
		D	
		C	
		B	
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-AE			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF 8M. STD. GAL BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_006_R1

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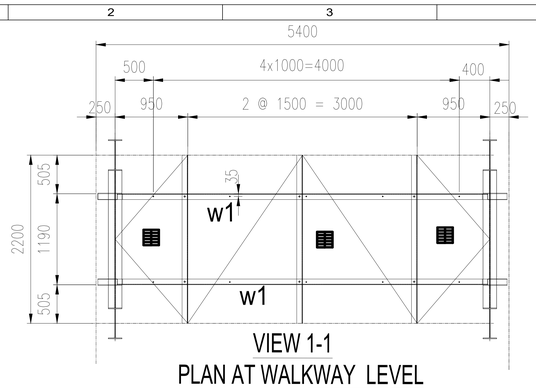
Scale: mls | Sheet/of: 1 / 1

Ref.: - | Replaced for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

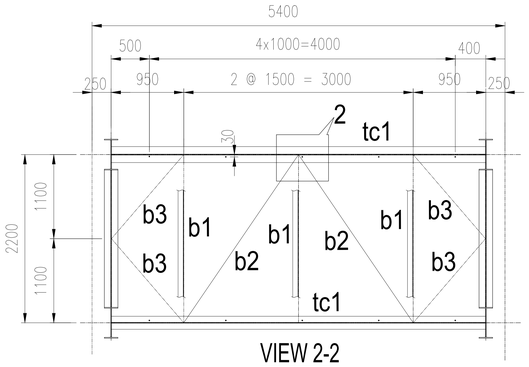
A0 [1189 x 841]



VIEW 1-1

PLAN AT WALKWAY LEVEL

(SCALE -1:50)

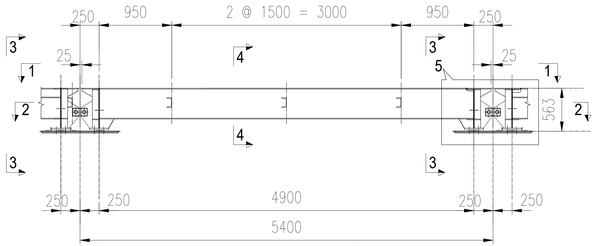


VIEW 2-2

PLAN AT TOP CHORD LEVEL

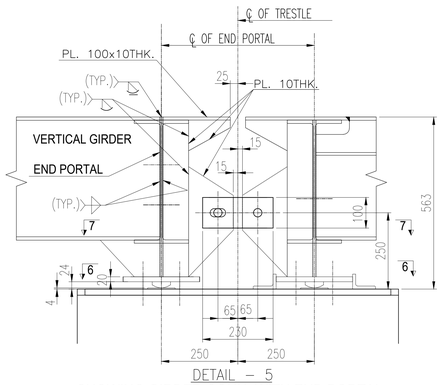
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.

(SCALE -1:50)



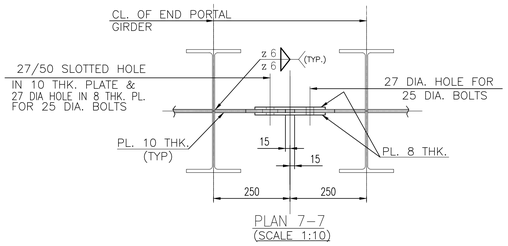
ELEVATION OF GALLERY GIRDER MKD. CG/8-5.4

(SCALE -1:50)



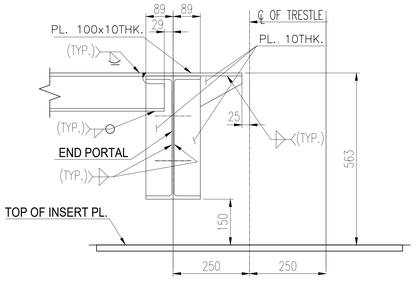
DETAIL – 5

SHOWING GIRDER CONN. WITH END PORTAL



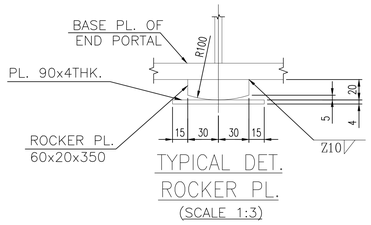
PLAN 7–7

(SCALE 1:10)



DETAIL – 5

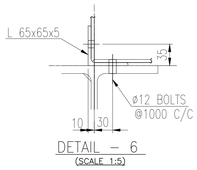
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



TYPICAL DET.

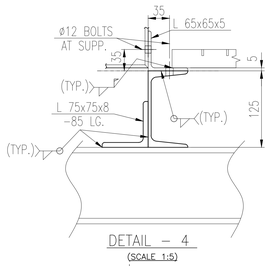
ROCKER PL.

(SCALE 1:3)



DETAIL – 6

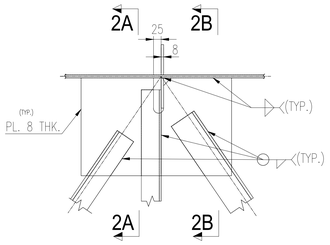
(SCALE 1:5)



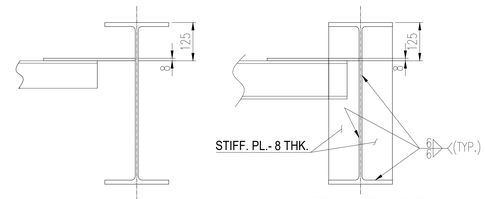
DETAIL – 4

(SCALE 1:5)

SCHEDULE OF MEMBERS FOR BAPC 5.4 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	

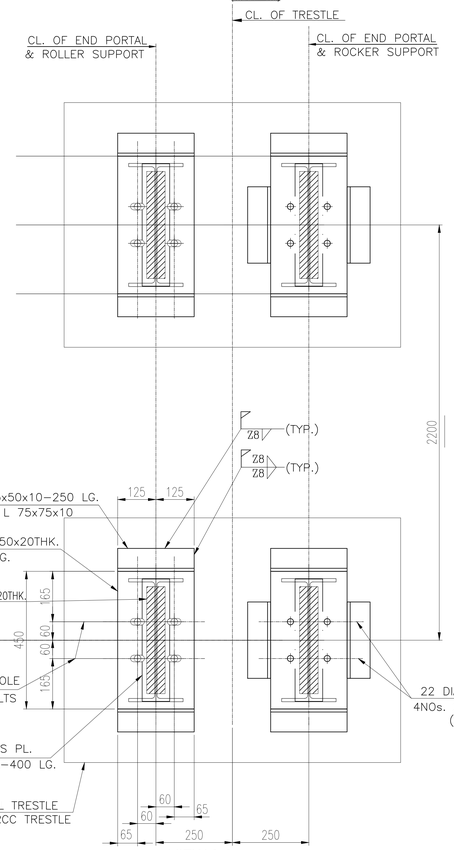


DETAIL - 2 (TYP.)



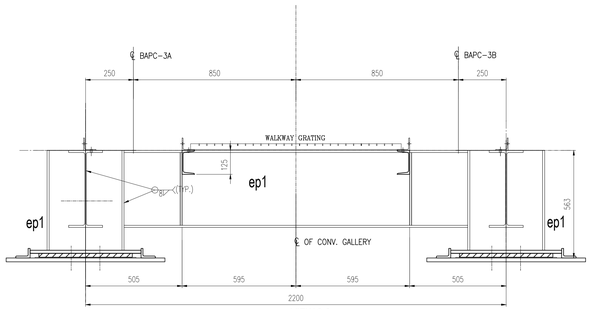
VIEW 2A - 2A

VIEW 2B - 2B

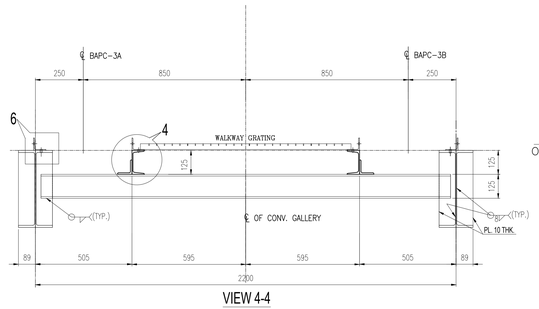


VIEW 6-6

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



VIEW 3-3



VIEW 4-4

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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%
-		E	-	
-		D	-	
-		C	-	
-		B	-	
Basu	07/08/2019	A	Changes as customer remarks	
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/8-5.4

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_007_R1

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Scale: nts

Sheet/of 1 / 1

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET OF

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES | BHEL JOB NO.: 702 | STATUS OF DRG.: FOR APPROVAL

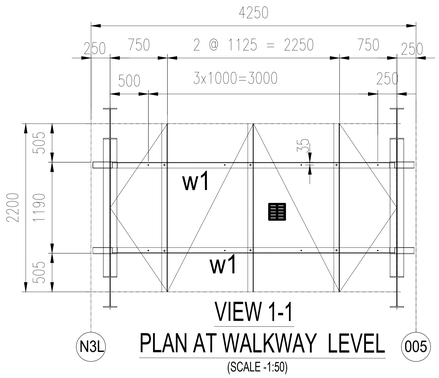
SUPERSEDED BY | SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068

SYSTEM | ANNEX.: – | DRAWING NO.: | REV.: 1

CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A1 [841 x 594]

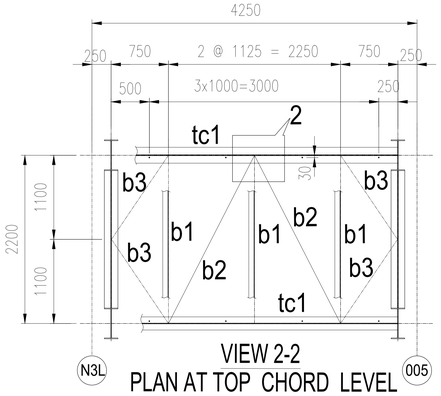


VIEW 1-1

PLAN AT WALKWAY LEVEL

N3L 005

(SCALE -1:50)



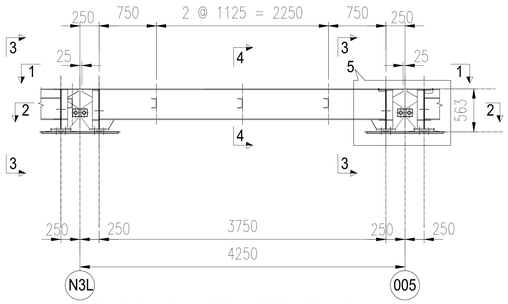
VIEW 2-2

PLAN AT TOP CHORD LEVEL

N3L 005

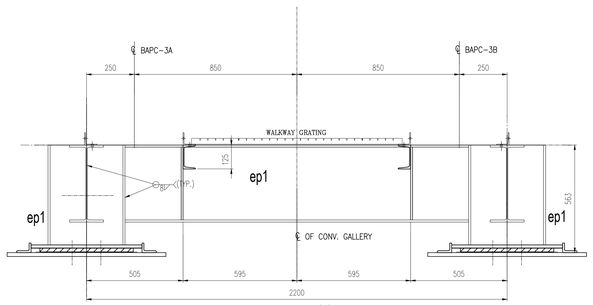
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.

(SCALE -1:50)

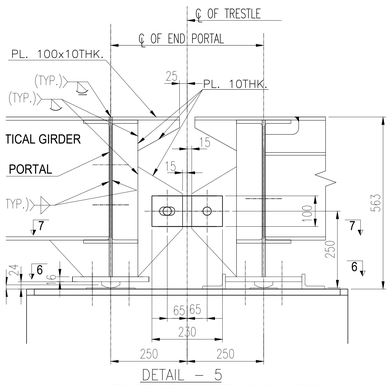


ELEVATION OF GALLERY GIRDER MKD.-CG/11-4.25

(SCALE -1:50)

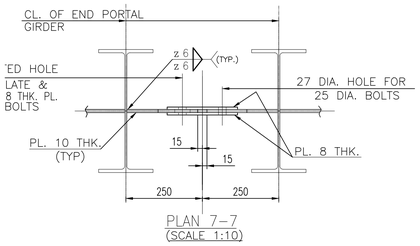


VIEW 3-3



DETAIL – 5

SHOWING GIRDER CONN. WITH END PORTAL

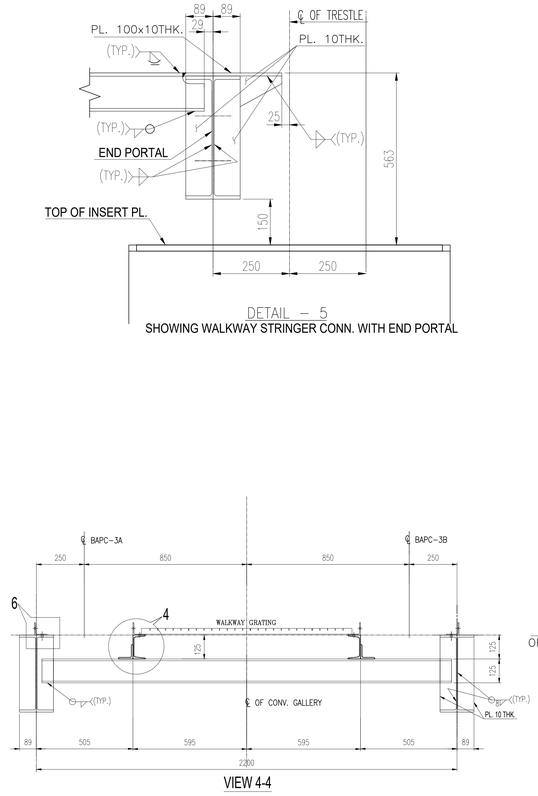


PLAN 7–7

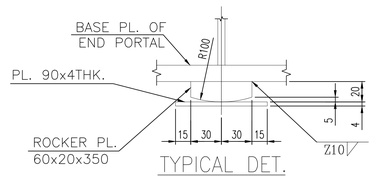
(SCALE 1:10)

DETAIL – 5

SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



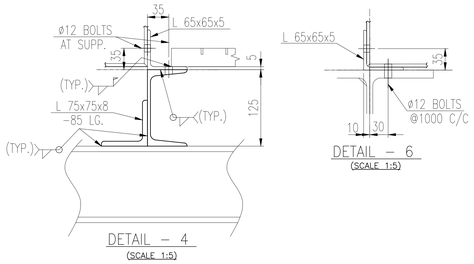
VIEW 4-4



TYPICAL DET.

ROCKER PL.

(SCALE 1:3)



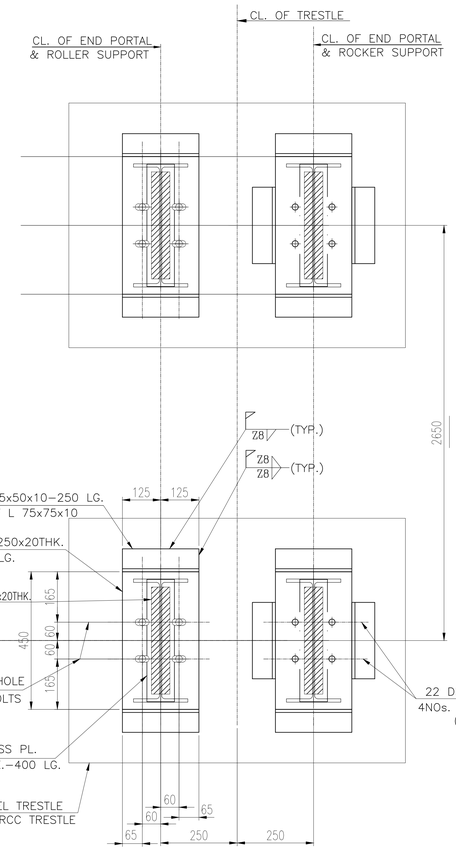
DETAIL – 4

(SCALE 1:5)

DETAIL – 6

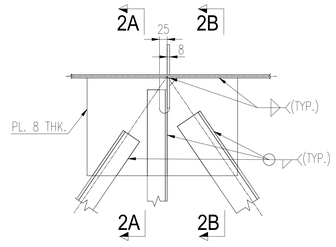
(SCALE 1:5)

SCHEDULE OF MEMBERS FOR BAPC GALLERY MKD.-CG/11-4.25				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8	75
		b3	L 65x65x6	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	

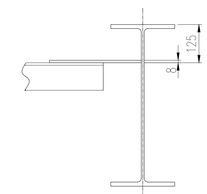


VIEW 6-6

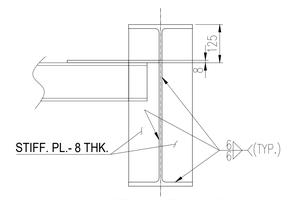
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL - 2 (TYP.)



VIEW 2A - 2A



VIEW 2B - 2B

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

4					
3					
2					
1					Changes as per comments
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET OF

TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES

SUPERSEDED BY

SYSTEM

BHEL JOB NO.: 702

STATUS OF DRG.: FOR APPROVAL

SIZE– A0 [1189 x 841]

PROJECT NO.: 618–450068

ANNEX.: –

DRAWING NO.:

REV.: 1

CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order.No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%
-		E	-	
-		D	-	
-		C	-	
-		B	-	
Basu	07/08/2019	A	Changes as customer remarks	
ISO 14405		Ind	Modification	Ref.: -
ISO 13920-A/E			Origin	-

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG/11-4.25

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_008_R1

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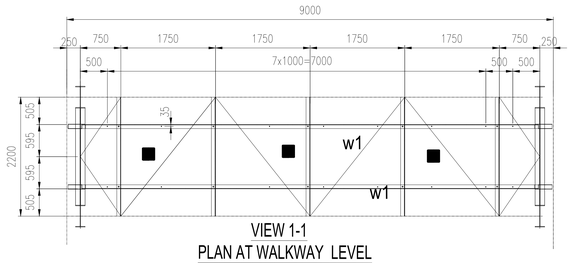
Scale: nts

Sheet/of 1 / 1

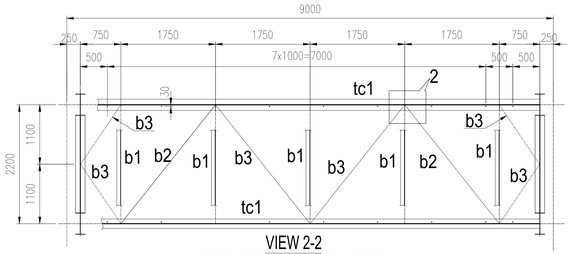
Replacement for - Replaced by -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

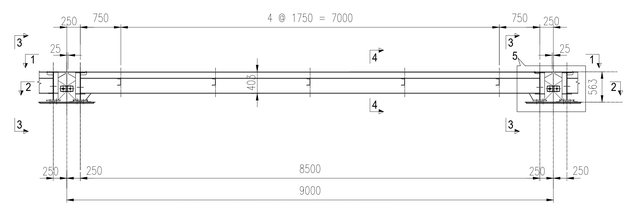
A0 [841 x 594]



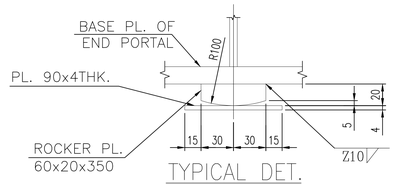
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



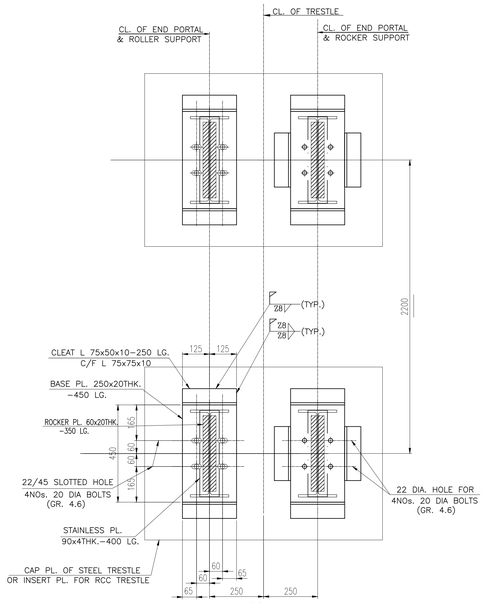
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)



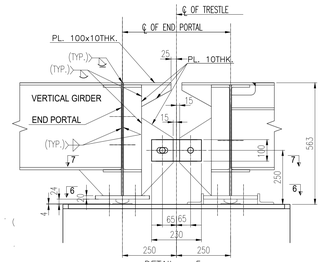
ELEVATION OF GALLERY GIRDER
(SCALE -1:50)



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

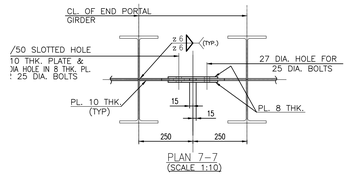


VIEW 6-6

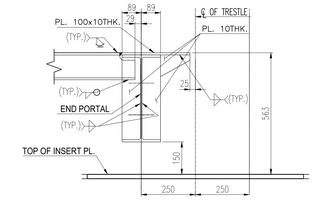


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

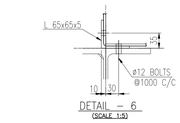
SCHEDULE OF MEMBERS FOR BAPC 9 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	



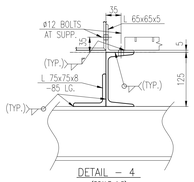
PLAN 7–7
(SCALE 1:10)



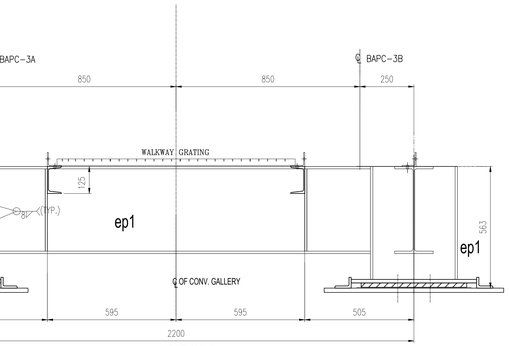
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



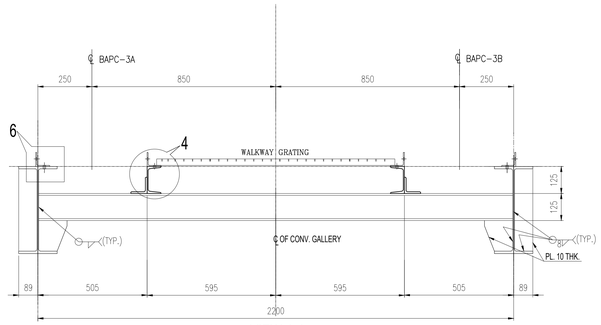
DETAIL – 6
(SCALE 1:5)



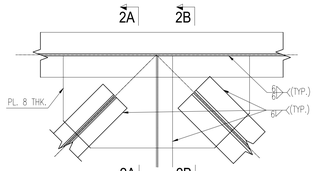
DETAIL – 4
(SCALE 1:5)



VIEW 3-3

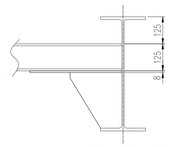


VIEW 4-4



DETAIL - 2 (TYP.)

VIEW 2A - 2A



VIEW 2B - 2B

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 09M. STD. GAL BAPC 3A/B
Basu	04/05/2019	Issued	Tech.Pos.: -		
Mallick	06/08/2019	Dsgn	Contact: %SACHBE%	Drawing No.	S18_45068_BAPC 3AB_LD_009_R1
		E	-		
		D	-		
		C	-		
		B	-	Scale	nts
Basu	07/08/2019	A	Changes as customer remarks	Sheet/of	1 / 1
ISO 14405 ⓓ ⇔		Ind	Modification Ref.: -		
ISO 13920-A/E			Origin -	Replacement for -	Replaced by -

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4				
3				
2				
1				Changes as per comments
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS

SHEET OF

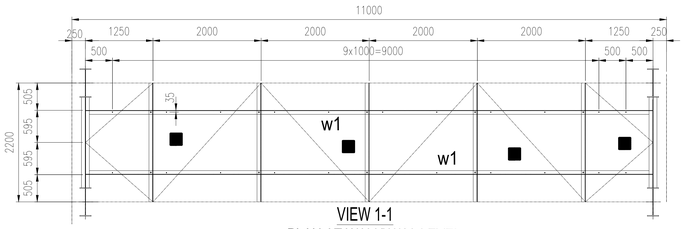
TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.:	REV.: 1

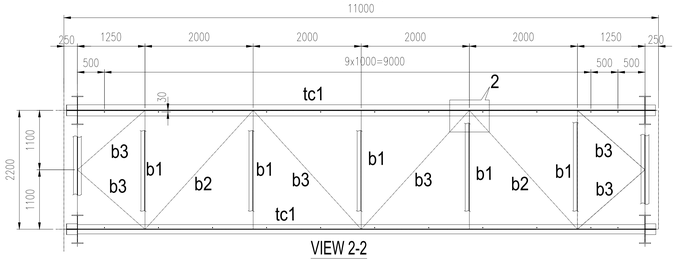
CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

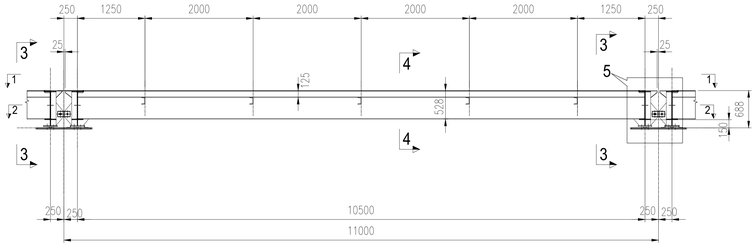
A0 [1189 x 841]



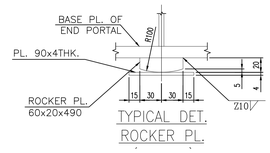
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



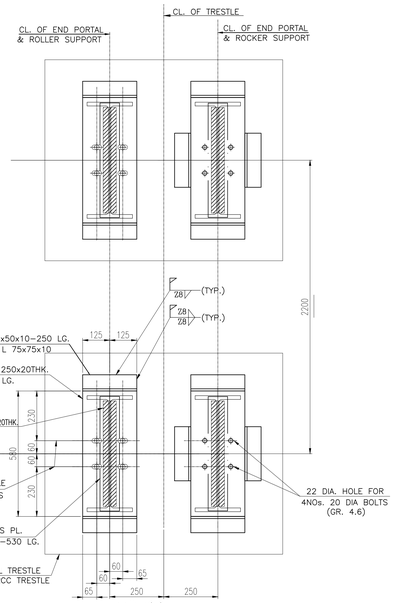
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



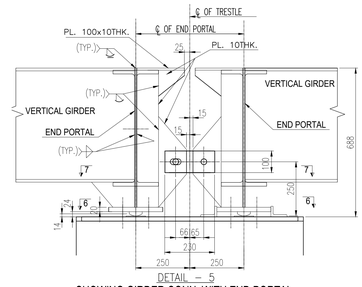
ELEVATION OF GALLERY GIRDER 11 M.
(SCALE -1:50)



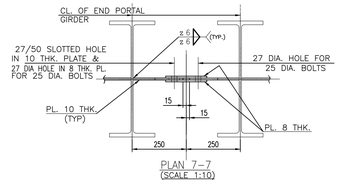
TYPICAL DET. ROCKER PL.



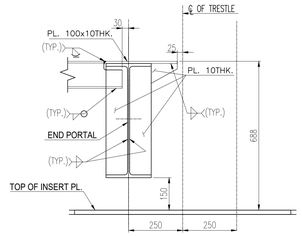
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



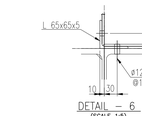
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



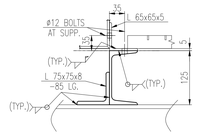
PLAN 7–7
(SCALE 1:10)



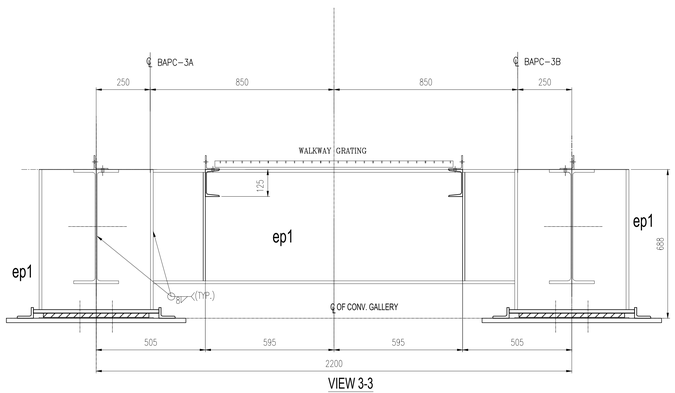
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



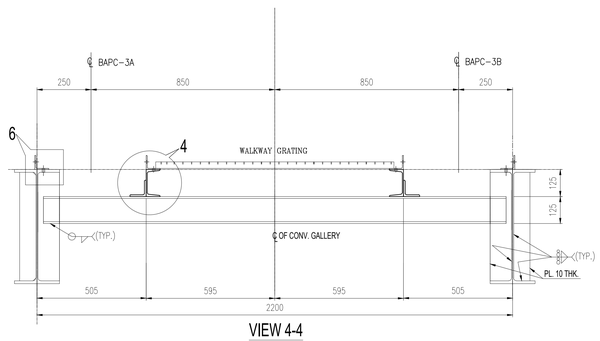
DETAIL – 6
(SCALE 1:5)



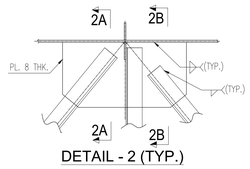
SCHEDULE OF MEMBERS FOR BAPC 11 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



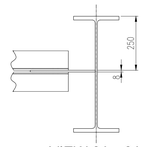
VIEW 3-3



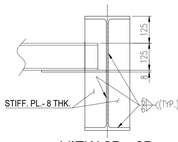
VIEW 4-4



DETAIL - 2 (TYP.)



VIEW 2A - 2A



VIEW 2B - 2B

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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A–3B
SUPERSEDES: BHEL JOB NO.: 702
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–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	09/08/2019	Gepr.	Contact: %SACHBE%
		E	
		D	
		C	
		B	
Basu	07/08/2019	A	Changes as customer remarks
		Ind	Modification Ref.: -

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF STD. 11 M. GALLERY BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_010_R1

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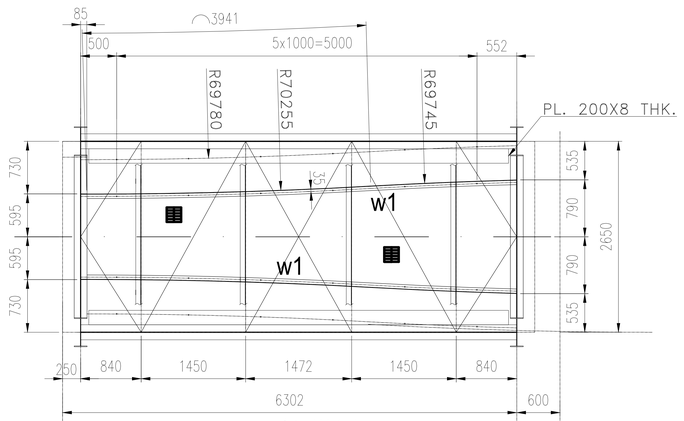
Scale: nts
Sheet/of 1 / 1
Origin: - Replacement for: - Replaced by: -

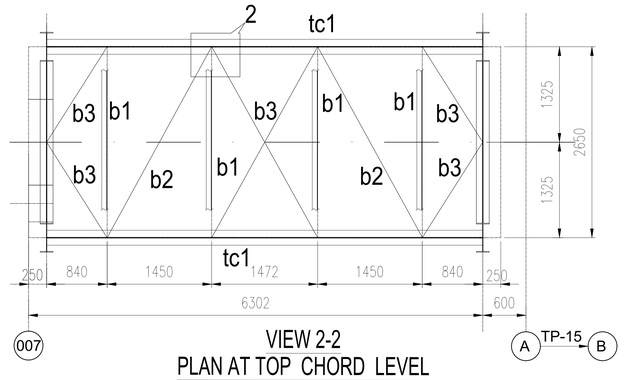
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

AO [1189 x 841]



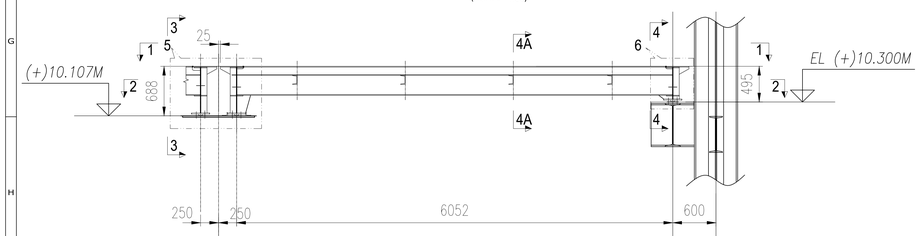
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)

007 — A TP-15 B



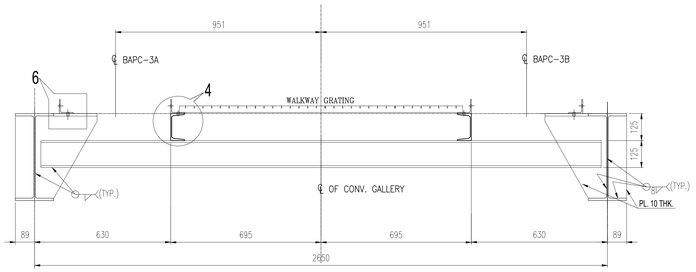
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)

007 — A TP-15 B

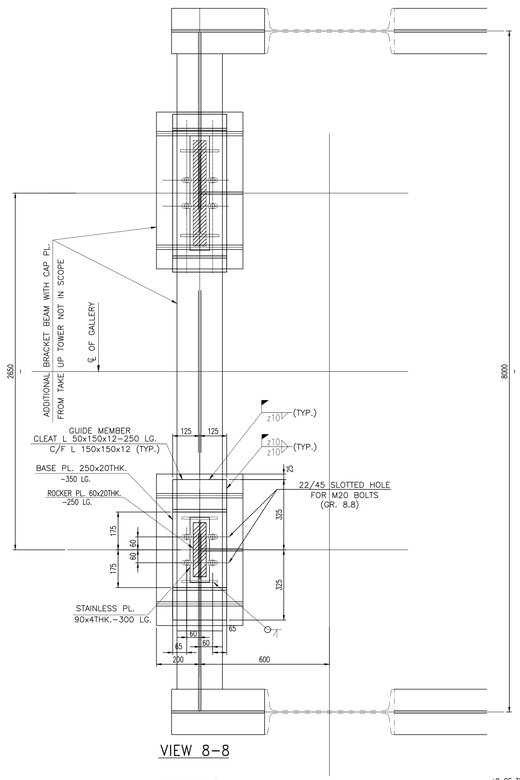


ELEVATION OF GALLERY GIRDER MKD. CG/14 - 6.9
(SCALE -1:50)

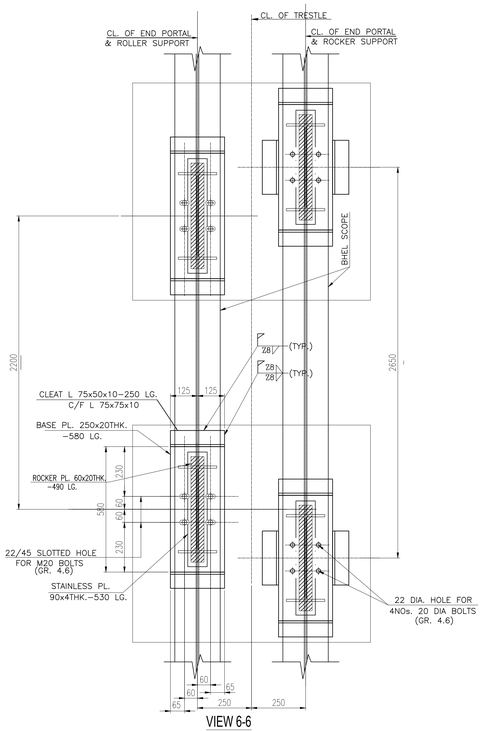
007 — A TP-15 B



VIEW 4A - 4A

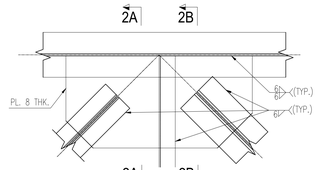


VIEW 8-8

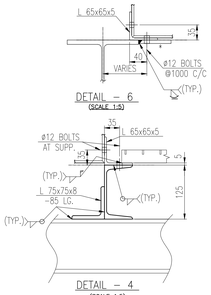


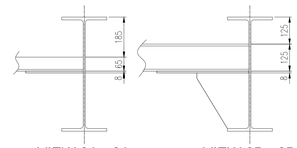
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR BAPC GALLERY MKD.-CG/14				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 L	75
		b3	L 65x65x6 L	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

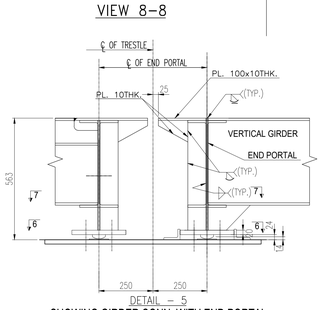


DETAIL - 2 (TYP.)

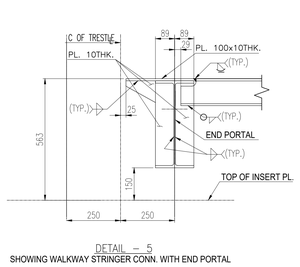




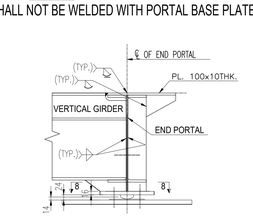
VIEW 2A - 2A VIEW 2B - 2B



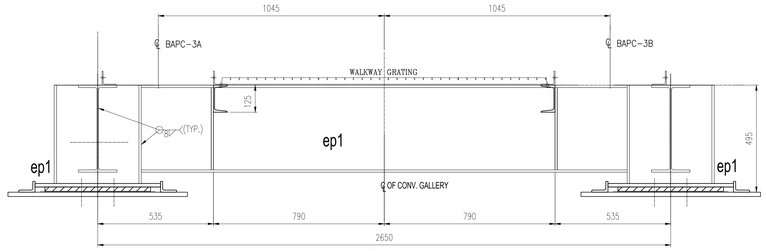
DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL



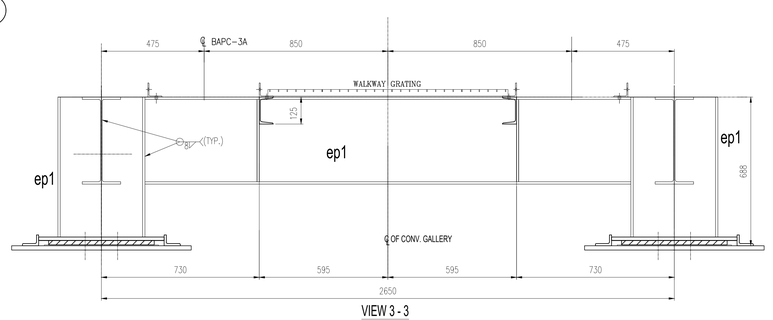
DETAIL - 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



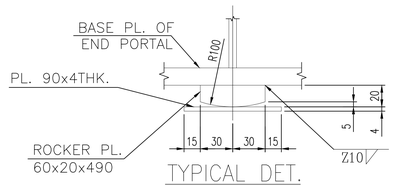
DETAIL - 6
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 4 - 4



VIEW 3 - 3



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					
Name	Date	%AT%	Order.No.:	618-450068	
Basu	04/05/2019	Issued	Tech.Pos.:	-	
Mallick	06/08/2019	Dept.	Contact:	%SACHBE%	
		E			
		D			
		C			
		B			
Basu	07/08/2019	A	Changes as customer remarks		
ISO 14405		Ind	Modification	Ref.: -	
ISO 13920-A/E				Origin	

Customer	BHARAT HEAVY ELECTRICALS LTD.
Designation	STRUCTURAL GA OF CG-14/6.9
	BAPC 3A/B
Drawing No.	S18_45068_BAPC 3AB_LD_011_R1

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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					Changes as per 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

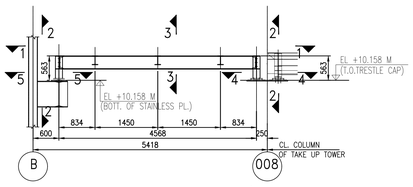
EPC CONTRACTOR:
BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES: BHEL JOB NO.: 702
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-UEU-LC-177430-ISG-0

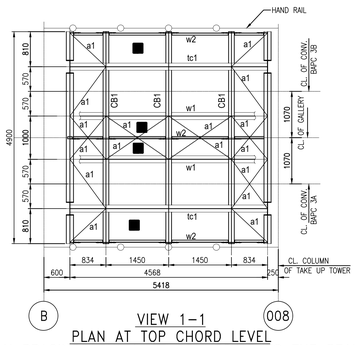
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]



ELEVATION OF GALLERY GIRDER MKD. CG/15-5.4

(SCALE -1:50)

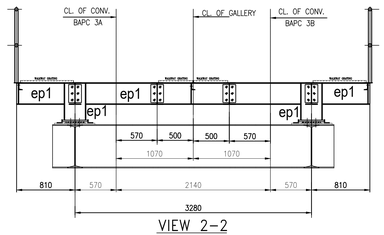


VIEW 1-1

PLAN AT TOP CHORD LEVEL

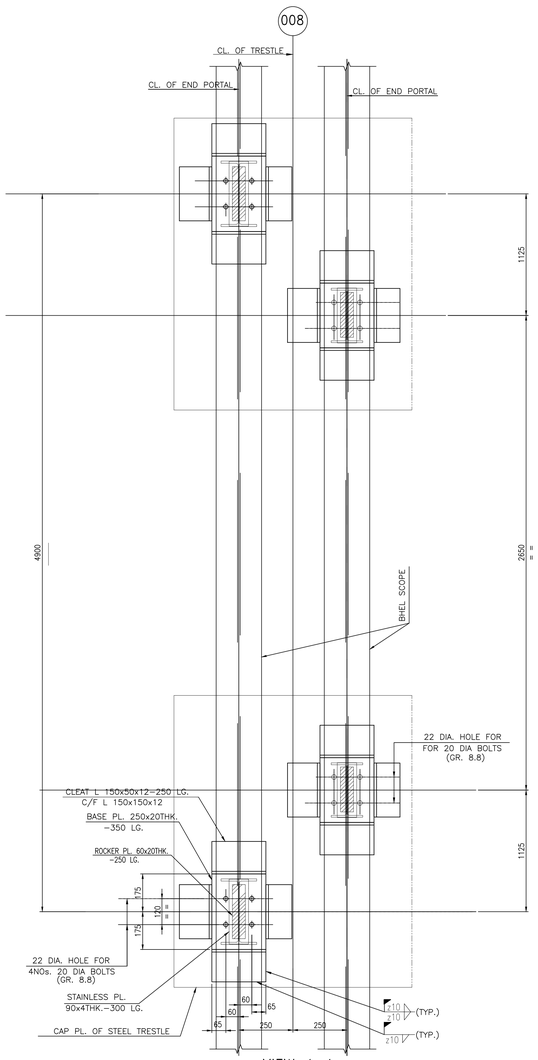
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 203 MM BELOW WALKWAY LEVEL

(SCALE -1:50)



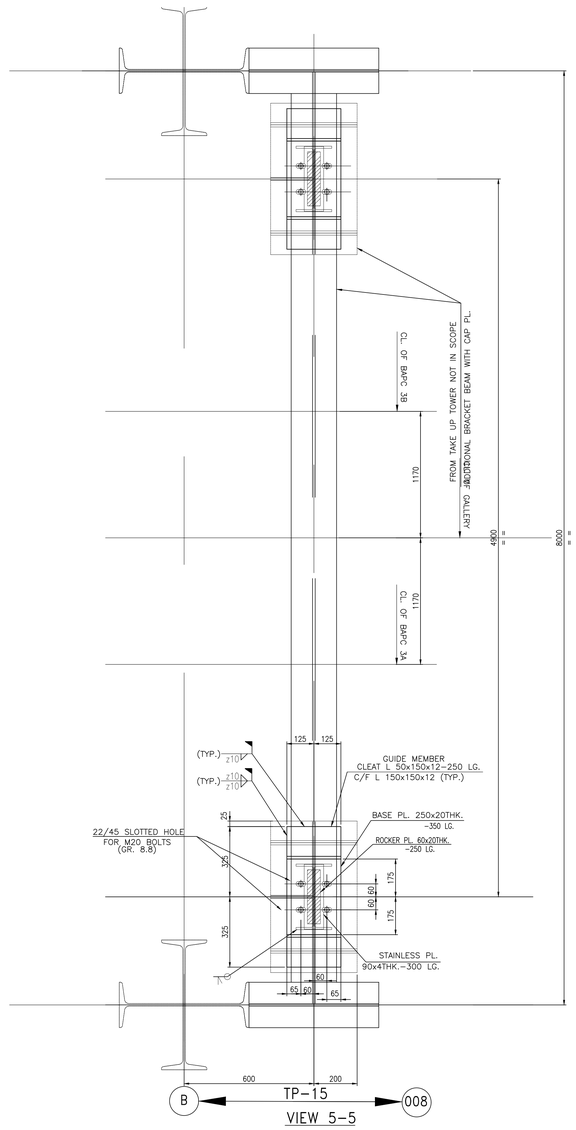
VIEW 2-2

(SCALE -1:30)



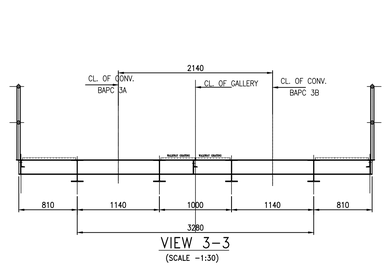
VIEW 4-4

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



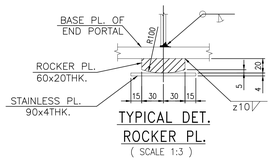
VIEW 5-5

SCHEDULE OF MEMBERS FOR LSPC CG/116-6.04 GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 305x165x40	15
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL			
		a1	L 65x65x6 ⌜	15
	CROSS BEAM	CB1	UB 203x133x25	10
2	END PORTAL	ep1	UB 305x165x40	60
3	WALK WAY STRINGER	w1	UB 305x165x40	10
		w2	ISMC 100 ⊏	10
4	FLOOR PL.	FLOORING WITH GRATING.		
5	TOP RAIL	40 NB (M) PIPE		
6	MID RAIL			
7	POST			
8	TOE GUARD	SKELP 121X3.25 THK.		
9	GST. PLATE 8 THK.			



VIEW 3-3

(SCALE -1:30)



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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES | BHEL JOB NO.: 702 | 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-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Dept.	Contact:	%SACHBE%

		E	-
		D	-
		C	-
		B	-
Basu	07/08/2019	A	Changes as customer remarks
		Ind	Modification

ISO 14405 ⊖ ⊕ ⊖ | ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-15/5.4 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_012_R1

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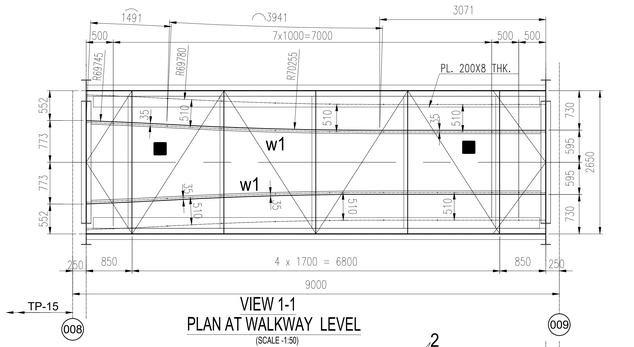
Scale: nts | Sheet/of 1 / 1

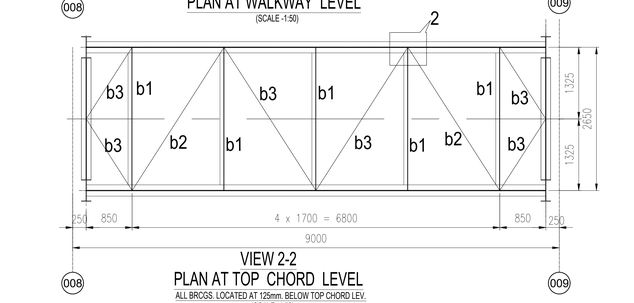
Origin: - | Replacement for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

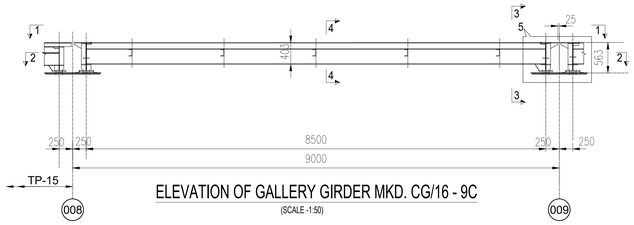
A0 [1189 x 841]



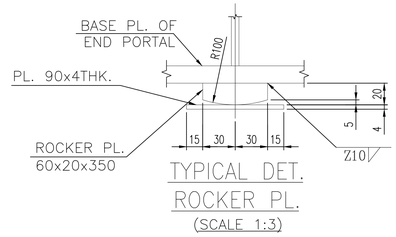
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



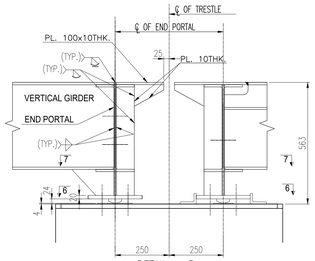
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)



ELEVATION OF GALLERY GIRDER MKD. CG/16 - 9C
(SCALE -1:50)

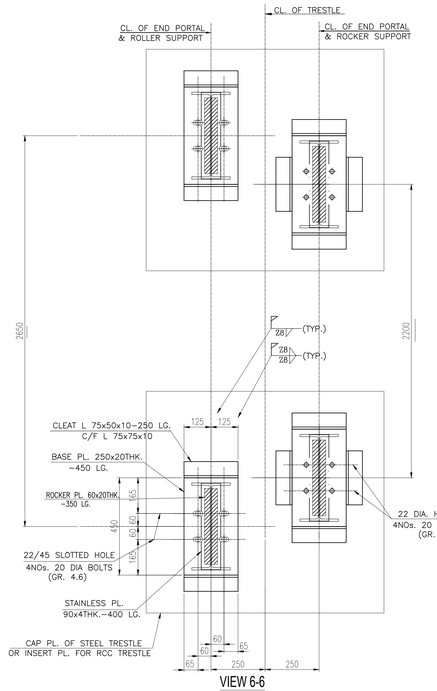


TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

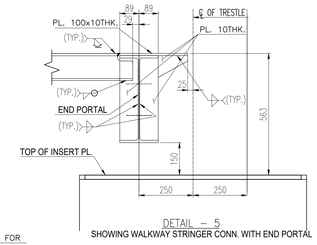


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

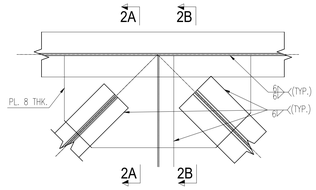
SCHEDULE OF MEMBERS FOR BAPC GALLERY MKD.–CG/16				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 L	75
		b3	L 65x65x6 L	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	



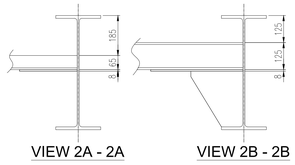
VIEW 6-6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

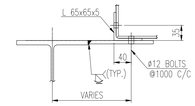


DETAIL - 2 (TYP.)

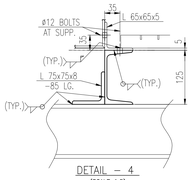


VIEW 2A - 2A

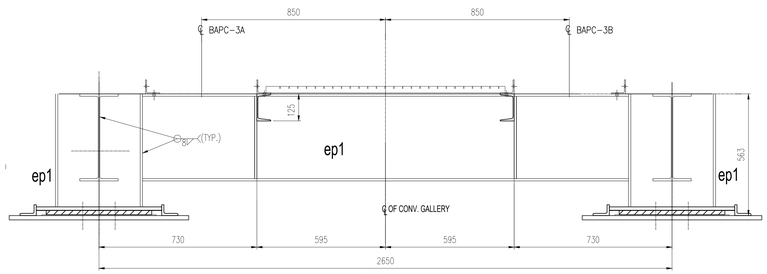
VIEW 2B - 2B



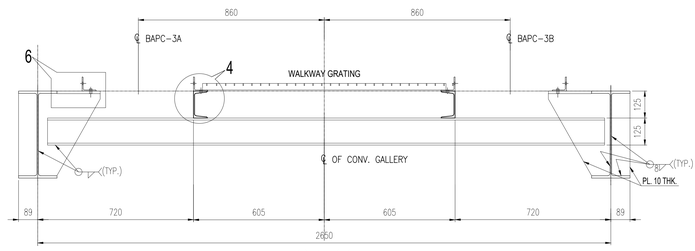
DETAIL – 6
(SCALE 1:5)



DETAIL – 4
(SCALE 1:5)



VIEW 3-3



VIEW 4-4

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	04/05/2019	Issued	Tech.Pos.:	-	Designation
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%	STRUCTURAL GA OF CG/16-9C
		E	-		BAPC 3A/B
		D	-		Drawing No.
		C	-		S18_45068_BAPC 3AB_LD_013_R1
		B	-		Scale
Basu	27/08/2019	A	Changes as customer remarks		n/a
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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

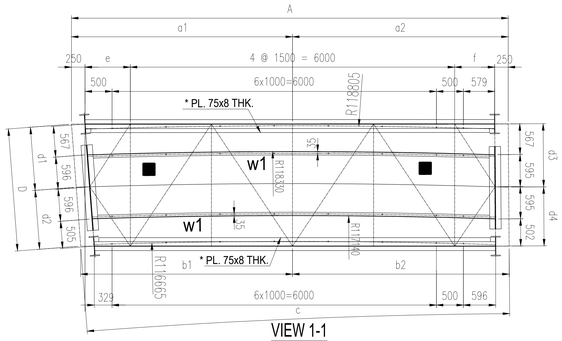
TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES		BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM		ANNEX.: – DRAWING NO.:	REV.: 1

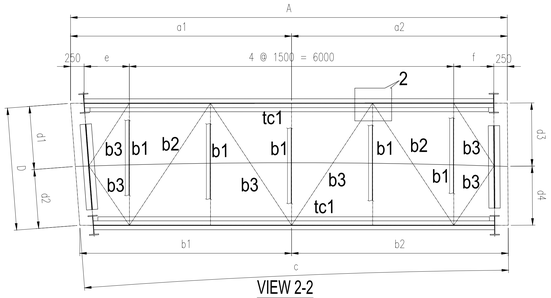
SCALE NTS
SHEET OF
CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

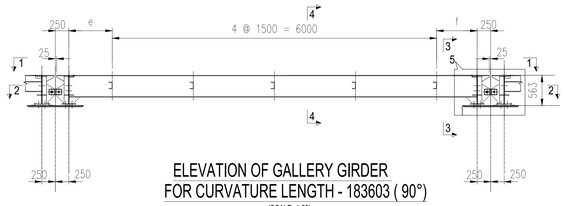
A0 [1189 x 841]



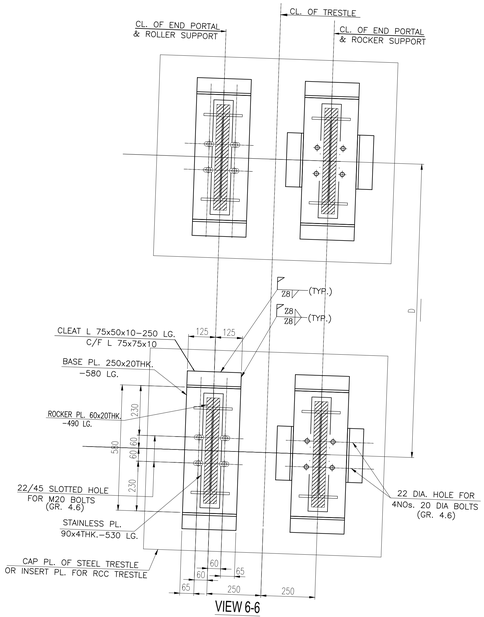
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



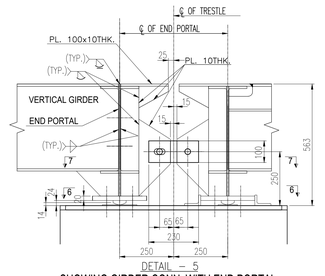
VIEW 2-2
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



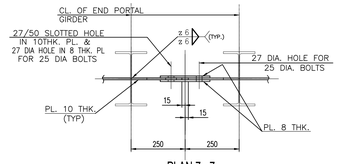
ELEVATION OF GALLERY GIRDER
FOR CURVATURE LENGTH - 183603 (90°)
(SCALE -1:50)



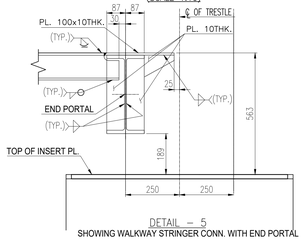
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



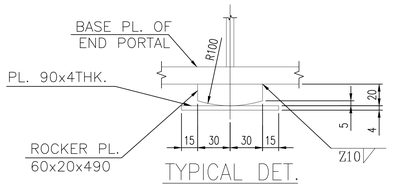
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



PLAN 7 - 7
(SCALE 1:10)



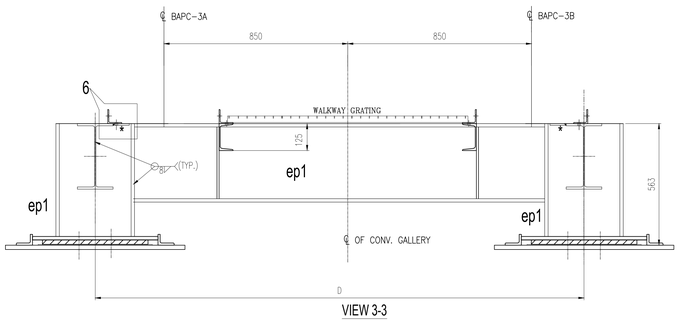
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



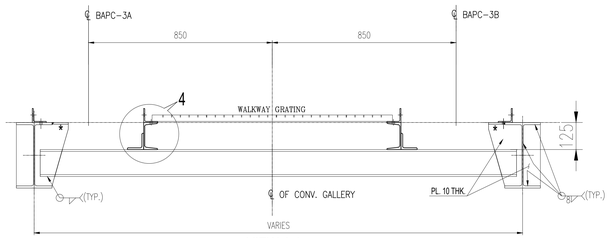
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

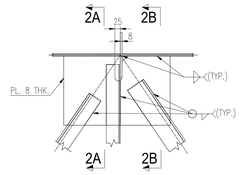
BASIC DIMENSION FOR 8M. GALLERIES ON CURVATURE													
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)											
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/18-8C	7999	4008	3992	3987	4008	0.1°	2210	1142	1068	1142	1068	758	742
2	CG/19-8C	8070	4089	3981	3937	3998	3°	2263	1171	1092	1168	1093	839	731
5	CG/23-8C	8080	4088	3991	3918	4008	4°	2264	1171	1093	1168	1093	838	741
6	CG/24-8C	8330	4339	3992	4168	4008	4°	2272	1180	1092	1168	1092	1088	742
7	CG/25-8C	8080	4088	3991	3918	4008	4°	2264	1171	1093	1168	1093	837	741
8	CG/26-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	742
9	CG/27-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	742
10	CG/28-8C	8080	4088	3991	3918	4007	4°	2264	1171	1093	1168	1093	838	741
11	CG/29-8C	8080	4088	3991	3918	4007	4°	2264	1171	1093	1168	1093	838	741
12	CG/30-8C	8079	4088	3991	3918	4008	4°	2264	1171	1093	1168	1093	837	741
13	CG/31-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	742
14	CG/32-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	742
15	CG/33-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	742
16	CG/34-8C	8079	4086	3991	3918	4008	4°	2264	1171	1093	1168	1093	837	741
17	CG/35-8C	8080	4088	3992	3918	4008	4°	2264	1171	1093	1168	1093	837	741
18	CG/36-8C	8080	4088	3991	3918	4008	4°	2264	1171	1093	1168	1093	837	741



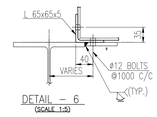
VIEW 3-3



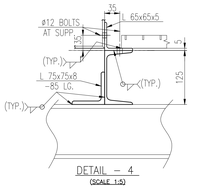
VIEW 4-4



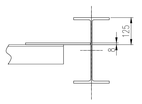
DETAIL - 2 (TYP.)



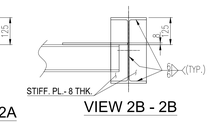
DETAIL – 6
(SCALE 1:5)



DETAIL – 4
(SCALE 1:5)



VIEW 2A - 2A



VIEW 2B - 2B

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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: 702
STATUS OF DRG.: FOR APPROVAL
SIZE- A0 [1189 x 841]
PROJECT NO.: 618-450068
ANNEX.: –
DRAWING NO.:
REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%
		E	-	
		D	-	
		C	-	
		B	-	
Basu	27/08/2019	A	Changes as customer remarks	
ISO 14405		Ind	Modification	Ref.: -
ISO 13920-A/E				Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF 8 M. CURV. GALLERY
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_014_R1
Scale: n/a
Sheet/of 1 / 1
Replacement for: -
Replaced by: -

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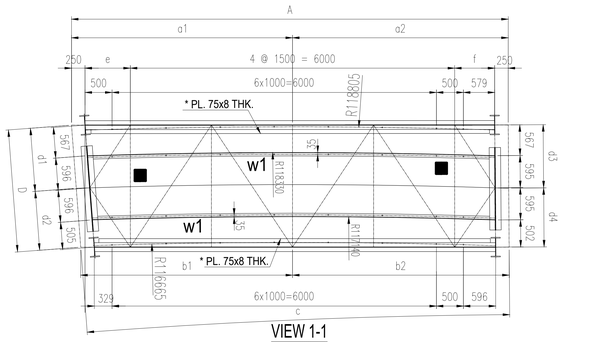
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

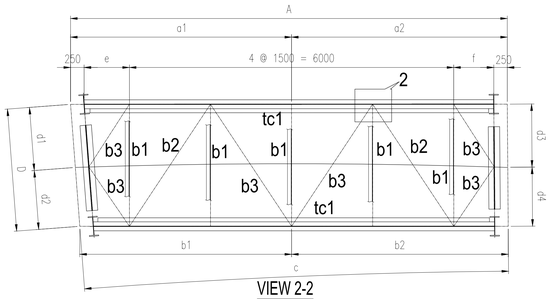
A0 [1189 x 841]



VIEW 1-1

PLAN AT WALKWAY LEVEL

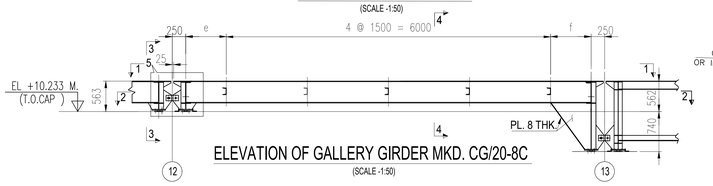
(SCALE -1:50)



VIEW 2-2

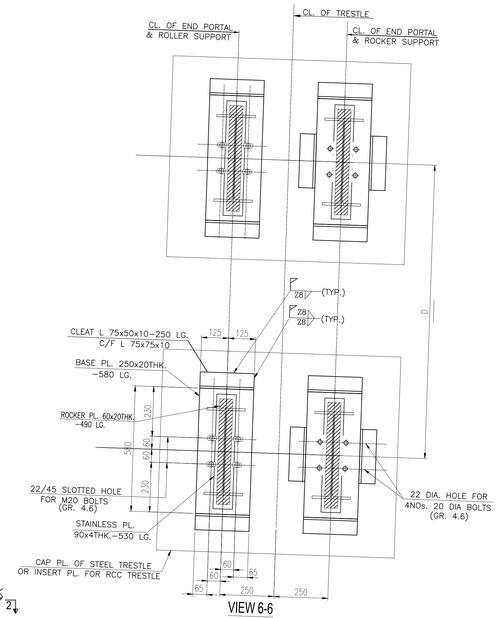
PLAN AT WALKWAY LEVEL

(SCALE -1:50)



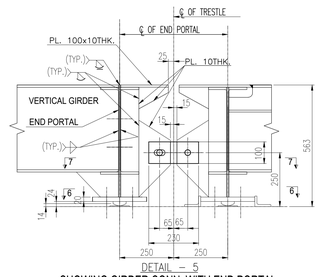
ELEVATION OF GALLERY GIRDER MKD. CG/20-8C

(SCALE -1:50)



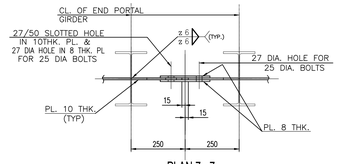
VIEW 6-6

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



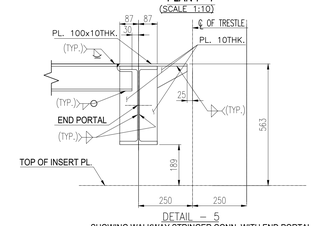
DETAIL – 5

SHOWING GIRDER CONN. WITH END PORTAL



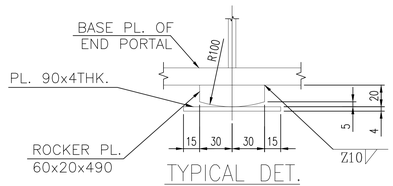
PLAN 7 - 7

(SCALE 1:10)



DETAIL – 5

SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



TYPICAL DET.

ROCKER PL.

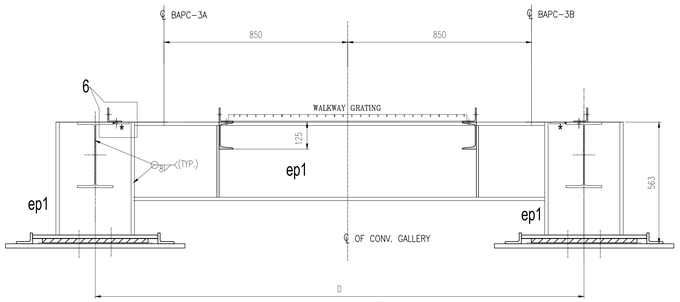
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY

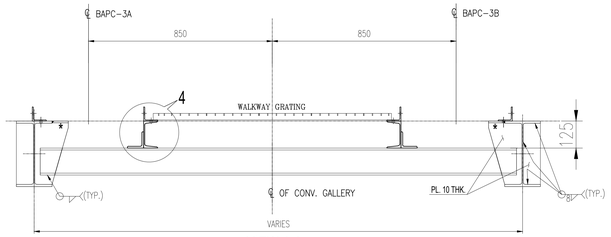
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	

BASIC DIMENSION FOR 8M. GALLERIES ON CURVATURE

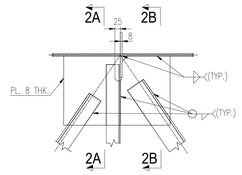
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)											
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/20-8C	8080	4088	3992	3918	4008	4°	2260	1168	1093	1168	1093	837	742



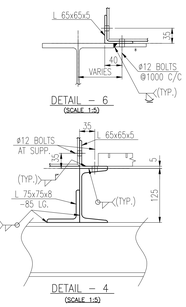
VIEW 3-3

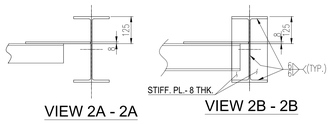


VIEW 4-4



DETAIL - 2 (TYP.)





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	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/08/2019	Gepr.	Contact: %SACHBE%

Basu	07/08/2019	A	Changes as customer remarks

ISO 14405 E ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-20/8C

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_015_R1

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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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET 1 OF 1

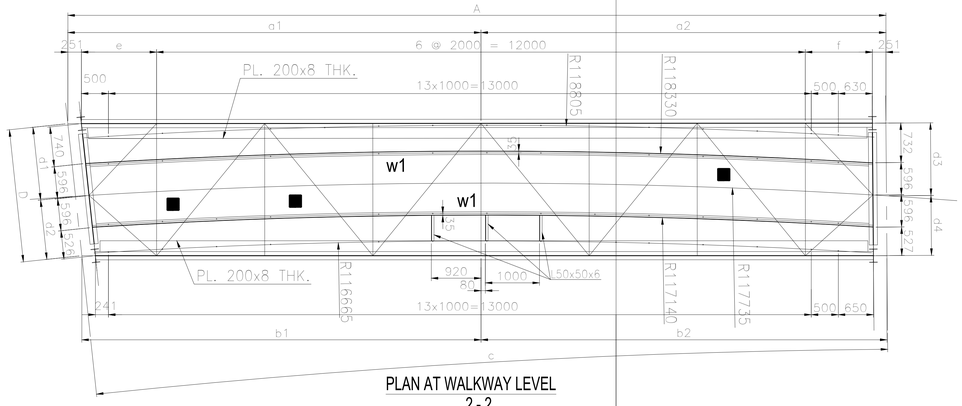
TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES		BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY		SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068
SYSTEM		ANNEX.: – DRAWING NO.:	REV.: 1

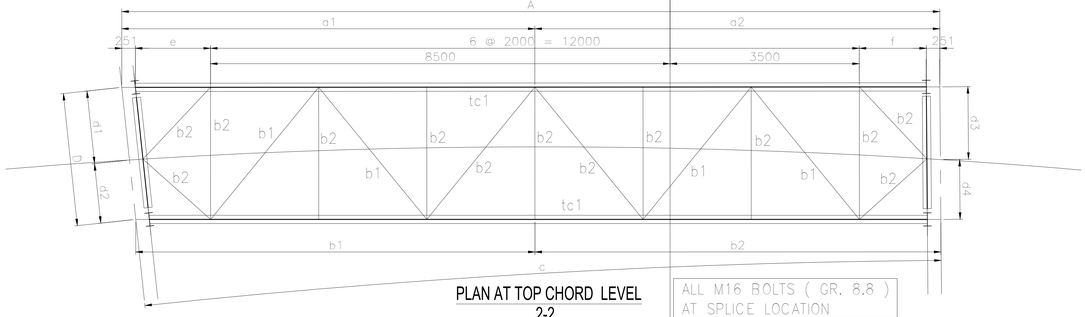
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

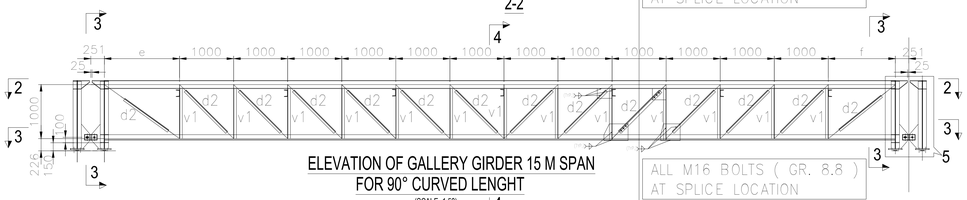


PLAN AT WALKWAY LEVEL
2 - 2



PLAN AT TOP CHORD LEVEL
2-2

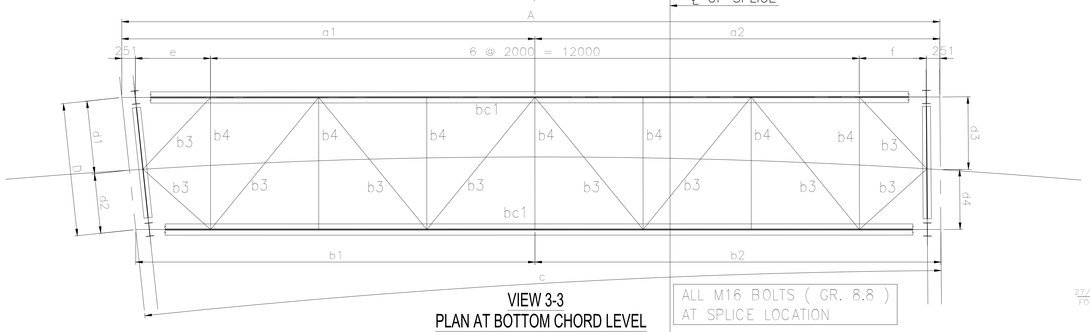
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



ELEVATION OF GALLERY GIRDER 15 M SPAN
FOR 90° CURVED LENGHT
(SCALE -1:50)

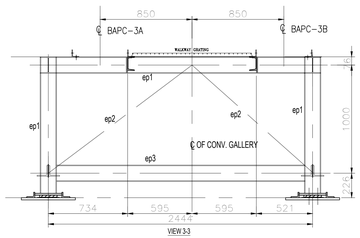
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

℄ OF SPLICE

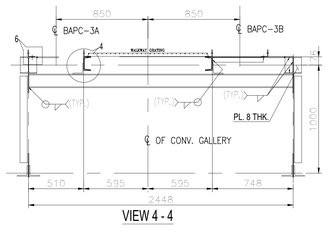


VIEW 3-3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

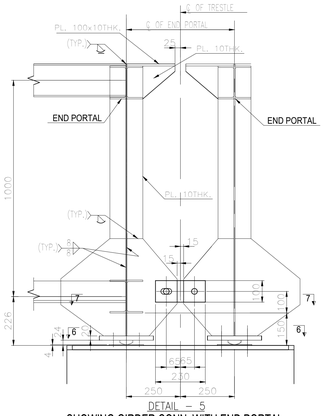
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



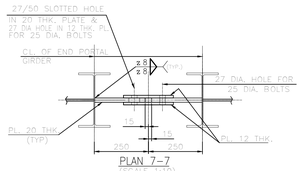
VIEW 3-3



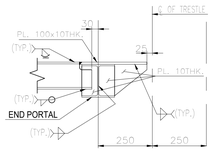
VIEW 4 - 4



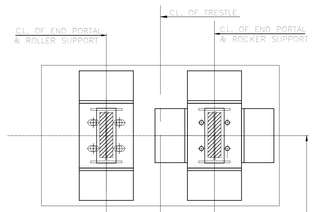
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

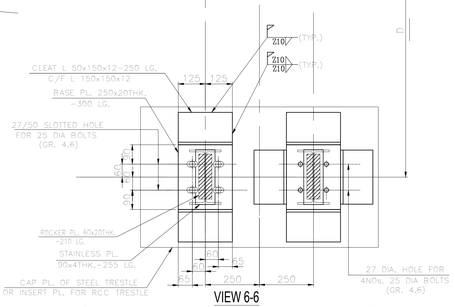


PLAN 7–7
(SCALE 1:10)

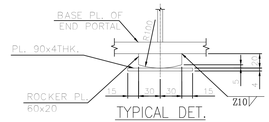


DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

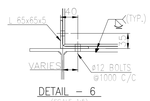




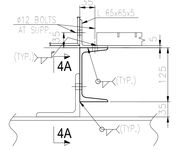
VIEW 6-6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



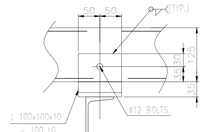
TYPICAL DET.
ROCKER PL.
(SCALE 1:5)



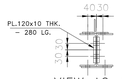
DETAIL – 6
(SCALE 1:5)



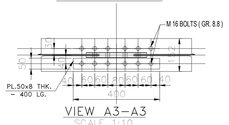
DETAIL – 4
(SCALE 1:5)



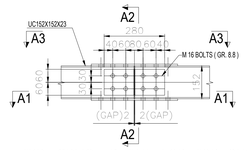
VIEW 4A–4A



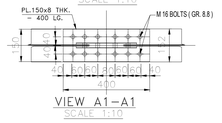
VIEW A2–A2
SCALE 1:10
32 NOS. 16 ø BOLT



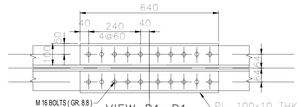
VIEW A3–A3
SCALE 1:10



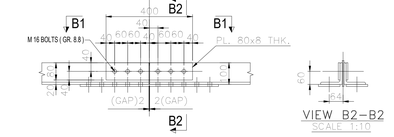
TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10



VIEW A1–A1
SCALE 1:10



VIEW B1–B1
SCALE 1:10



TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

VIEW B2–B2
SCALE 1:10

SCHEDULE OF MEMBERS FOR BAPC 15 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b3	L 65x65x6 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL			
		d2	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 254x146x31	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	FLOORING WITH GRATING.		

BASIC DIMENSION FOR 15M. GALLERIES ON CURVATURE												
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)										
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/21–15C	15132	7642	7490	7384	7508	6°	2457	1351	1106	1344	1108	1390	1240

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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET: 0F
TITLE: STRUCTURAL GA OF BAPC 3A–3B
SUPERSEDES: BHEL JOB NO.: 702
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–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	09/08/2019	Gepr.	Contact: %SACHBE%

E	-	
D	-	
C	-	
B	-	
A	Changes as customer remarks	

Basu 07/08/2019
ISO 14405 E
ISO 13920-A/E
Ind Modification Ref. -
Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF 15M. CURVE. GAL
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_016_R1

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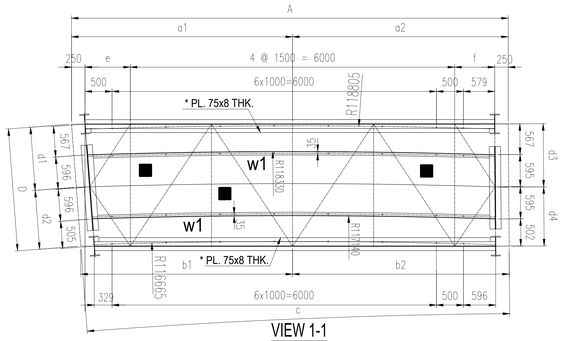
Scale: nts
Sheet/of: 1 / 1
Replacement for: -
Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

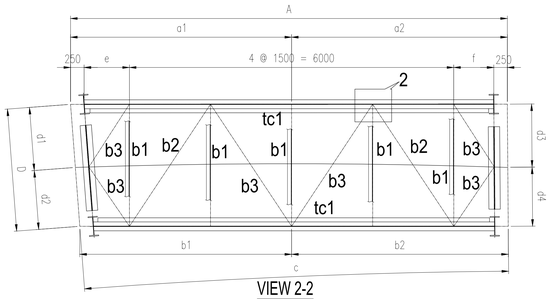
A0 [1189 x 841]



VIEW 1-1

PLAN AT WALKWAY LEVEL

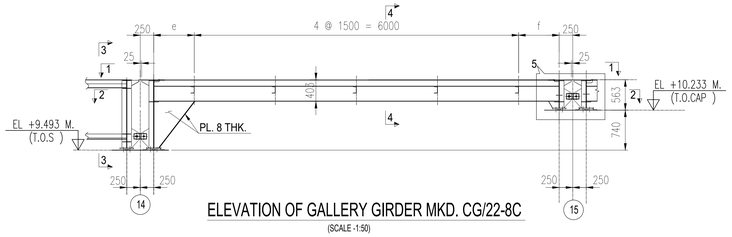
(SCALE -1:50)



VIEW 2-2

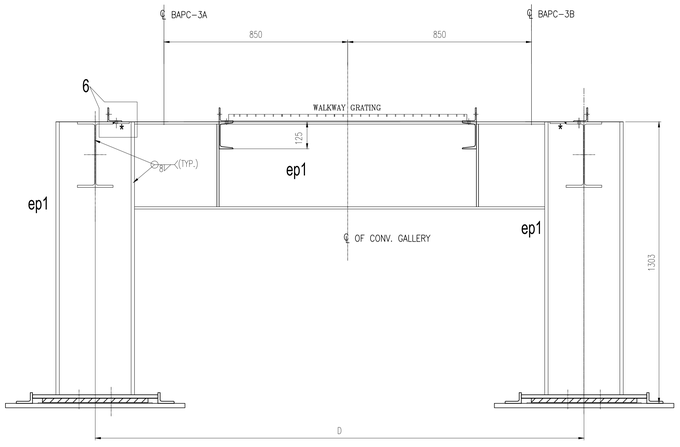
PLAN AT WALKWAY LEVEL

(SCALE -1:50)

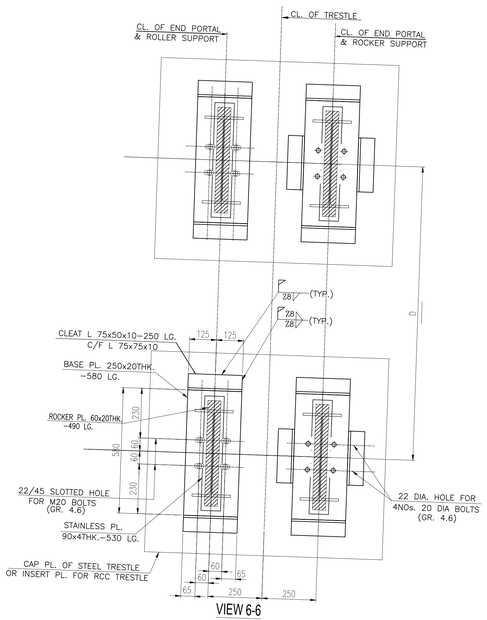


ELEVATION OF GALLERY GIRDER MKD. CG/22-8C

(SCALE -1:50)

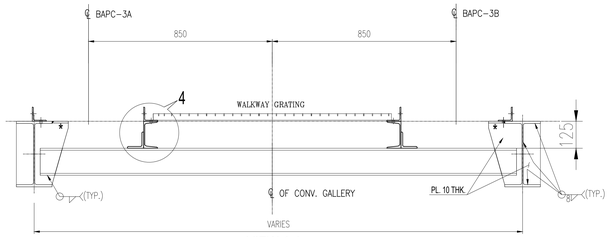


VIEW 3-3

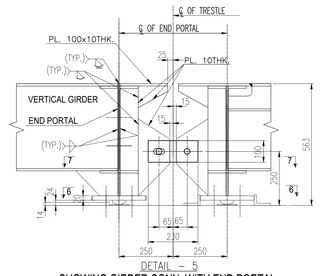


VIEW 6-6

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

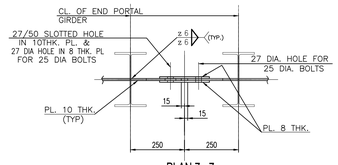


VIEW 4-4



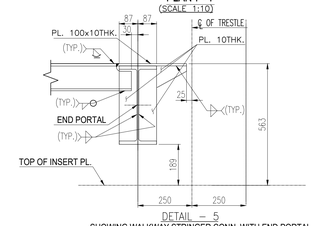
DETAIL – 5

SHOWING GIRDER CONN. WITH END PORTAL



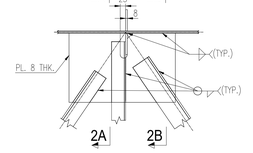
PLAN 7 - 7

(SCALE 1:10)

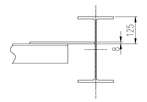


DETAIL – 5

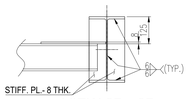
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



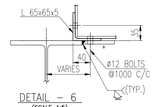
DETAIL - 2 (TYP.)



VIEW 2A - 2A

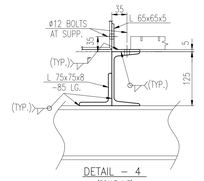


VIEW 2B - 2B



DETAIL – 6

(SCALE 1:5)



DETAIL – 4

(SCALE 1:5)

SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 L	75
		b3	L 65x65x6 L	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

BASIC DIMENSION FOR 8M. GALLERIES ON CURVATURE													
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)											
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/22-8C	8115	4124	3991	3886	4007	6°	2269	1174	1095	1168	1093	872	741

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

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/08/2019	Gepr.	Contact: %SACHBE%

		E	-
		D	-
		C	-
		B	-
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind.	Modification Ref.: -
ISO 13920-A/E			Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-22/8C

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_017_R1

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Scale: mls

Sheet/of: 1 / 1

Replacement for: -

Replaced by: -

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES

SUPERSEDED BY

SYSTEM

BHEL JOB NO.: 702

STATUS OF DRG.: FOR APPROVAL

SIZE- A0 [1189 x 841]

PROJECT NO.: 618-450068

ANNEX.: –

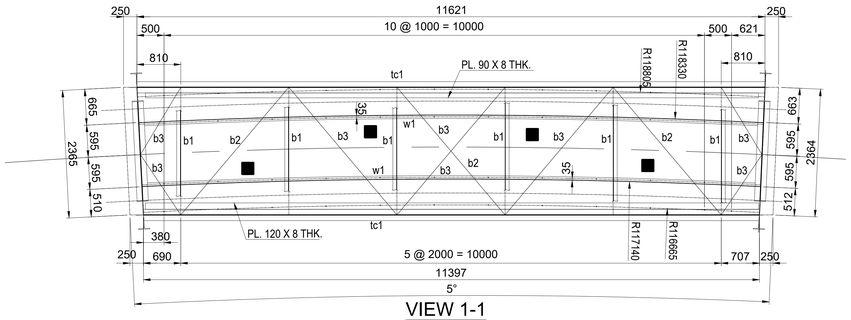
DRAWING NO.:

REV.: 1

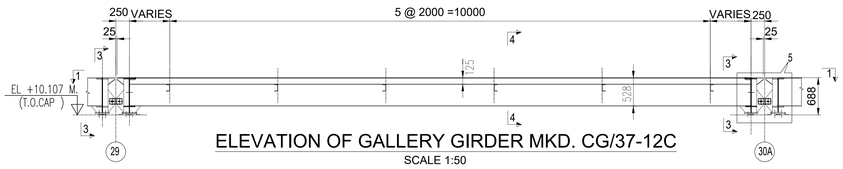
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

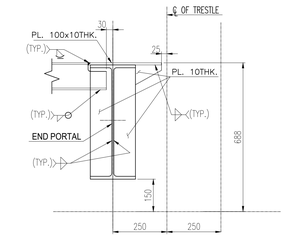
A0 [1189 x 841]



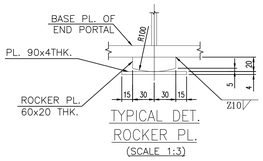
VIEW 1-1
SCALE 1:50



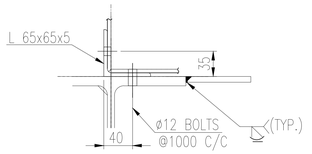
ELEVATION OF GALLERY GIRDER MKD. CG/37-12C
SCALE 1:50



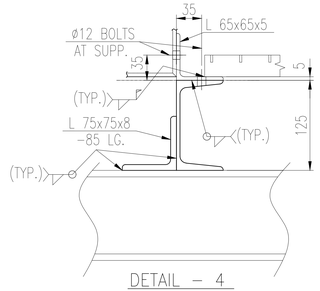
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



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

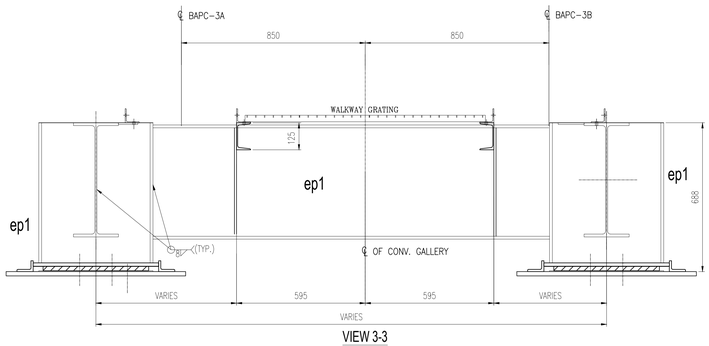


DETAIL – 6
(SCALE 1:5)

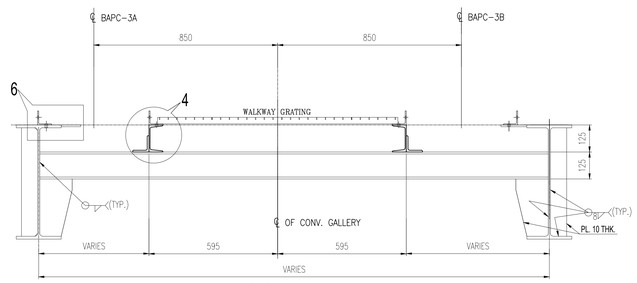


DETAIL – 4
(SCALE 1:5)

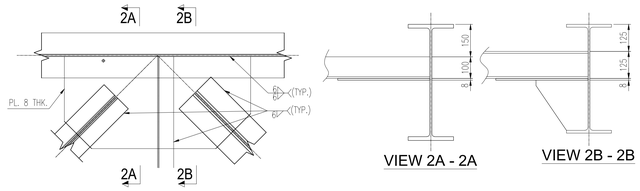
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊢	80
		b3	2Ls 75x75x8 ⊢	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



VIEW 3-3



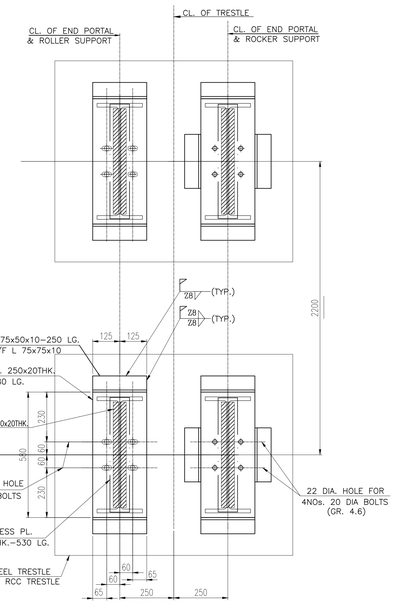
VIEW 4-4



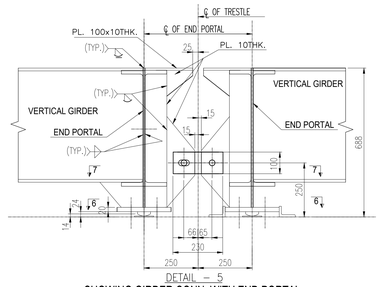
DETAIL - 2 (TYP.)

VIEW 2A - 2A

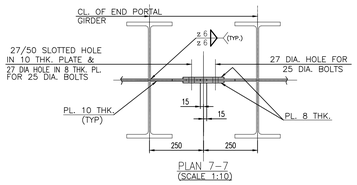
VIEW 2B - 2B



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



DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



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

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SCALE NTS | SHEET 1 OF 1

SUPERSEDES | BHEL JOB NO.: 702 | 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–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/08/2019	Gepr.	Contact:	%SACHBE%
Basu	07/08/2019	A	Changes as customer remarks	

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

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-37/12C BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_018_R1

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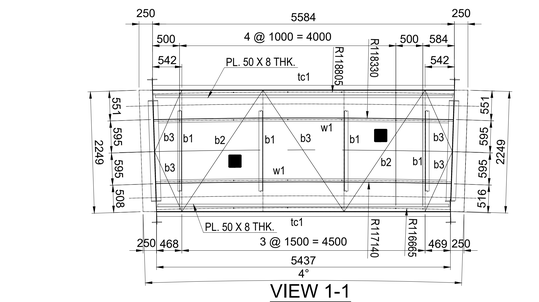
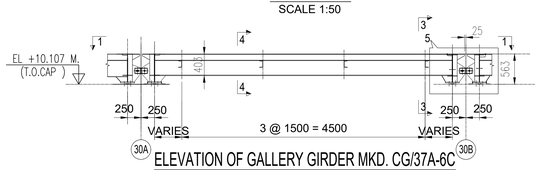
Scale: nts | Sheet/of 1 / 1 | Replacement for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

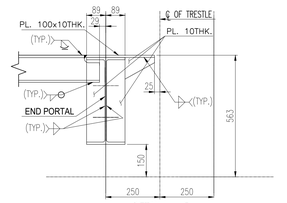
A1 [189 x 841]



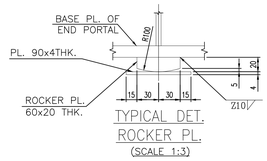
VIEW 1-1
SCALE 1:50



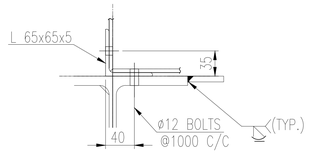
ELEVATION OF GALLERY GIRDER MKD. CG/37A-6C
SCALE 1:50



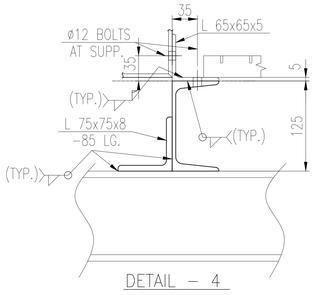
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



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

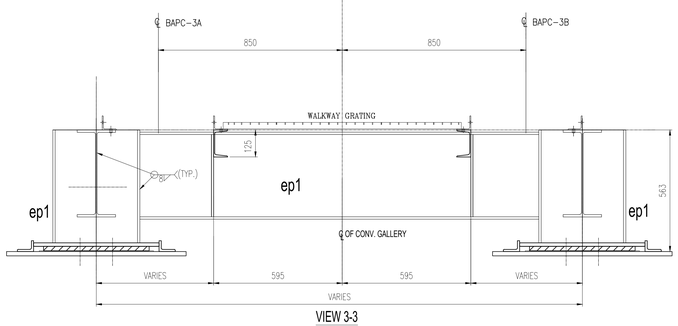


DETAIL – 6
(SCALE 1:5)

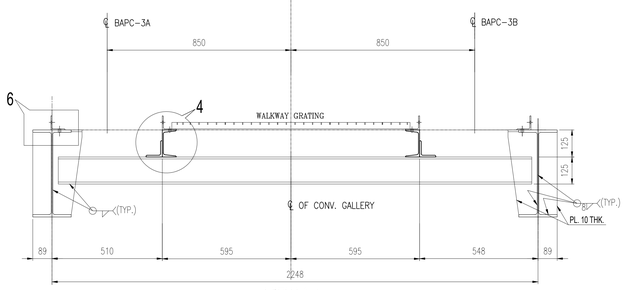


DETAIL – 4
(SCALE 1:5)

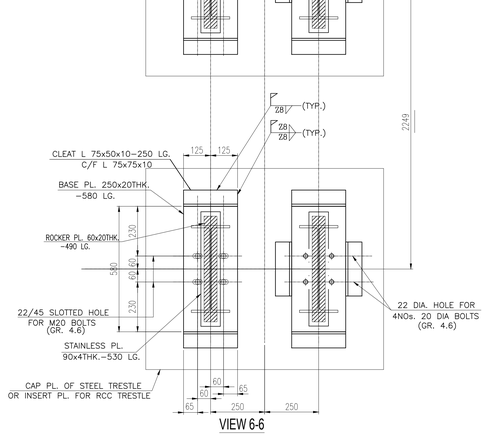
SCHEDULE OF MEMBERS FOR BAPC GALLERY MKD.–CG/37A				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN)
				AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



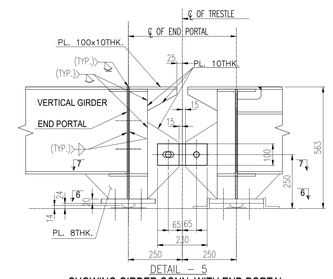
VIEW 3-3



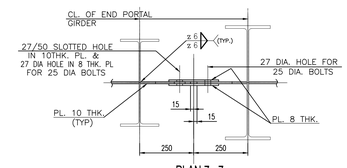
VIEW 4-4



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



DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



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	04/05/2019	Issued	Tech.Pos.: -	Designation	STRUCTURAL GA OF CG-37A/6C
Mallick	06/06/2019	Gegr.	Contact: %SACHBE%		BAPC 3A/B
		E	-	Drawing No.	S18_45068_BAPC 3AB_LD_019_R1
		D	-		
		C	-		
		B	-		
Basu	07/08/2019	A	Changes as customer remarks	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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

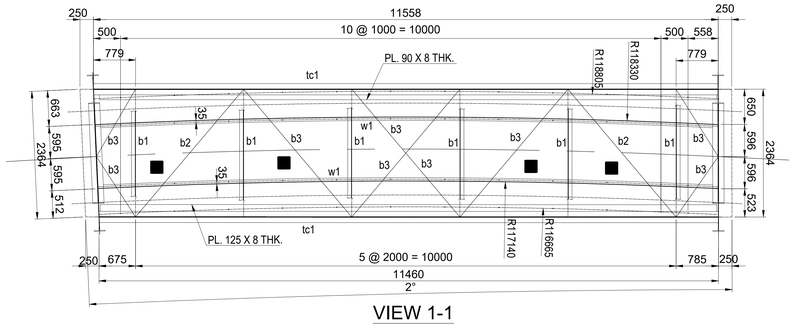
SCALE NTS
SHEET 1
OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

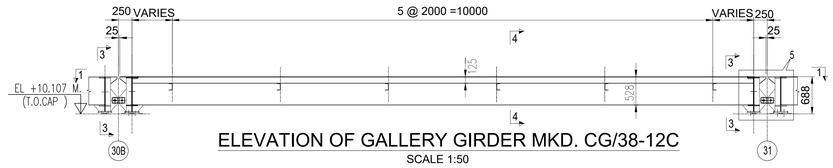
SUPERSEDES	BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.:	REV.: 1
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0		

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

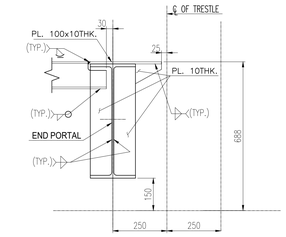
A0 [1189 x 841]



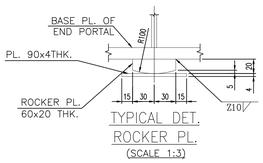
VIEW 1-1
SCALE 1:50



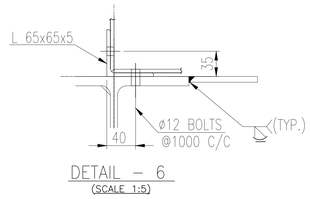
ELEVATION OF GALLERY GIRDER MKD. CG/38-12C
SCALE 1:50



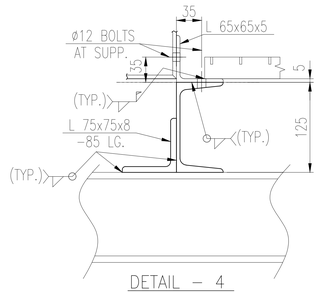
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



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

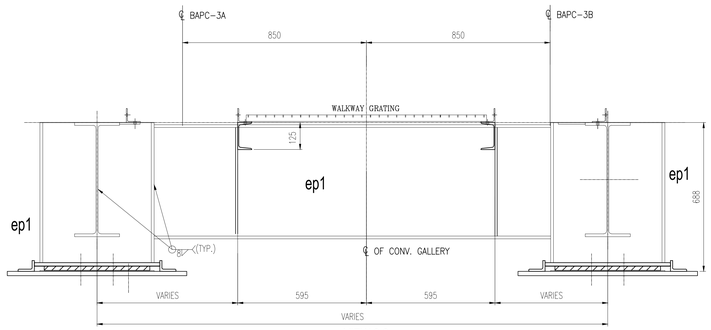


DETAIL – 6
(SCALE 1:5)

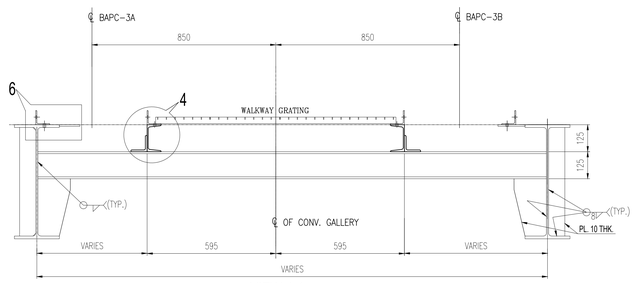


DETAIL – 4
(SCALE 1:5)

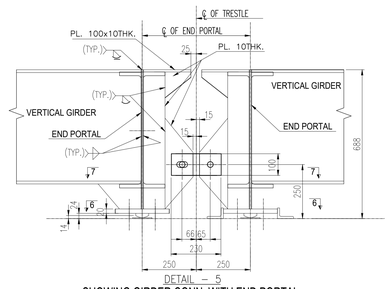
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ┬┴	80
		b3	2Ls 75x75x8 ┬┴	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



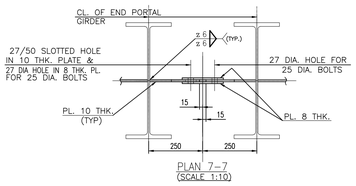
VIEW 3-3



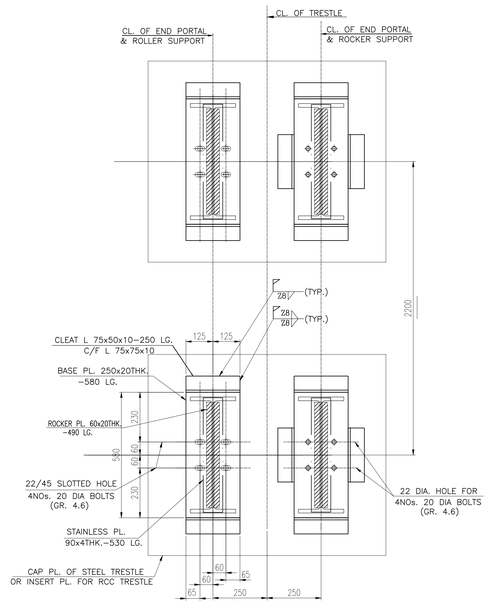
VIEW 4-4



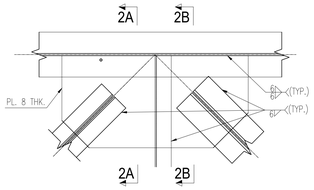
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



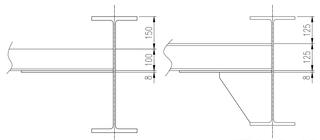
PLAN 7–7
(SCALE 1:10)



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



DETAIL - 2 (TYP.)



VIEW 2A - 2A

VIEW 2B - 2B

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	04/05/2019	Issued	Tech.Pos.: -
Mallick	05/08/2019	Gspr.	Contact: %SACHBE%
		E	-
		D	-
		C	-
		B	-
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-AVE			

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-38/12C

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_020_R1

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Scale: nts

Sheet/of: 1 / 1

Ref.: -

Origin: -

Replacement for: -

Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

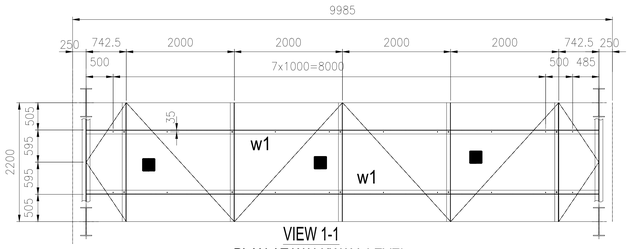
SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

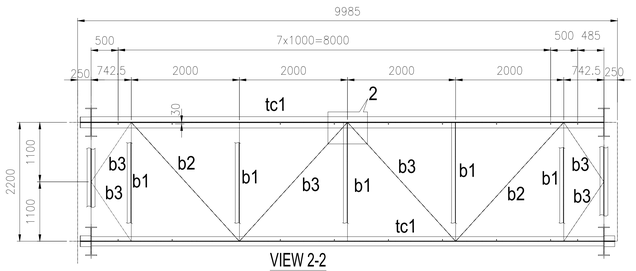
SUPERSEDES	BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL	
SUPERSEDED BY	SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068	
SYSTEM	ANNEX.: –	DRAWING NO.:	REV.: 1
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0		

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

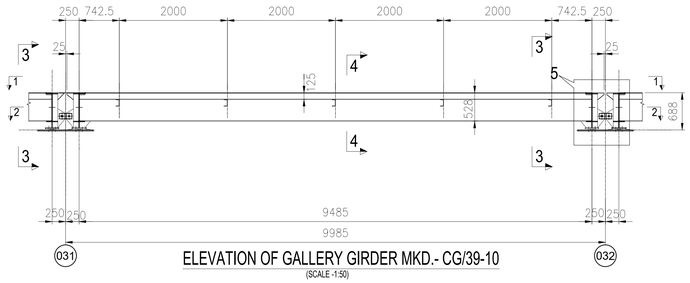
A0 [1189 x 841]



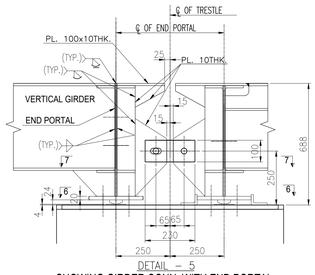
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



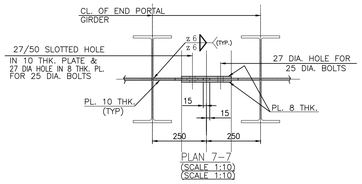
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



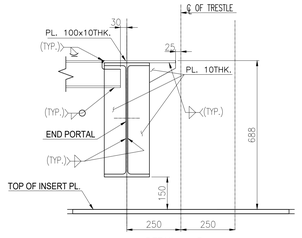
ELEVATION OF GALLERY GIRDER MKD.- CG/39-10
(SCALE -1:50)



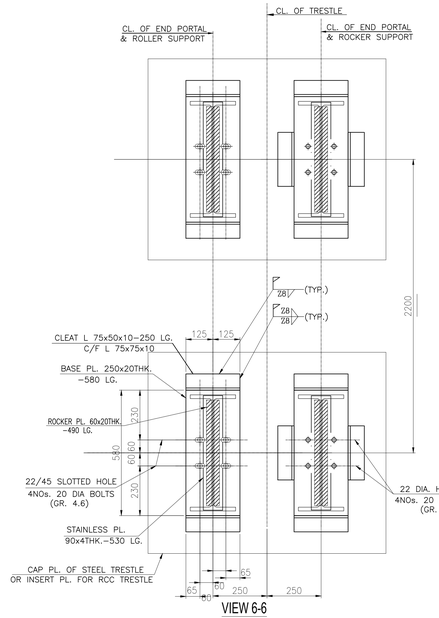
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



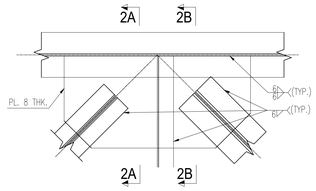
PLAN 7–7
(SCALE 1:10)
(SCALE 1:10)



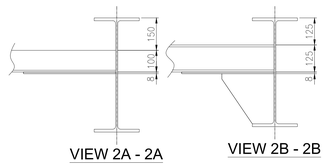
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



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

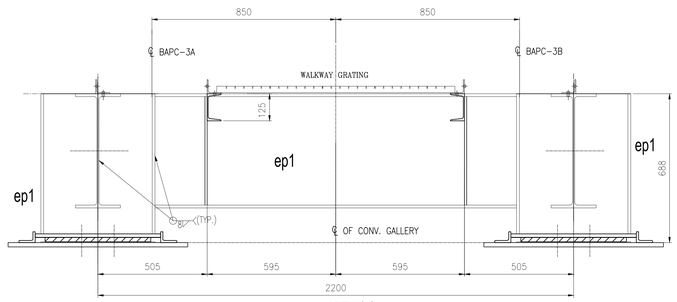


DETAIL - 2 (TYP.)

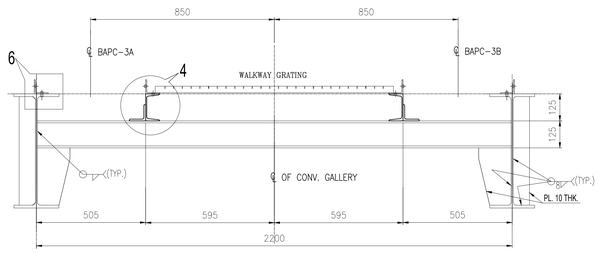


VIEW 2A - 2A
VIEW 2B - 2B

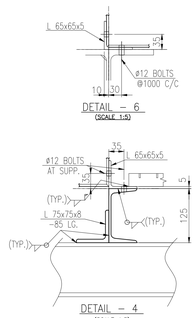
SCHEDULE OF MEMBERS FOR BAPC CG/41–9.9 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



VIEW 3-3

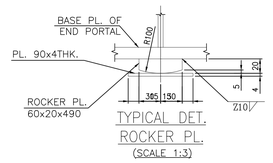


VIEW 4-4



DETAIL – 6
(SCALE 1:5)

DETAIL – 4
(SCALE 1:5)



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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.:
REV.: 1

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/08/2019	Gepr.	Contact:	%SACHBE%

E	-		
D	-		
C	-		
B	-		
A	Changes as customer remarks		
ind	Modification	Ref.	-
		Origin	-

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF GALLERY CG-39/10 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_021_R1

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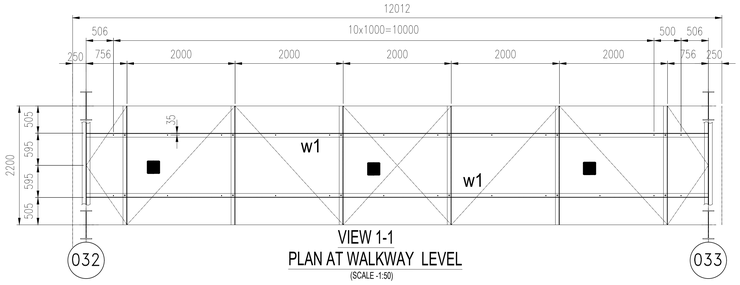
Scale: nts | Sheetsize: 1 / 1

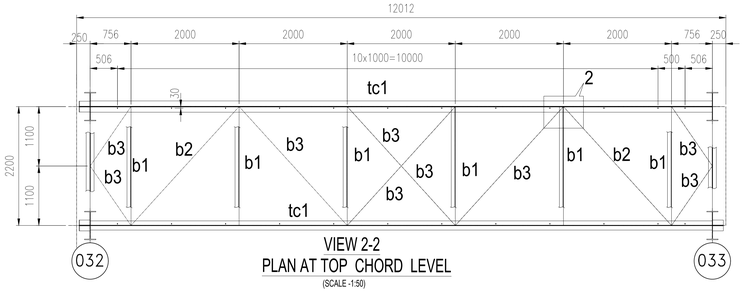
ISO 14405 ISO 13920-A/E | Replacement for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

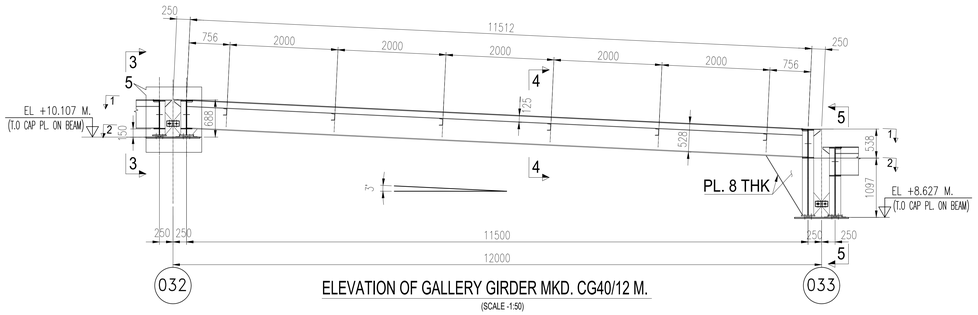
A0 [1189 x 841]



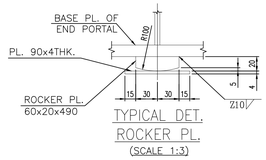
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



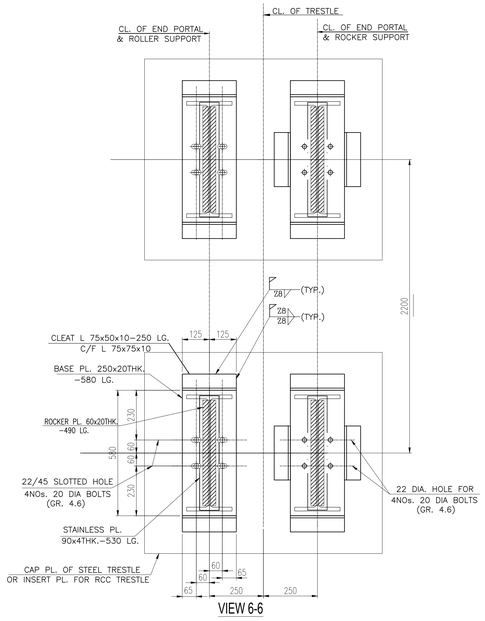
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



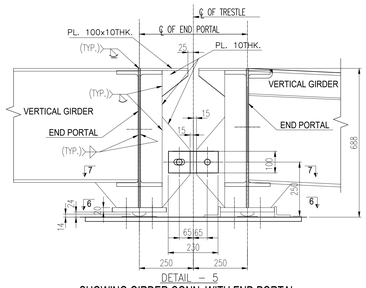
ELEVATION OF GALLERY GIRDER MKD. CG40/12 M.
(SCALE -1:50)



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

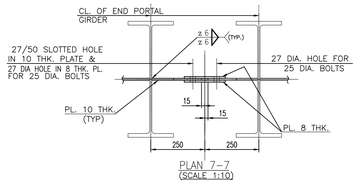


VIEW 6-6

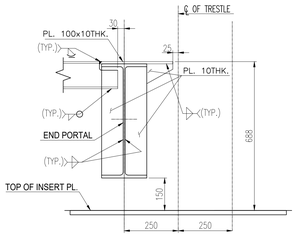


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

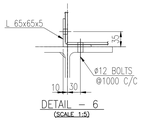
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	



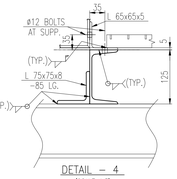
PLAN 7-7
(SCALE 1:10)



DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



DETAIL – 6
(SCALE 1:5)



DETAIL – 4
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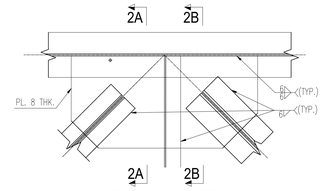
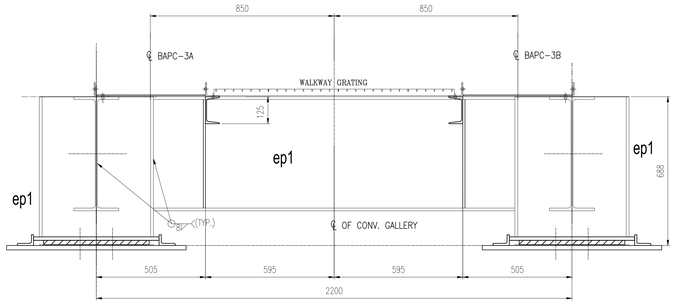
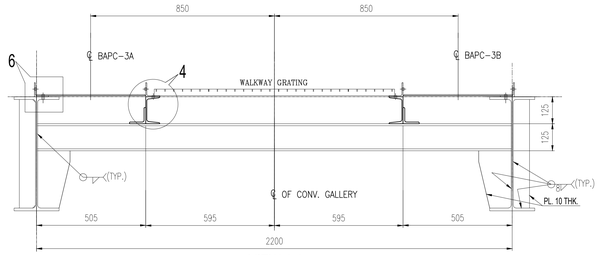


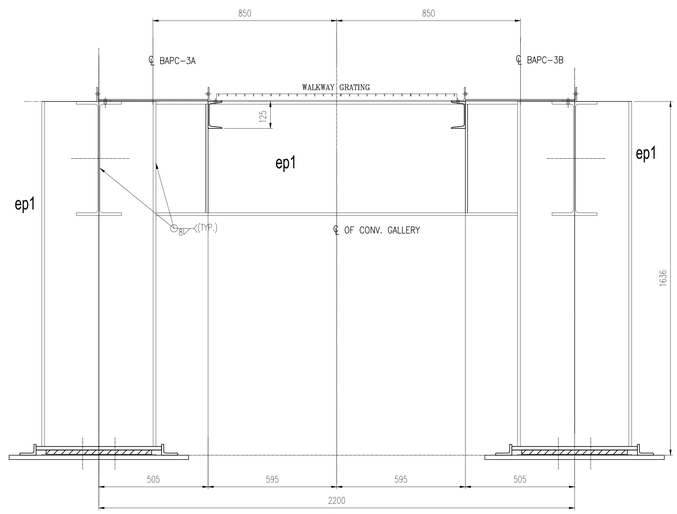
DETAIL - 2 (TYP.)



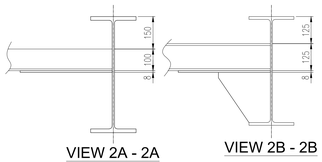
VIEW 3-3



VIEW 4-4



VIEW 5-5



NOTES :

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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	04/05/2019	Issued	Tech.Pos.:	-	
Mallick	06/08/2019	Gepr.	Contact:	%SACHBE%	
-		E	-		
-		D	-		
-		C	-		
-		B	-		
Basu	07/08/2019	A	Changes as customer remarks		
ISO 14405 ⊕		Ind	Modification	Ref.: -	
ISO 13920-A/E			Origin	-	

Customer	BHARAT HEAVY ELECTRICALS LTD.
Designation	STRUCTURAL GA OF CG-40/12 BAPC 3A/B
Drawing No.	S18_45068_BAPC 3AB_LD_022_R1
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	Sheet/of: 1 / 1
-	Replacement for: -
-	Replaced by: -

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

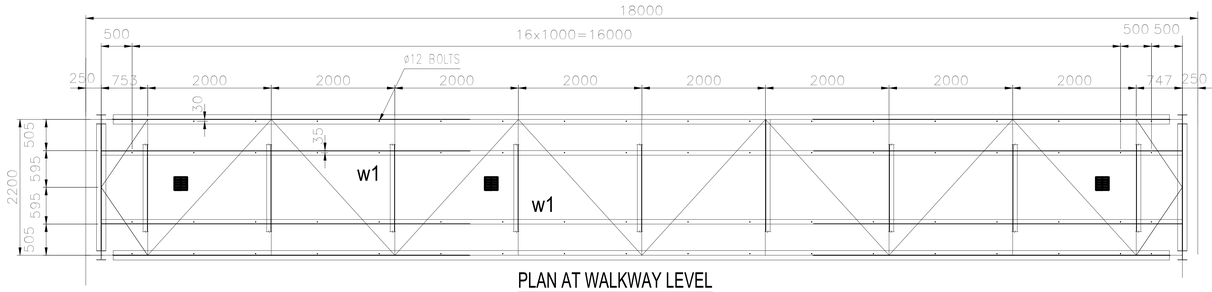
	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET: 1
OF: 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B

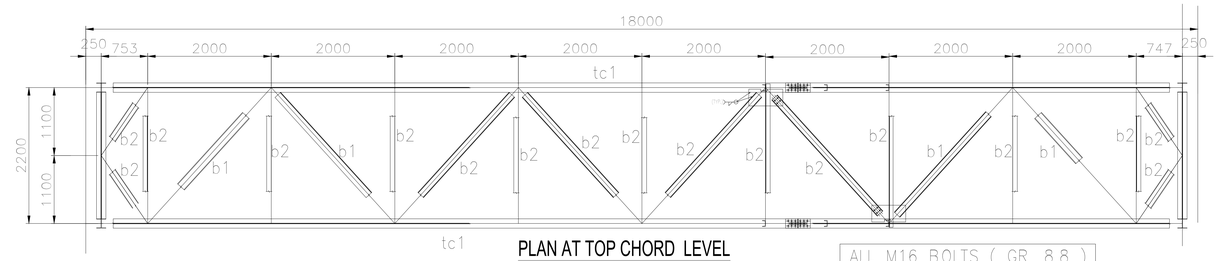
SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.:
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-0

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]

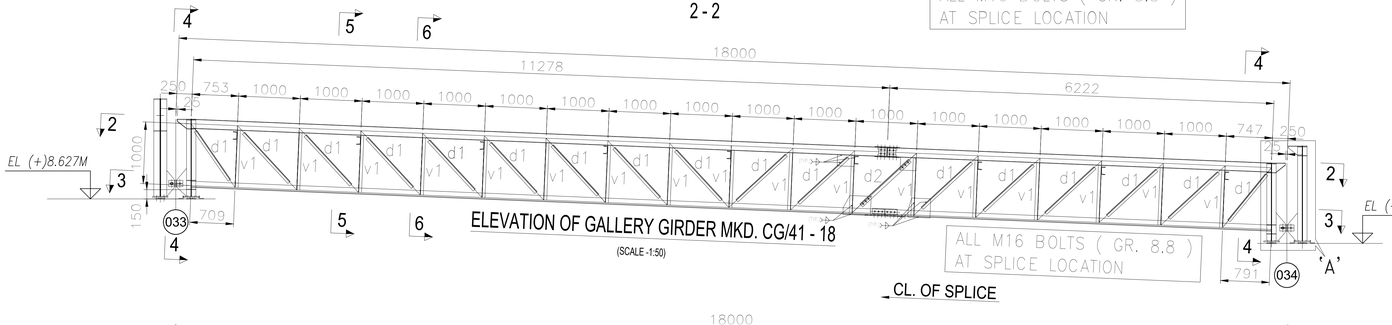


PLAN AT WALKWAY LEVEL
2 - 2



PLAN AT TOP CHORD LEVEL
2 - 2

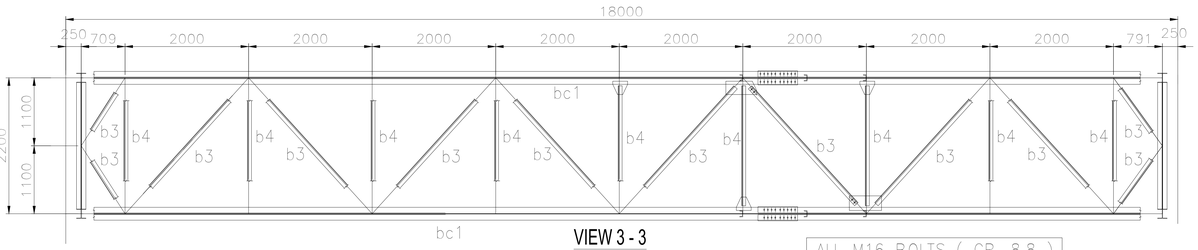
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



ELEVATION OF GALLERY GIRDER MKD. CG/41 - 18
(SCALE -1:50)

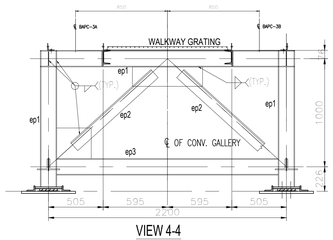
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

CL. OF SPLICE

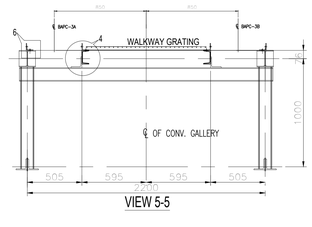


VIEW 3 - 3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

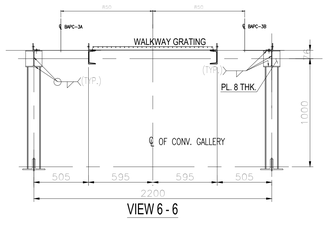
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



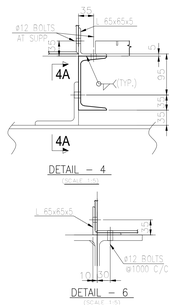
VIEW 4-4

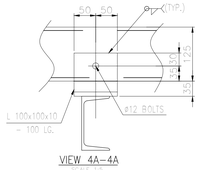


VIEW 5-5

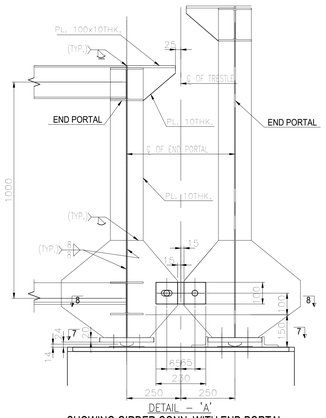


VIEW 6 - 6

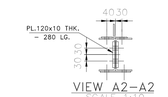




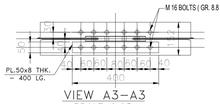
VIEW 4A–4A



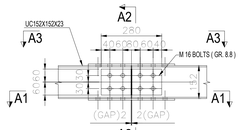
DETAIL – 'A'
SHOWING GIRDER CONN. WITH END PORTAL



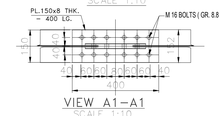
VIEW A2–A2
SCALE 1:10
32 NOS. 16 Ø BOLT



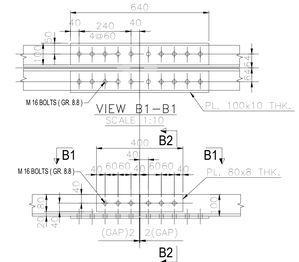
VIEW A3–A3
SCALE 1:10



TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10

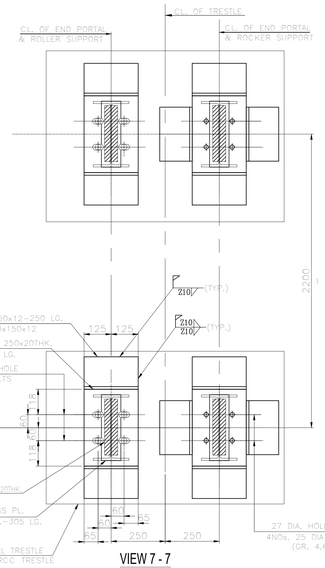


VIEW A1–A1
SCALE 1:10

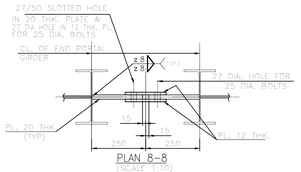


TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

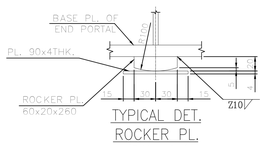
VIEW B2–B2
SCALE 1:10



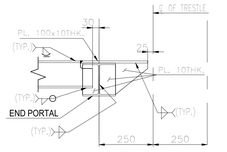
VIEW 7 - 7
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



PLAN 8–8
(SCALE 1:10)



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



DETAIL – 'A'
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

SCHEDULE OF MEMBERS FOR BAPC 18 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 75x75x8 ⌞	20
		b4	L 50x50x6 ⌞	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	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. 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	04/05/2019	Issued	Tech.Pos.: -
Mallick	08/06/2019	Gegr.	Contact: %SACHBE%

		E	
		D	
		C	
		B	
Basu	07/06/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification Ref.: -
ISO 13920-A/E			Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-41/18 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_023_R1

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Scale: n/a
Sheet/of 1 / 1

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

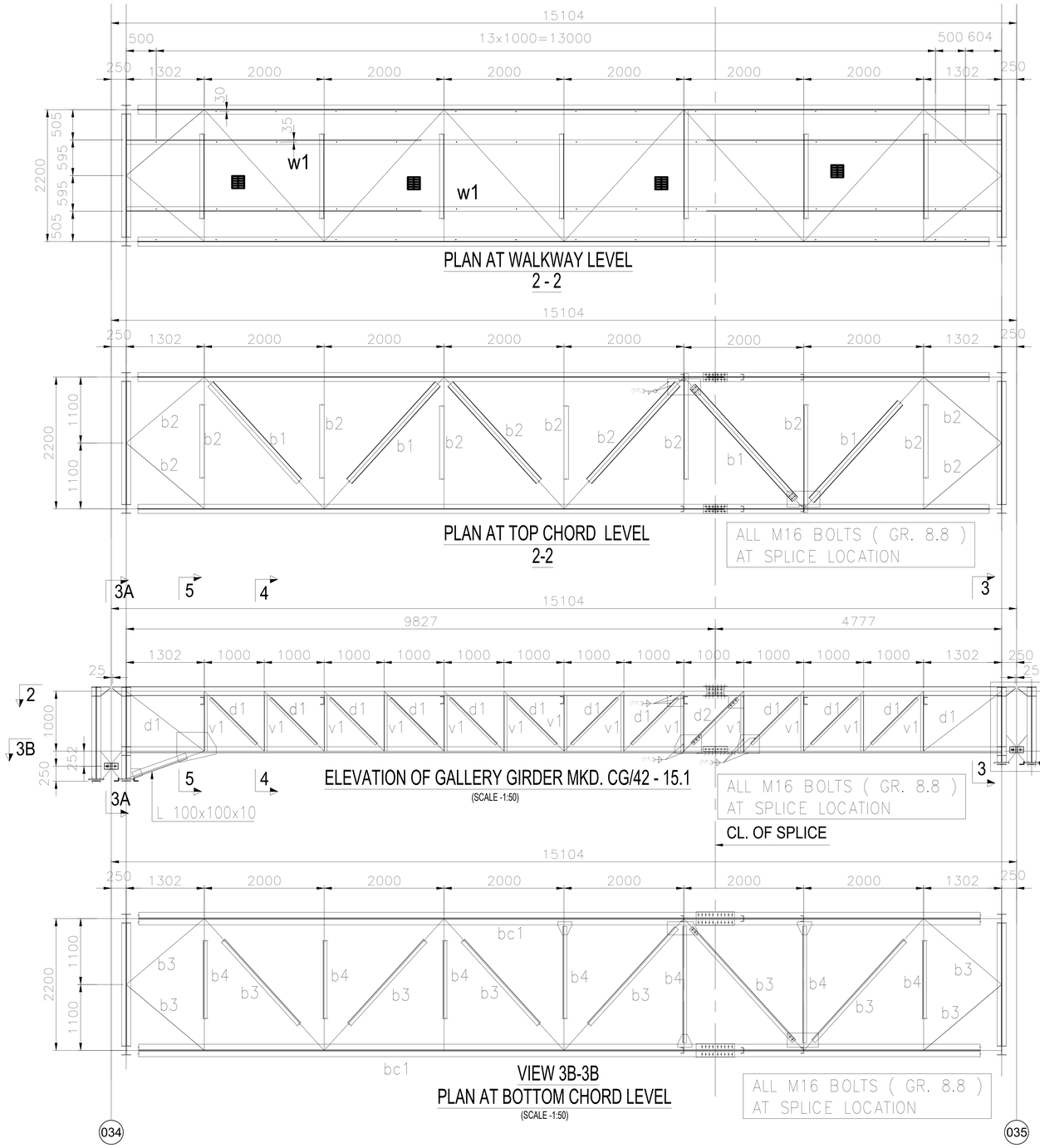
SCALE: NTS
SHEET: 1
OF: 1

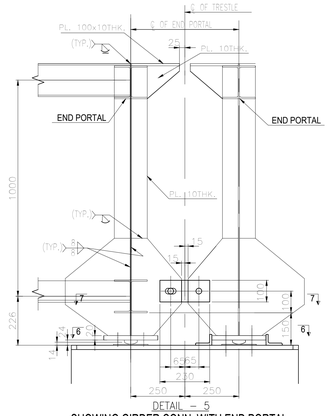
TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	STATUS OF DRG.: FOR APPROVAL
SYSTEM	SIZE– A0 [1189 x 841]
	PROJECT NO.: 618–450068
	ANNEX.: –
	DRAWING NO.:
	REV.: 1
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0

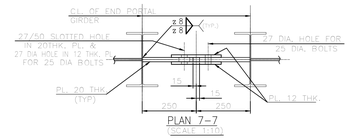
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

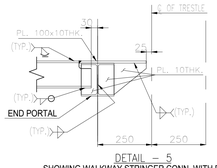




DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

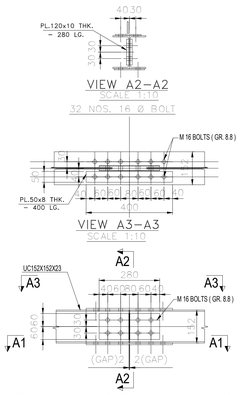


PLAN 7–7
(SCALE 1:10)

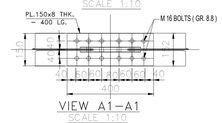


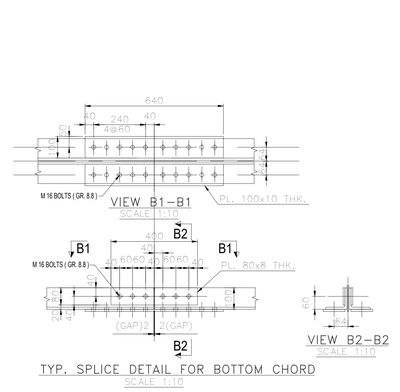
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

SCHEDULE OF MEMBERS FOR BAPC 15.104 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b3	L 75x75x8 ⌞	20
		b4	L 50x50x6 ⌞	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥	180
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	2Ls 75x75x8 ⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	FLOORING WITH GRATING.		



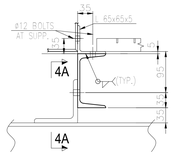
TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10

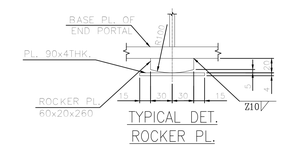




TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

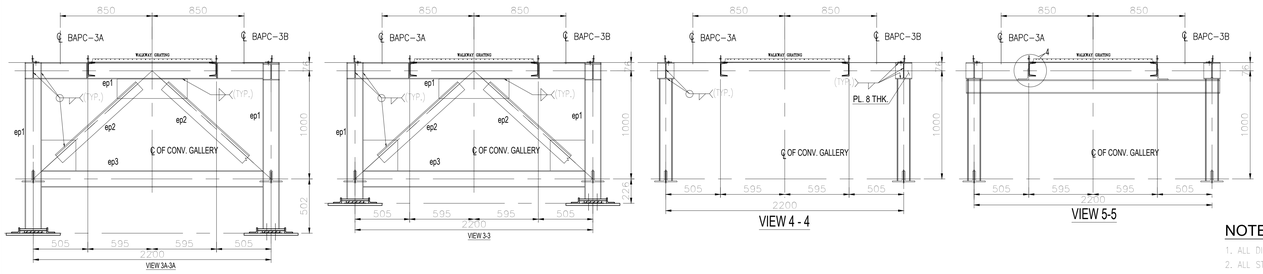
VIEW B2–B2
SCALE 1:10





VIEW 6-6

(NOTE: 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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/08/2019	Gegr.	Contact:	%SACHBE%

E			
D			
C			
B			
A	Changes as customer remarks	Basu	07/08/2019
Ind	Modification	Ref.:	-

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-42/15.1 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_024_R1

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Origin: - Replacement for: - Replaced by: -

Scale: nts

Sheet/of: 1 / 1

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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, BAGLADESH

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

	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS

SHEET: 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: – DRAWING NO.:
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0

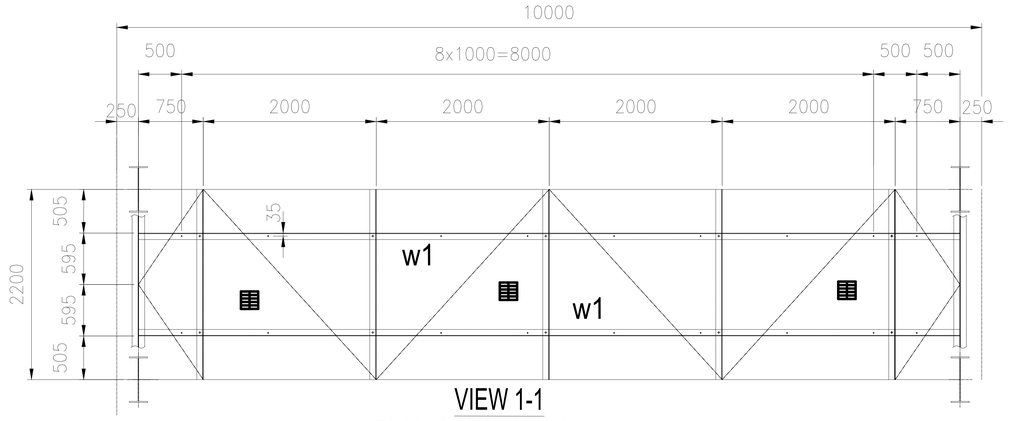
STATUS OF DRG.: FOR APPROVAL

PROJECT NO.: 618–450068

REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

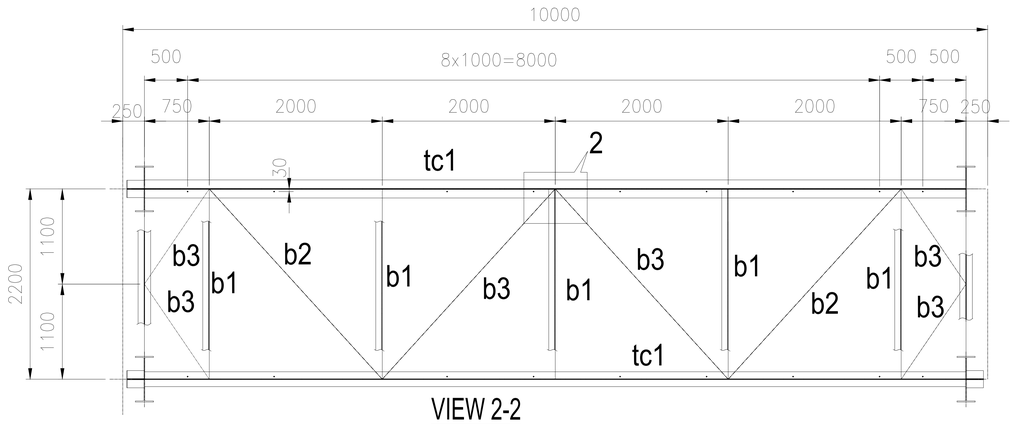
A0 [1189 x 841]



VIEW 1-1

PLAN AT WALKWAY LEVEL

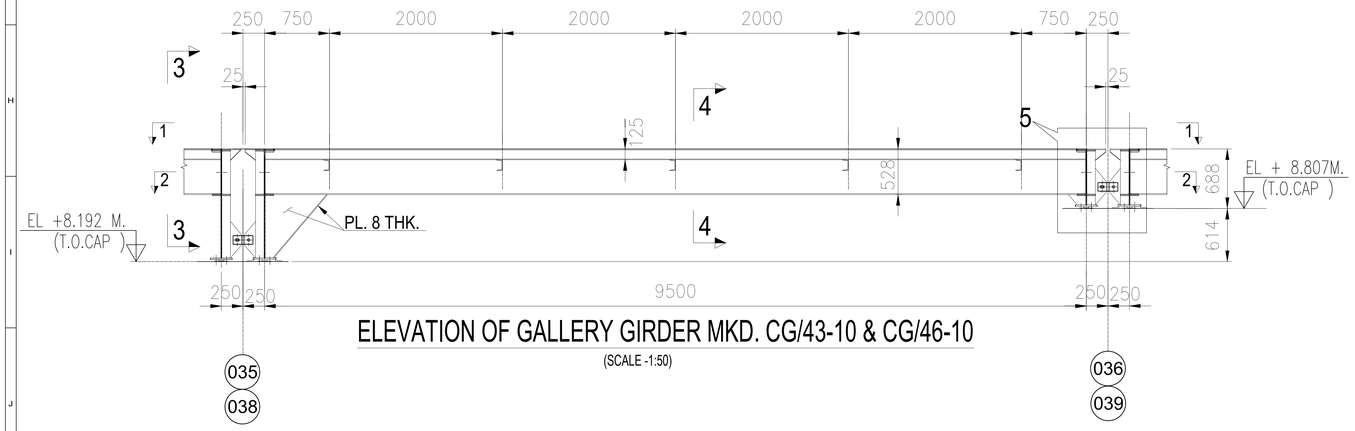
(SCALE -1:50)



VIEW 2-2

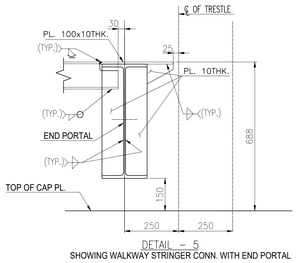
PLAN AT TOP CHORD LEVEL

(SCALE -1:50)



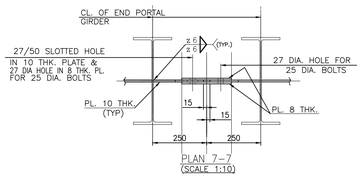
ELEVATION OF GALLERY GIRDER MKD. CG/43-10 & CG/46-10

(SCALE -1:50)



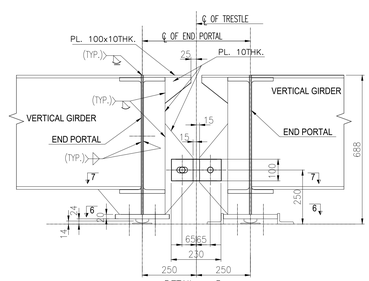
DETAIL – 5

SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



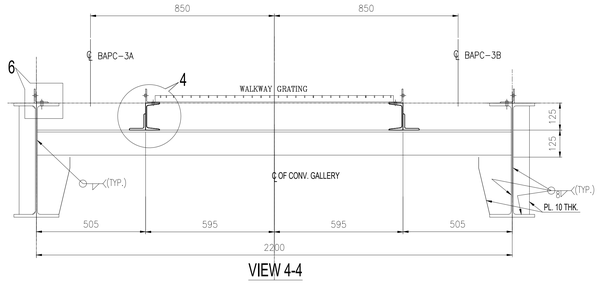
PLAN 7–7

(SCALE 1:10)

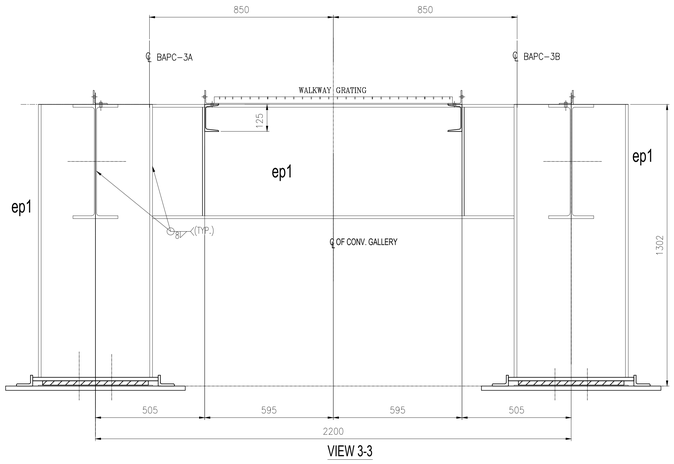


DETAIL – 5

SHOWING GIRDER CONN. WITH END PORTAL

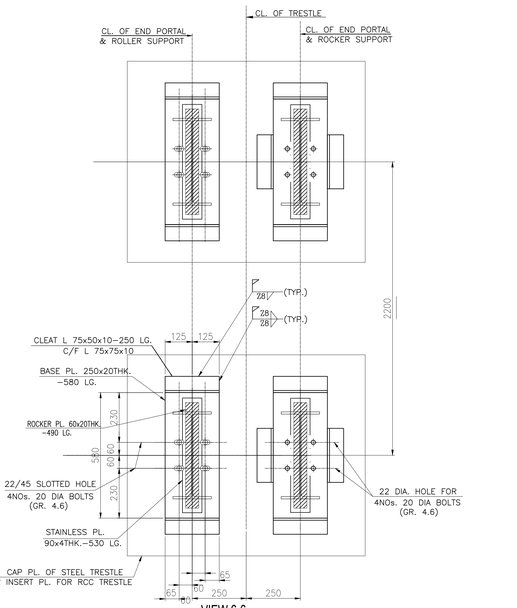


VIEW 4-4

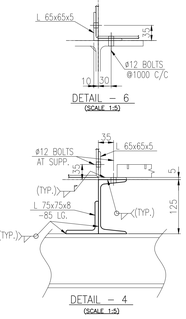


VIEW 3-3

SCHEDULE OF MEMBERS FOR BAPC 10 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



VIEW 6-6



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					Changes as per 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	PACKAGE VENDOR	SCALE
DRN	–	19.06.2019	BEUMER INDIA PVT. LTD.	NTS
CHD	–	19.06.2019	BEUMER Maschinefabrik,Germany	SHEET 1
APPD	–	19.06.2019	TITLE: STRUCTURAL GA OF BAPC 3A–3B	OF 1
SUPERSEDES			BHEL JOB NO.: 702	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–UEU–LC–177430–ISG–0	

BEUMERGROUP

Name	Date	%ATT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/06/2019	Gen.	Contact: %SACHBE%

Rev.	Date/Init.	Changes as customer remarks
A	27/06/2019	Modification Ref.: -

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-43/10 & CG-46/10 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_025_R1

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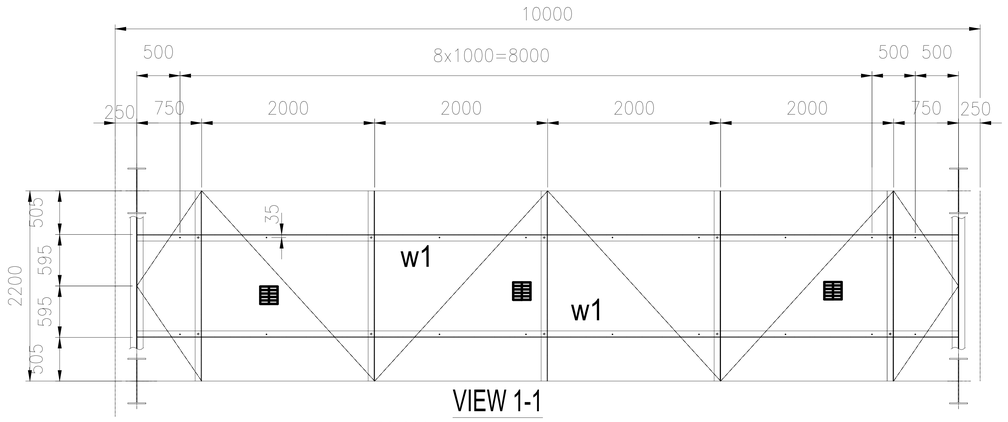
Origin: - Replacement for: - Replaced by: -

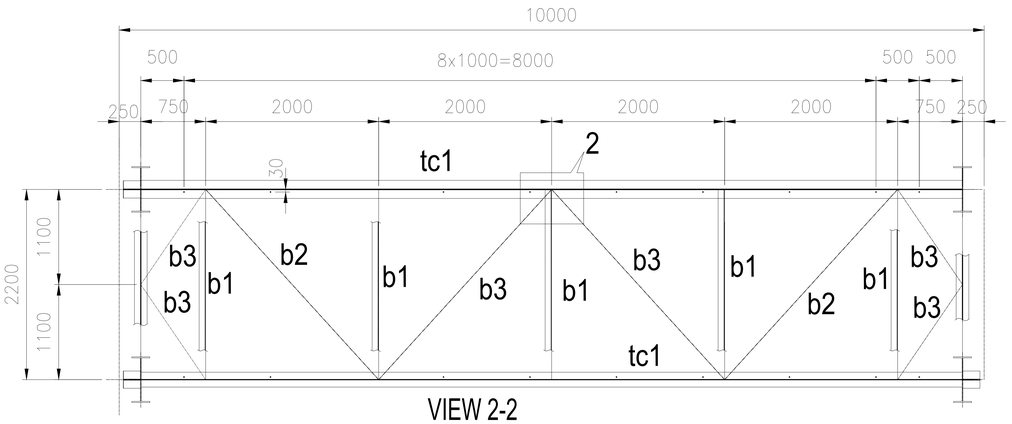
Scale: n/a Sheet/of: 1 / 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

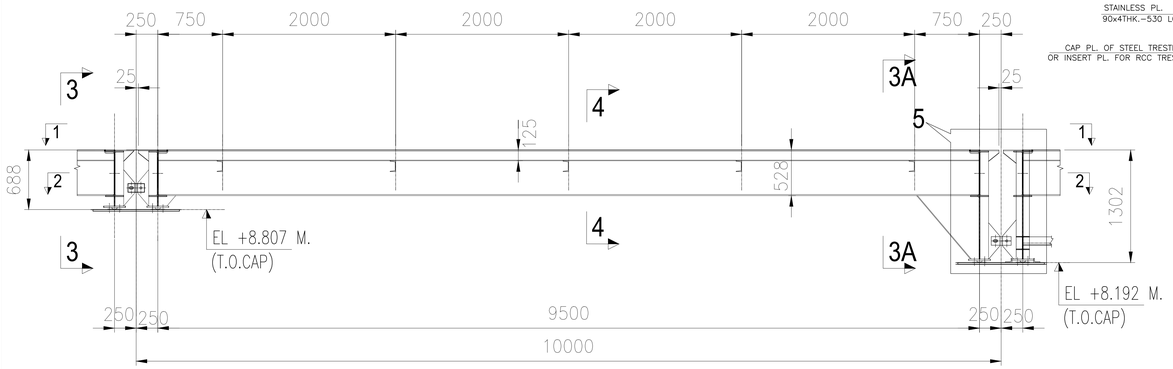
A0 [1189 x 841]



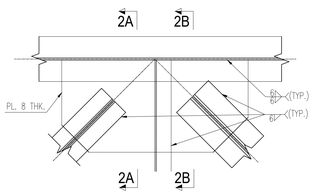
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



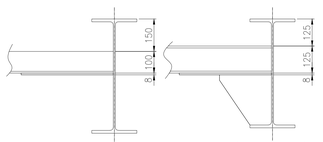
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



ELEVATION OF GALLERY GIRDER 10 M. (CG.44/10)
(SCALE -1:50)

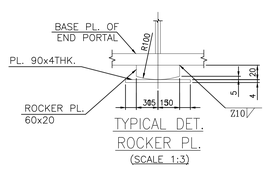


DETAIL - 2 (TYP.)

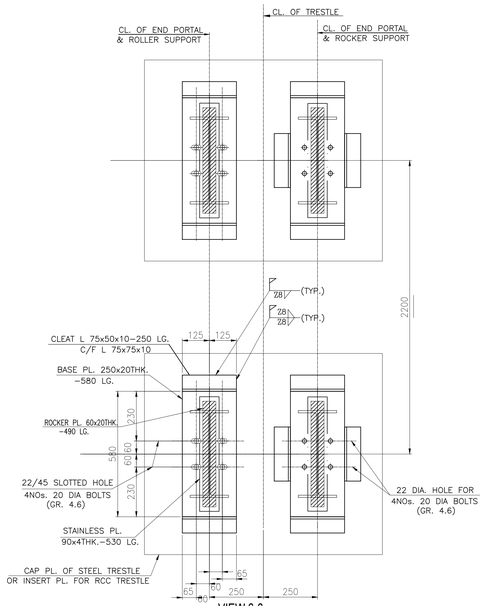


VIEW 2A - 2A

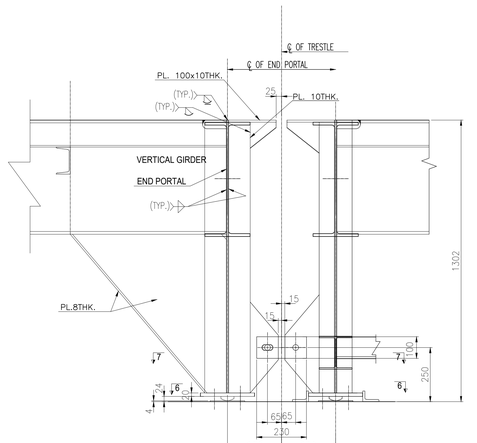
VIEW 2B - 2B



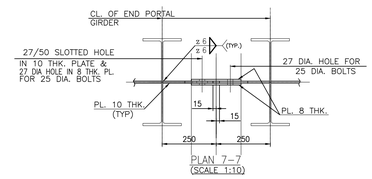
TYPICAL DET. ROCKER PL.
(SCALE 1:3)



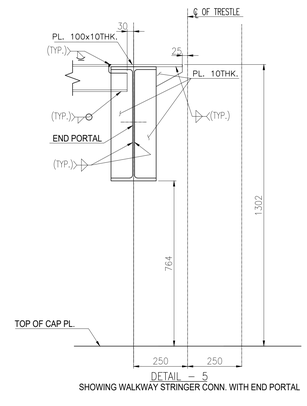
VIEW 6-6



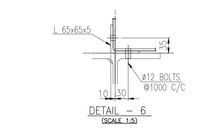
DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL



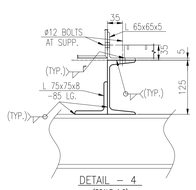
PLAN 7-7
(SCALE 1:10)



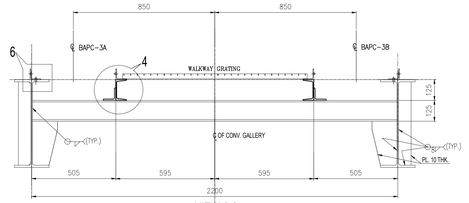
DETAIL - 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



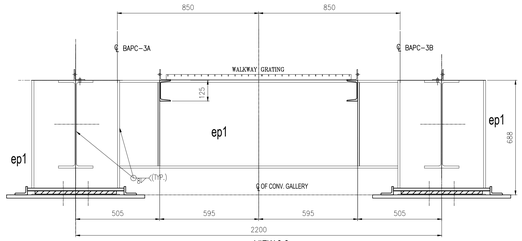
DETAIL - 6
(SCALE 1:5)



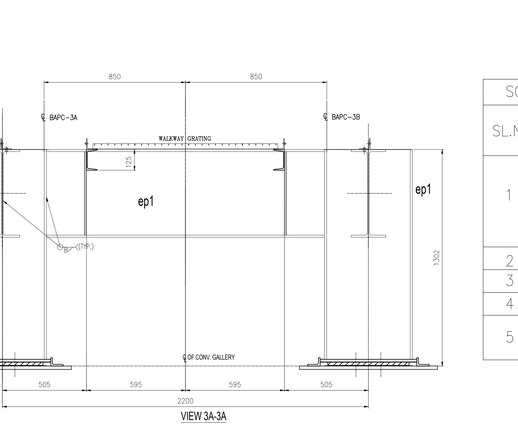
DETAIL - 4
(SCALE 1:5)



VIEW 4-4



VIEW 3-3



VIEW 3A-3A

SCHEDULE OF MEMBERS FOR BAPC 10 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	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. 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	04/05/2019	Issued	Tech.Pos.: -
Mallick	08/08/2019	Gepr.	Contact: %SACHBE%
		E	-
		D	-
		C	-
		B	-
Basu	27/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification Ref.: -
ISO 13920-A/E			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-44/10
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_026_R1

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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					Changes as per comments

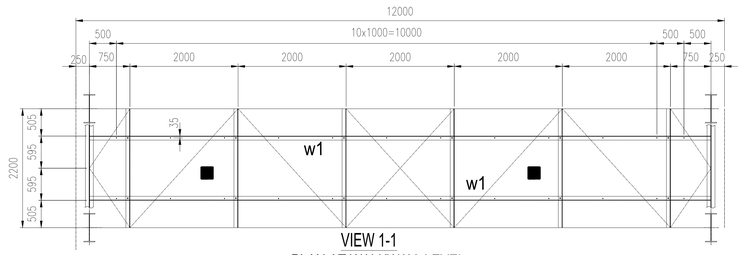
CUSTOMER CONSULTANT: FICHTNER GmbH & Co KG, Stuttgart, GERMANY
CUSTOMER/PROJECT: BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH
EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

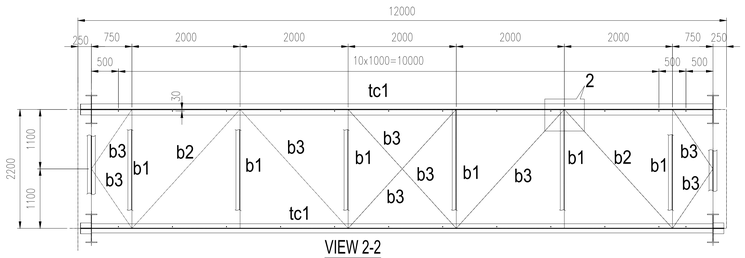
PACKAGE VENDOR: BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET: 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES | BHEL JOB NO.: 702 | STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY | SIZE- A0 [1189 x 841] | PROJECT NO.: 618-450068
SYSTEM | ANNEX.: – | DRAWING NO.: | REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

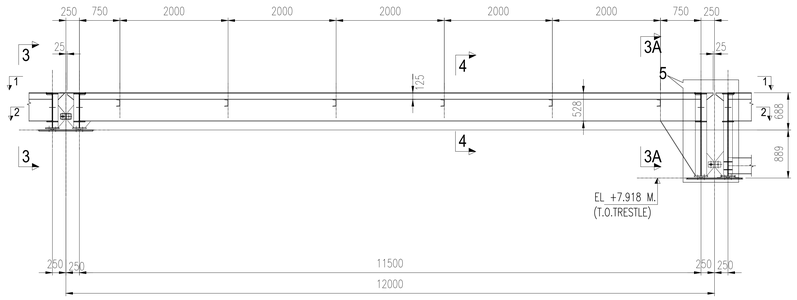
A0 [1189 x 841]



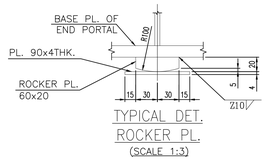
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



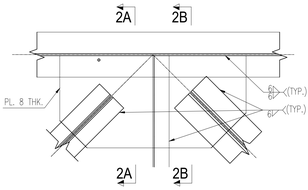
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



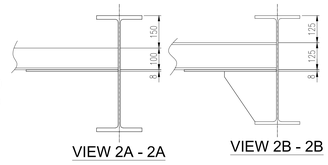
ELEVATION OF GALLERY GIRDER 12 M. (CG-47/12 & CG-54/12)
(SCALE -1:50)



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



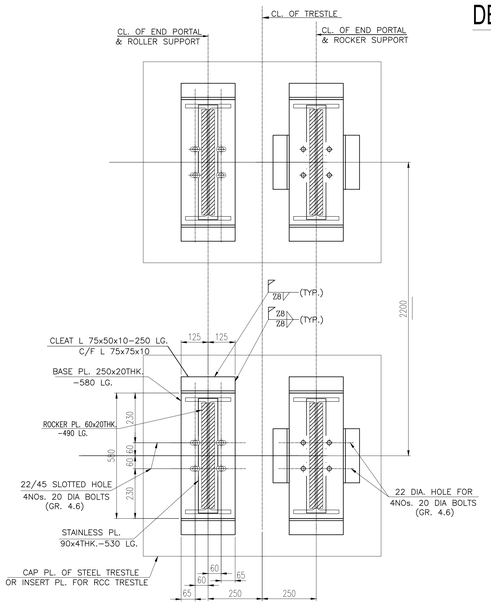
DETAIL - 2 (TYP.)



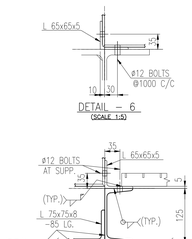
VIEW 2A - 2A

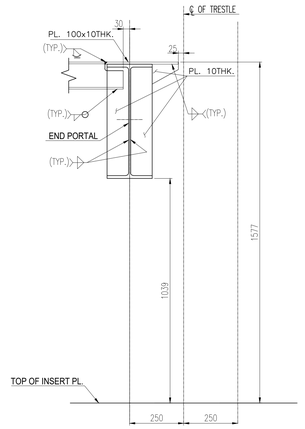
VIEW 2B - 2B

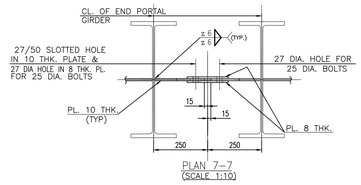
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

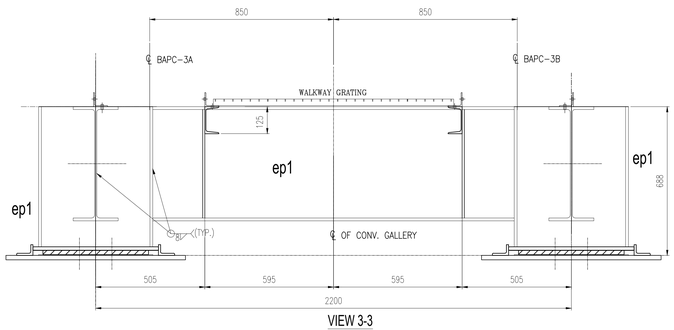


VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

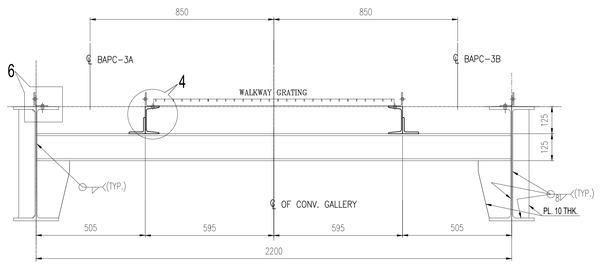




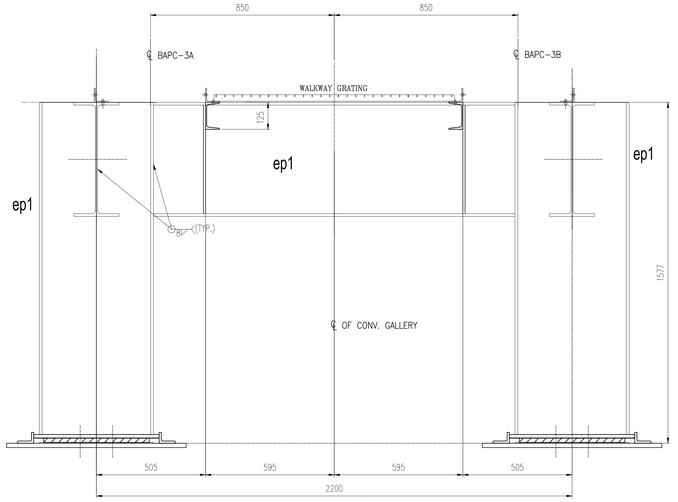




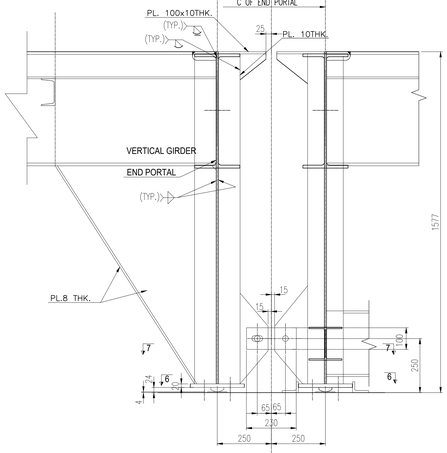
VIEW 3-3



VIEW 4-4



VIEW 3A-3A



DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL

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

4					
3					
2					
1					Changes as per comments
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES
BHEL JOB NO.: 702
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-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order No.:	618-450068
Basu	04/05/2019		Issued	Tech.Pos.: -
Mallick	06/06/2019		Gepr.	Contact: %SACHBE%
			E	-
			D	-
			C	-
			B	-
Basu	07/06/2019	A	Changes as customer remarks	
		Ind.	Modification	Ref. -

Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-47/12 & CG-54/12 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_027_R1

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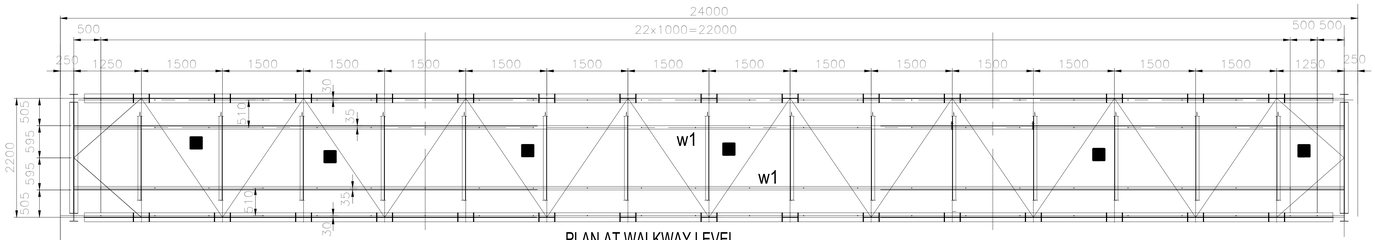
Scale: mts
Sheet/of: 1 / 1
Replacement for: -
Replaced by: -

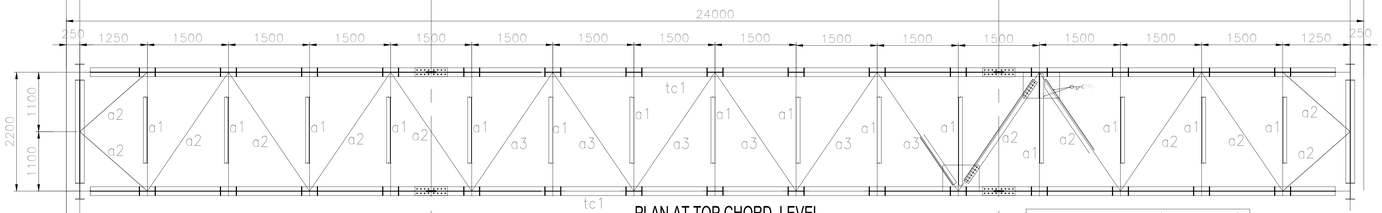
ISO 14405 GD&T ISO 13920-A/E

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

AO [1189 x 841]

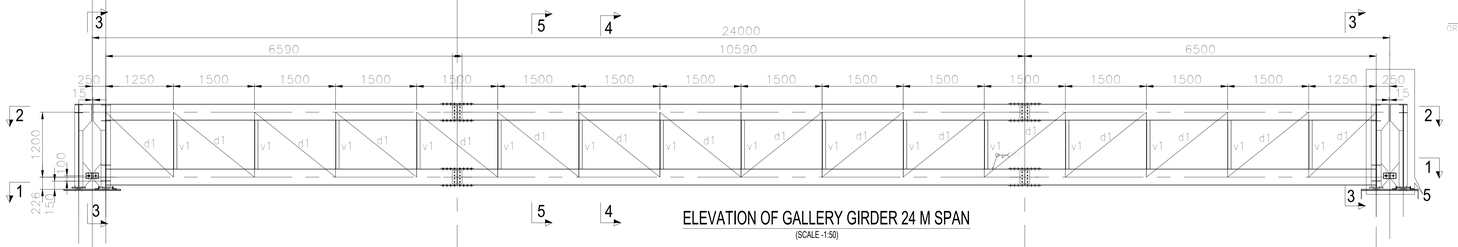


PLAN AT WALKWAY LEVEL
2-2



PLAN AT TOP CHORD LEVEL
2-2

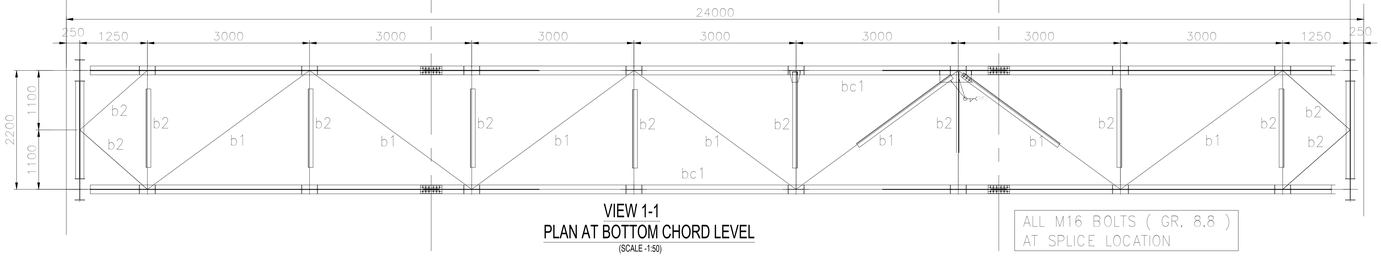
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



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

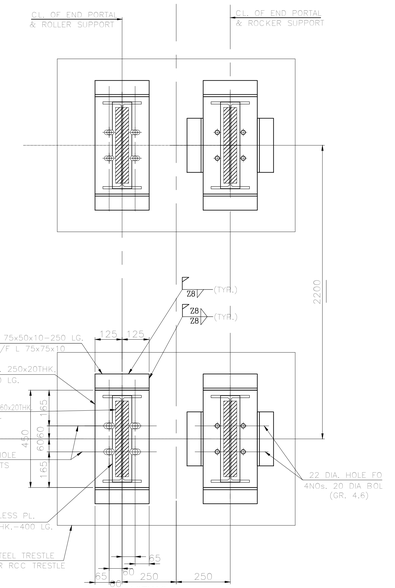
℄ OF SPLICE

℄ OF SPLICE



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

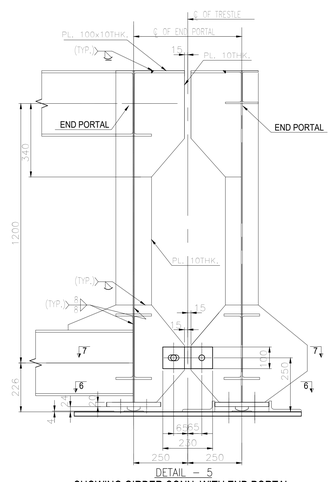
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



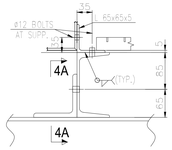
VIEW 6-6

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

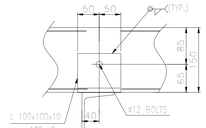
SCHEDULE OF MEMBERS FOR BAPC 24 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 305x165x40	730
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	ISMC 125	135
		a2	L 110x110x10 ⌜	240
		a3	L 90x90x8 ⌜	95
		GST.	PL. 10 THK.	
2	BOTTOM CHORD	bc1	UB 305x165x40	830
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 90x90x8 ⌜	75
		b2	L 50x50x6 ⌜	40
3	VERTICAL	v1	ISMC 125	150
		d1	2Ls 65x65x6	205
4	END PORTAL	ep1	UB 406x178x54	350
		ep2	UB 305x165x40	45
		ep3	L 110x110x10 L	230
5	WALKWAY STRINGERS	w1	ISMC 125	95
6	GST. PL.		8 mm. THK.	
7	FLOOR PL.		FLOORING WITH GRATING.	



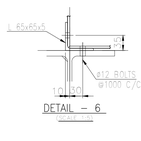
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



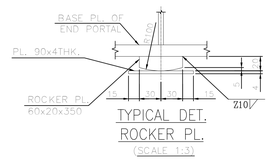
DETAIL – 4



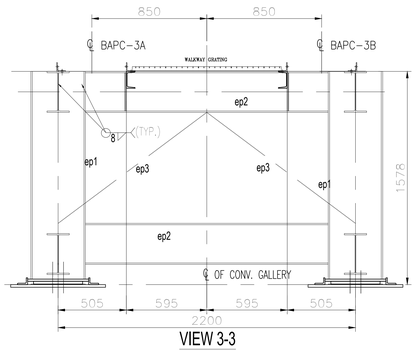
VIEW 4A–4A



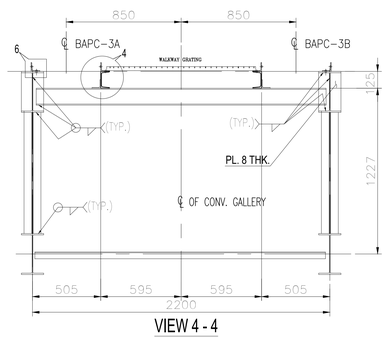
DETAIL – 6



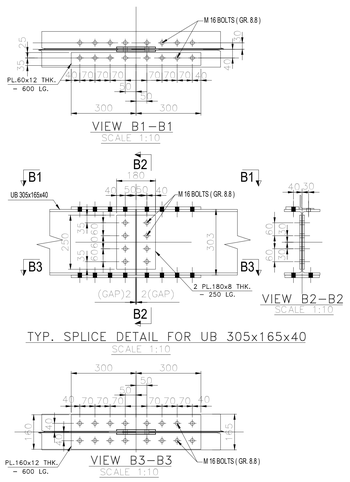
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

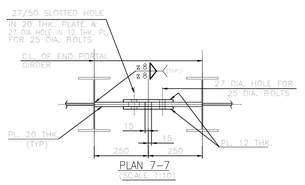


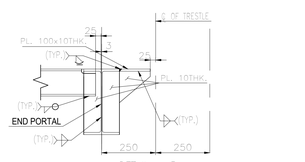
VIEW 3-3



VIEW 4 - 4







DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

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	04/09/2019	Issued	Tech.Pos.: -	Designation	STRUCTURAL GA OF STD. 24 M. GALLERY
Mallick	09/09/2019	Gen.	Contact: %SACHBE%		BAPC 3A/B
-		E	-	Drawing No.	S18_45068_BAPC 3AB_LD_028_R1
-		D	-		
-		C	-	This document and all data contained herein are confidential and exclusive property of the BEUMER Group. Any reproduction, transmission, modification, etc. of the data in whole or in part is prohibited without express prior written consent. Refer to Protection Notice ISO 16016.	Scale mtls
-		B	-		
Basu	07/08/2019	A	Changes as customer remarks		Sheet/of 1 / 1
ISO 14400		Ind	Modification	Ref. -	
ISO 13920-A/E				Origin -	Replacement for - Replaced by -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 OF 1

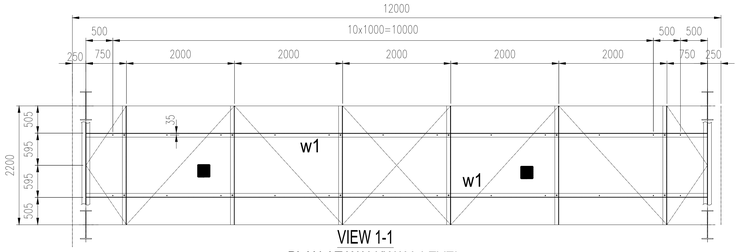
TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE– A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree–00–UEU–LC–177430–ISG–0

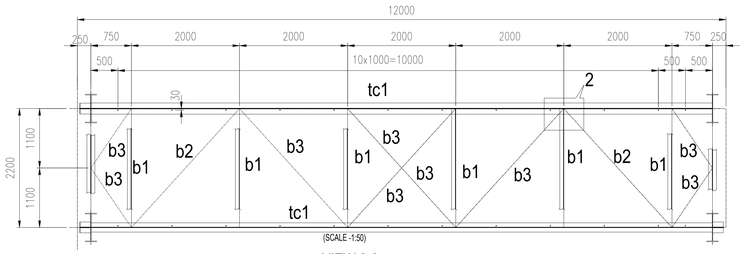
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
DRAWING NO.:
REV.: 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

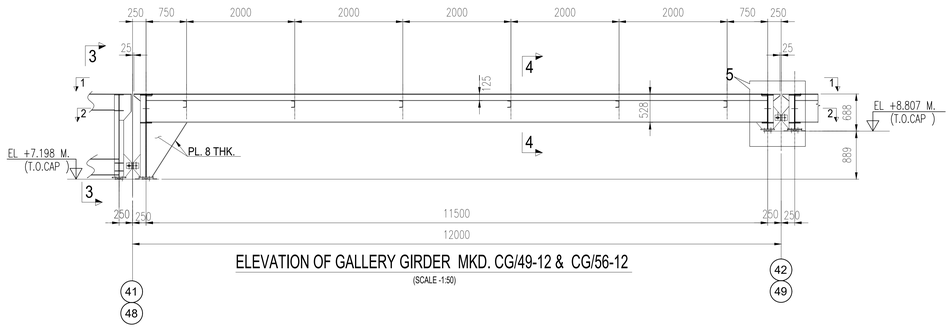
A0 [1189 x 841]



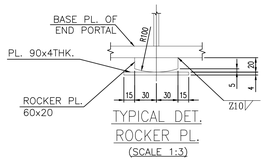
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)

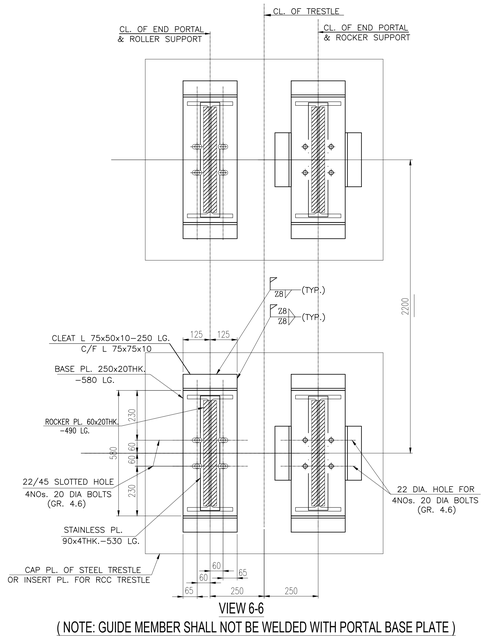


VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



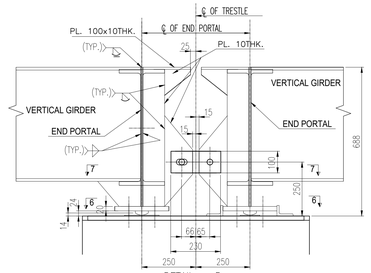
ELEVATION OF GALLERY GIRDER MKD. CG/49-12 & CG/56-12
(SCALE -1:50)



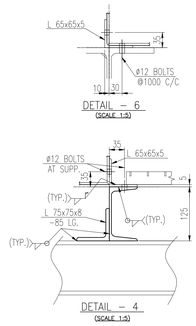


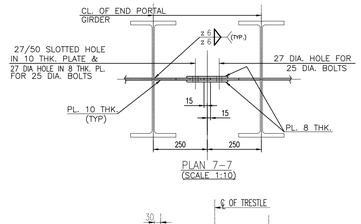
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 T	80
		b3	2Ls 75x75x8 T	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

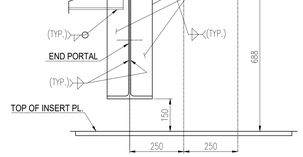


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

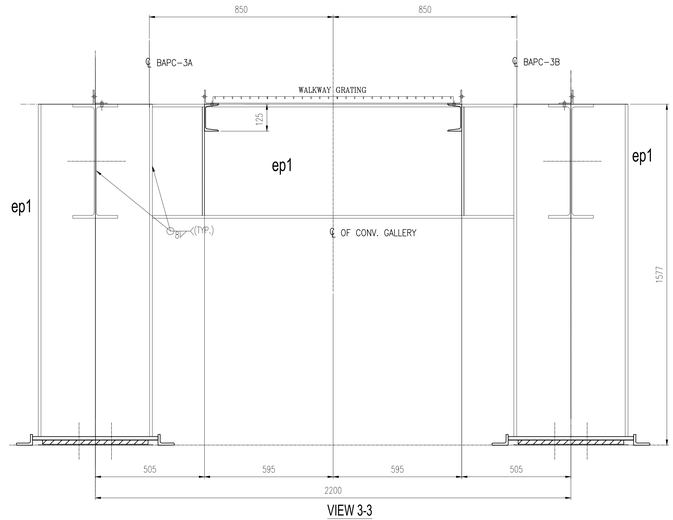




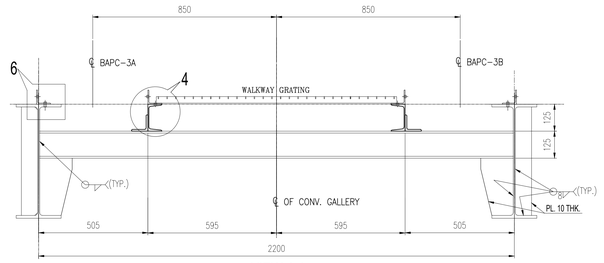
PLAN 7–7
(SCALE 1:10)



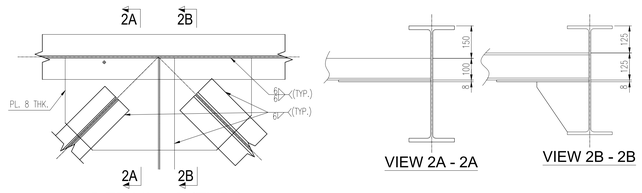
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



VIEW 3-3



VIEW 4-4



VIEW 2A - 2A
VIEW 2B - 2B

DETAIL - 2 (TYP.)

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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS
SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702	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–UEU–LC–177430–ISG–0		

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: –
Mallick	08/06/2019	Dept	Contact: %SACHBE%
		E	–
		D	–
		C	–
		B	–
Basu	07/06/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-A/E			Ref.: –
			Origin: –

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-49/12 & CG-56/12 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_029_R1

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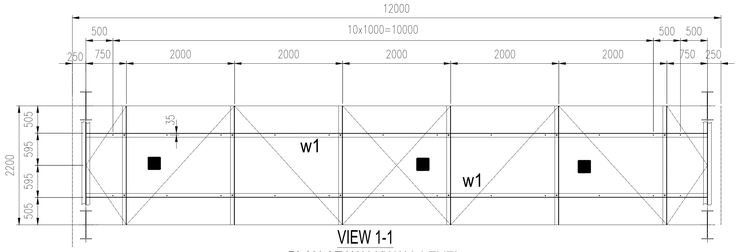
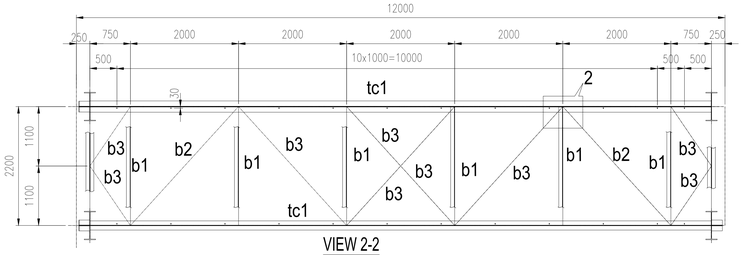
Scale: nts
Sheet/of: 1 / 1
Replacement for: –
Replaced by: –

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

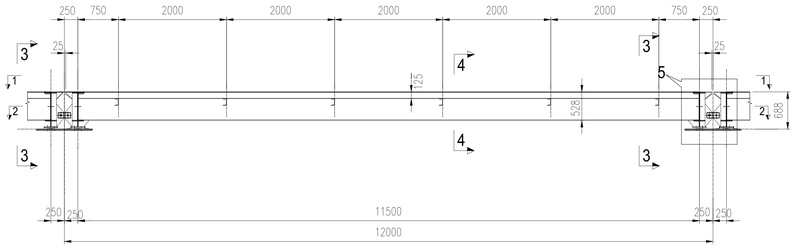
A0 [1189 x 841]



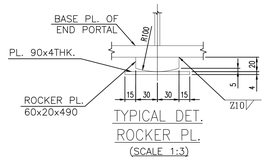
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



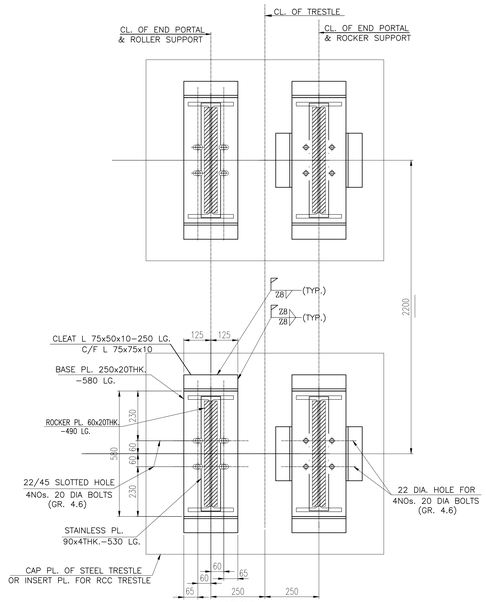
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



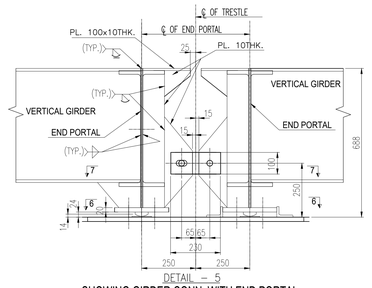
ELEVATION OF GALLERY GIRDER 12 M.
(SCALE -1:50)



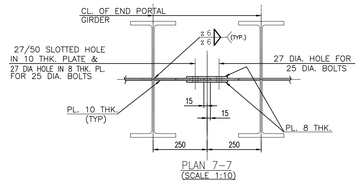
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



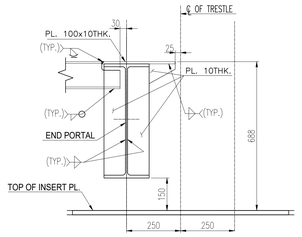
VIEW 6-6



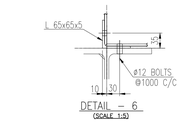
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



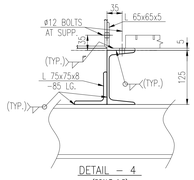
PLAN 7–7
(SCALE 1:10)



DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

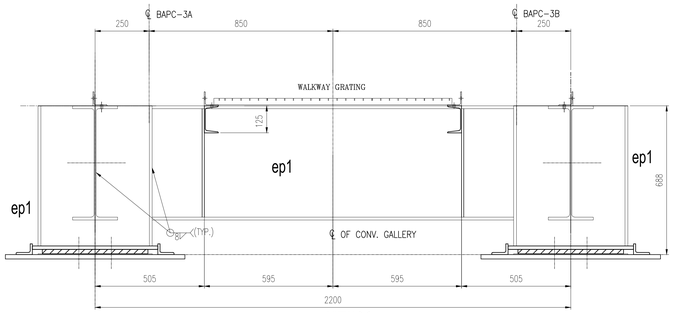


DETAIL – 6
(SCALE 1:5)

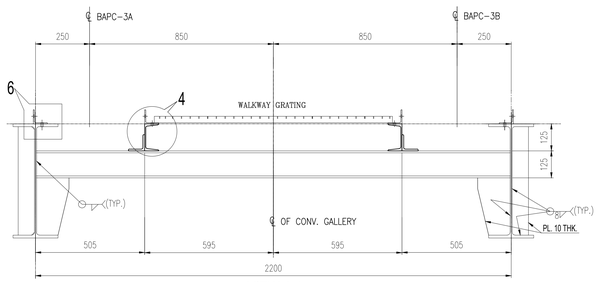


DETAIL – 4
(SCALE 1:5)

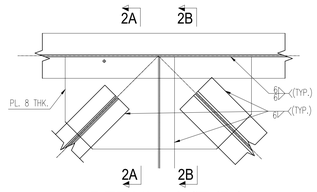
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



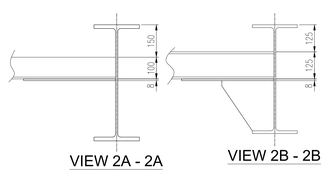
VIEW 3-3



VIEW 4-4



DETAIL - 2 (TYP.)



VIEW 2A - 2A
VIEW 2B - 2B

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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A–3B
SUPERSEDES | BHEL JOB NO.: 702 | 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–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	05/08/2019	Gepr.	Contact: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF STD. 12 M. ST. GALLERY BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_030_R1

Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-A/E			Origin

Ref.: -
Replacement for: -
Replaced by: -

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Scale: nts
Sheet/of: 1 / 1

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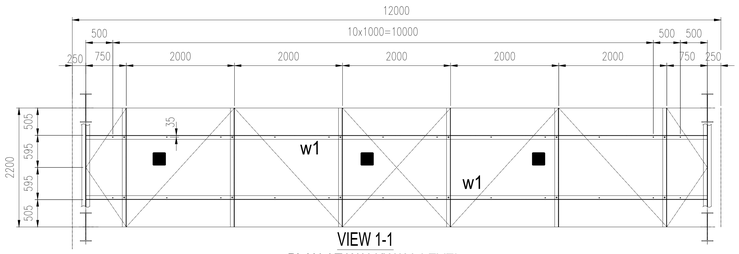
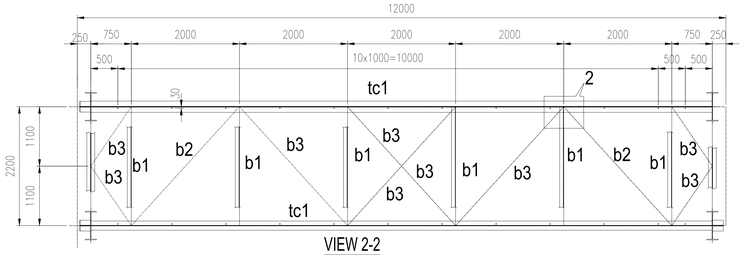
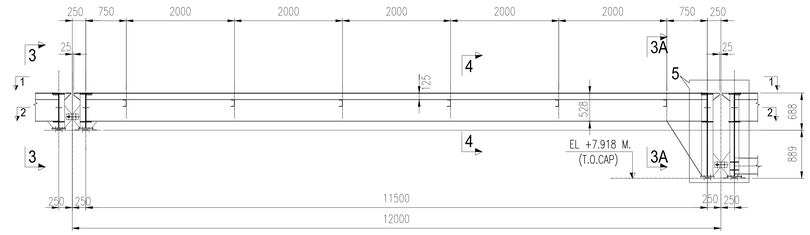
A0 [1189 x 841]



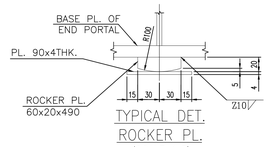
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



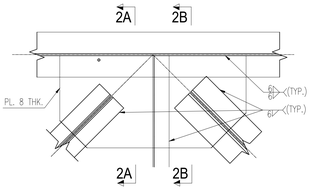
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



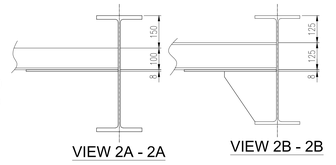
ELEVATION OF GALLERY GIRDER MKD. CG - 58/12 , CG - 82/12 & CG - 98/12
(SCALE -1:50)



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



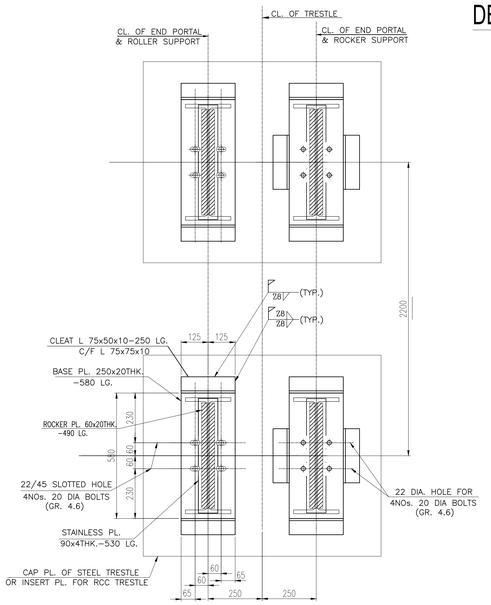
DETAIL - 2 (TYP.)



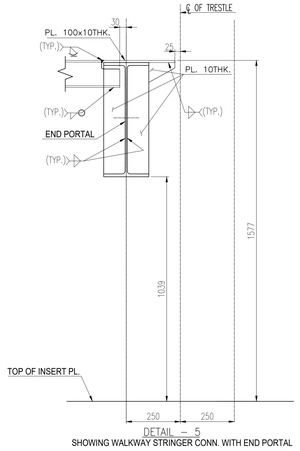
VIEW 2A - 2A

VIEW 2B - 2B

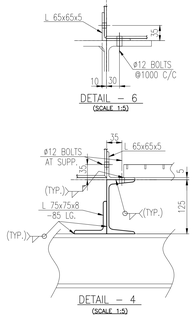
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



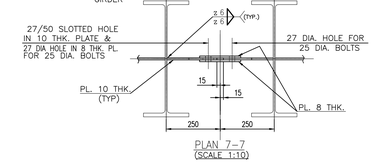
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



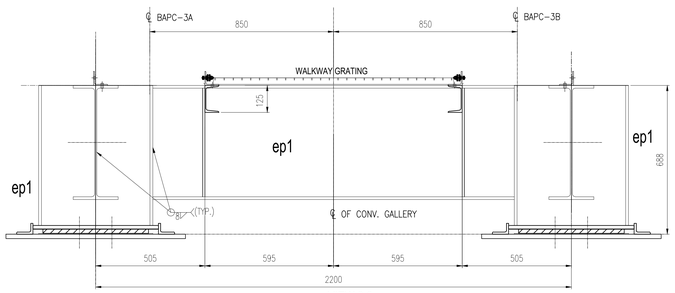
DETAIL - 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



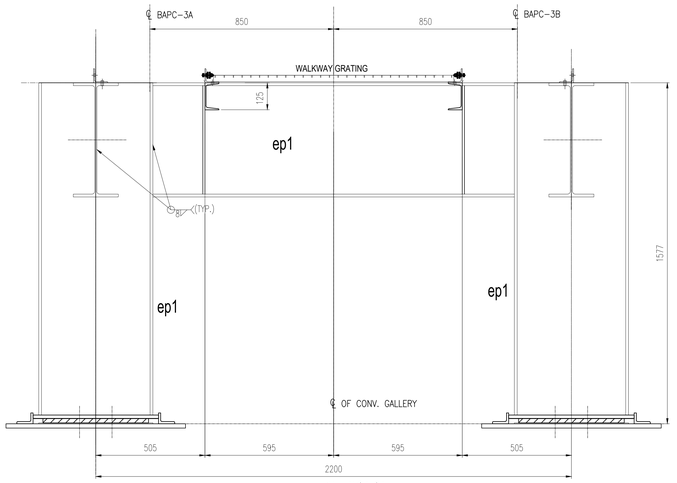
DETAIL - 4
(SCALE 1:5)



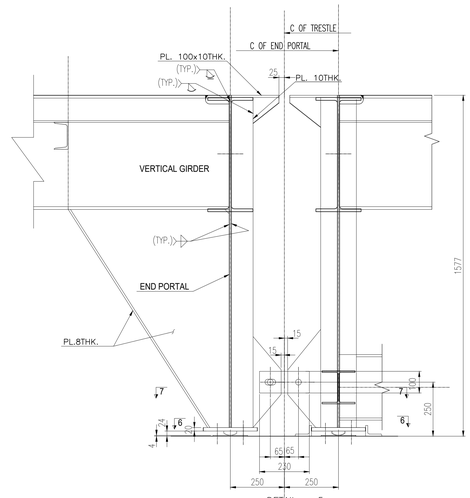
PLAN 7-7
(SCALE 1:10)



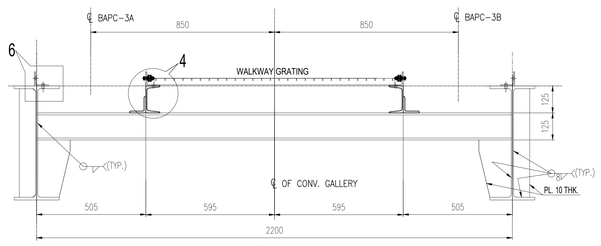
VIEW 3-3



VIEW 3A-3A



DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 4-4

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

4						
3						
2						
1						Changes as per comments
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-0

STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068
DRAWING NO.:
REV.: 1

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	08/08/2019	Gepr.	Contact: %SACHBE%
Basu	27/08/2019	A	Changes as customer remarks

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

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-58,82 & 98/12 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_031_R1

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Scale: n/a
Sheet/of: 1 / 1
Replaced for: - Replaced by: -

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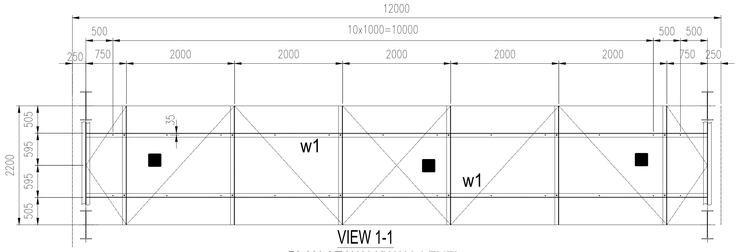
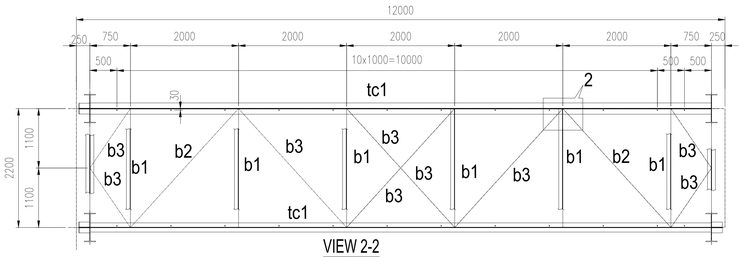
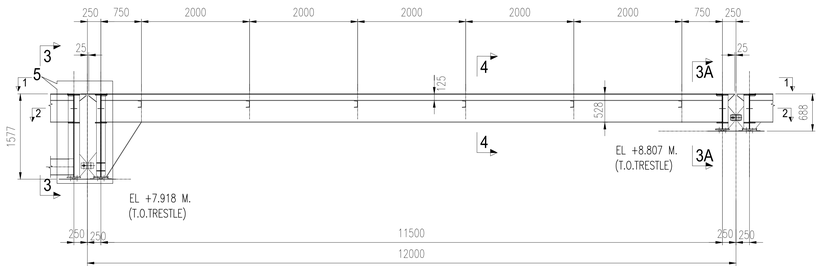
A0 [1189 x 841]



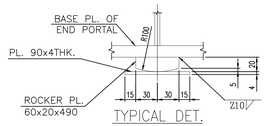
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



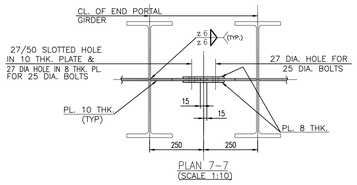
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



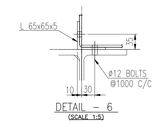
ELEVATION OF GALLERY GIRDER 12 M. (CG.60/12),(CG.75/12),(CG.84/12)
(SCALE -1:50)



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

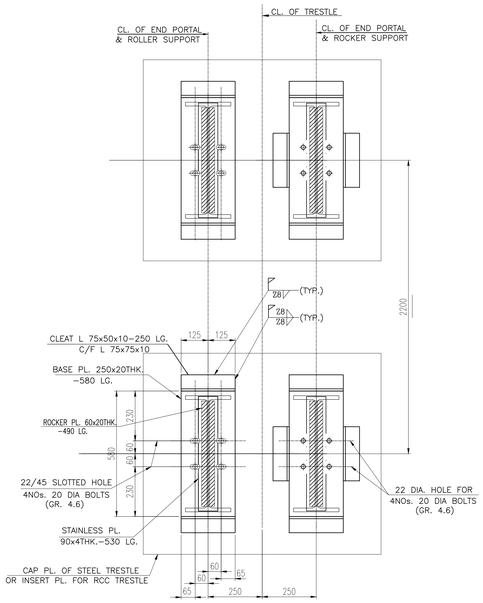


PLAN 7–7
(SCALE 1:10)

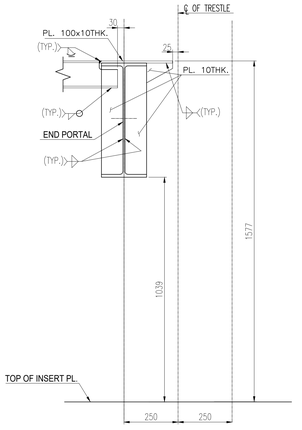


DETAIL – 6
(SCALE 1:5)

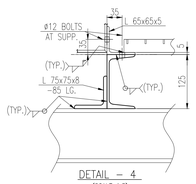
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 T	80
		b3	2Ls 75x75x8 T	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		FLOORING WITH GRATING.	



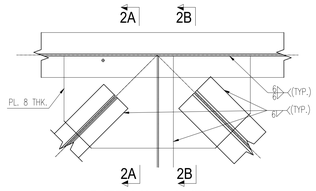
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



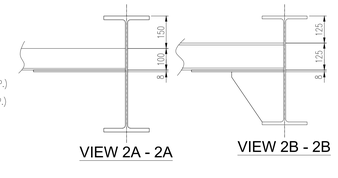
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



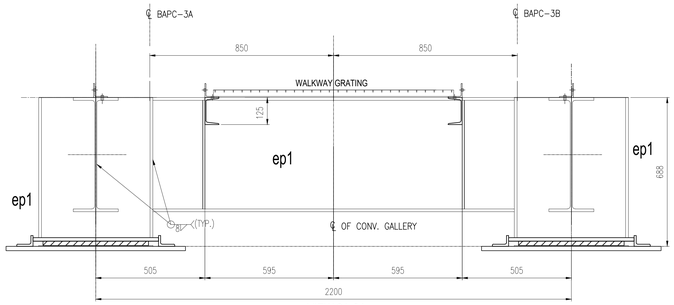
DETAIL – 4
(SCALE 1:5)



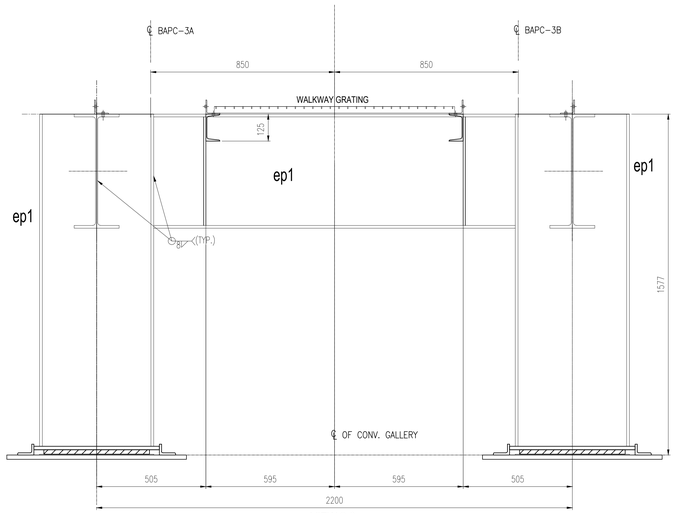
DETAIL - 2 (TYP.)



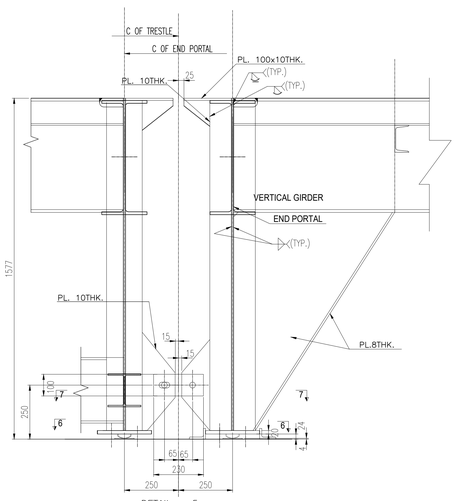
VIEW 2A - 2A
VIEW 2B - 2B



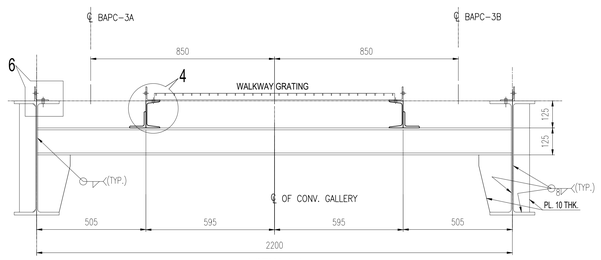
VIEW 3A-3A



VIEW 3-3



DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 4-4

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

	NAME	DATE
DRN	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

SUPERSEDES	
SUPERSEDED BY	
SYSTEM	

BEUMERGROUP
Name Date %AT% Order No.: 618-450068
Basu 04/05/2019 Issued Tech.Pos.: –
Mallick 08/08/2019 Gspr. Contact: %SACHBE%
Basu 27/08/2019 A Changes as customer remarks
Ind Modification Ref.: –
Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-60,75 & 84/12 BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_032_R1
Scale: mts
Sheet/of 1 / 1
ISO 14405 ISO 13920-A/E
- Replacement for -
- Replaced by -

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4					
3					
2					
1					Changes as per comments
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

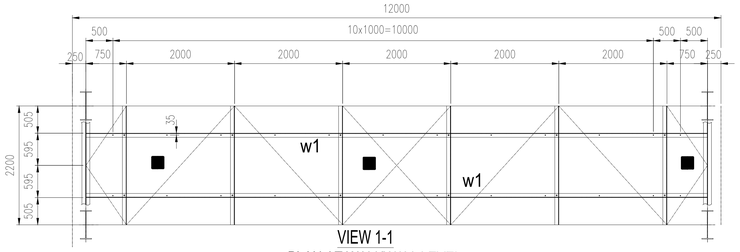
PACKAGE VENDOR
BEUMERGROUP BEUMER INDIA PVT. LTD.
BEUMER Maschinefabrik,Germany

SCALE NTS
SHEET 1 OF 1
STATUS OF DRG.: FOR APPROVAL
BHEL JOB NO.: 702
SIZE– A0 [1189 x 841]
PROJECT NO.: 618–450068
ANNEX.: –
DRAWING NO.:
REV.: 1
CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0

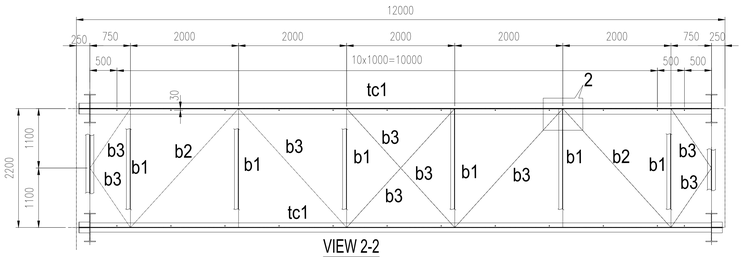
TITLE: STRUCTURAL GA OF BAPC 3A–3B

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

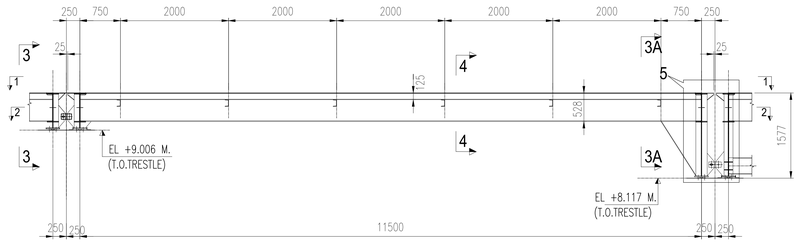
A0 [1189 x 841]



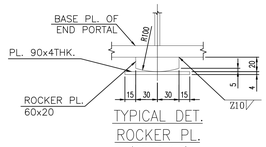
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



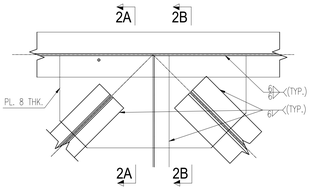
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



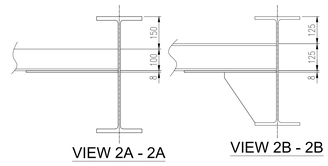
ELEVATION OF GALLERY GIRDER 12 M. (CG.72/12) & (CG.94/12)
(SCALE -1:50)



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



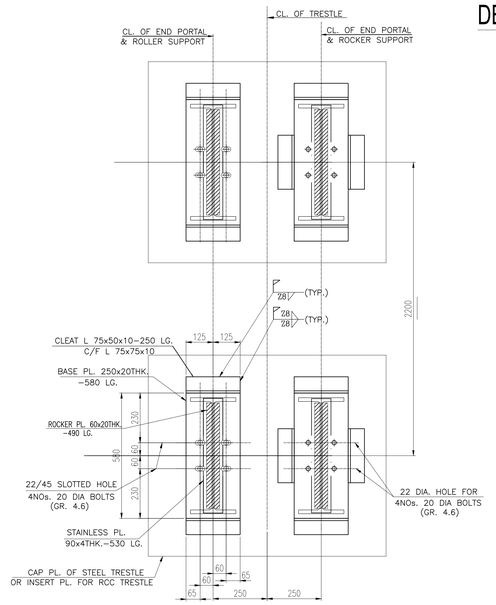
DETAIL - 2 (TYP.)



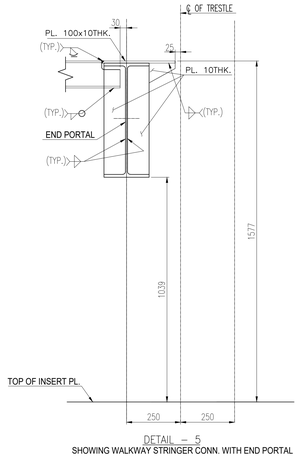
VIEW 2A - 2A

VIEW 2B - 2B

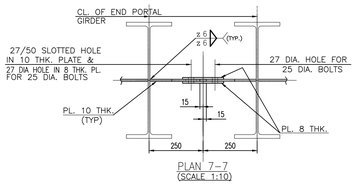
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



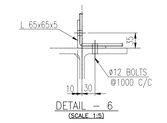
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



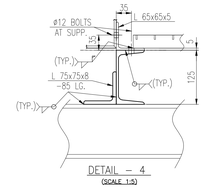
DETAIL - 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



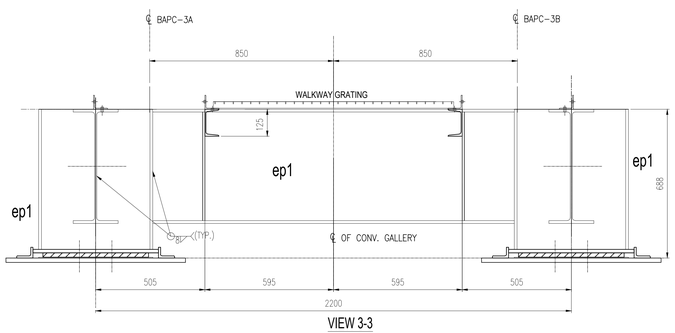
PLAN 7-7
(SCALE 1:10)



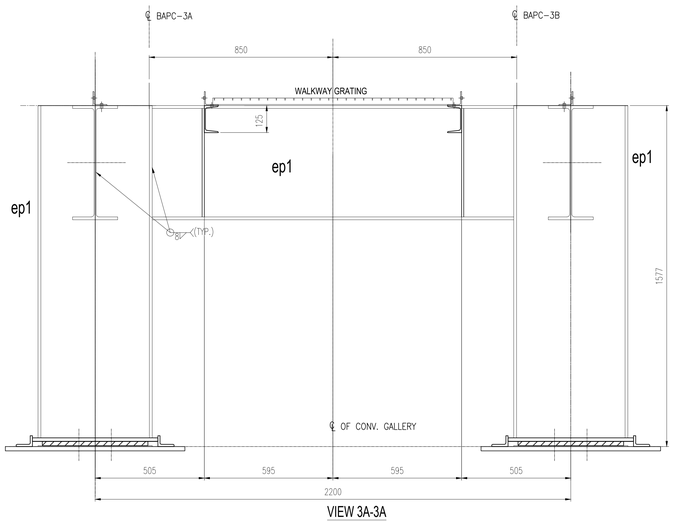
DETAIL - 6
(SCALE 1:5)



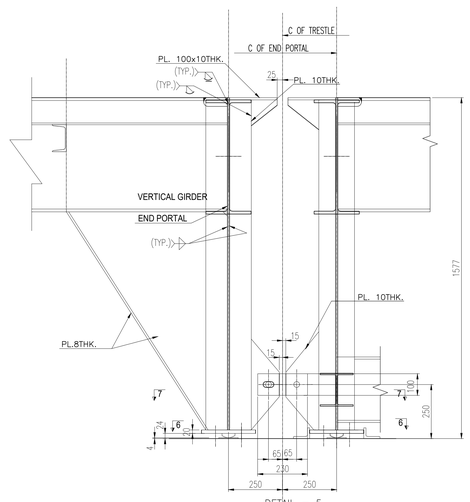
DETAIL - 4
(SCALE 1:5)



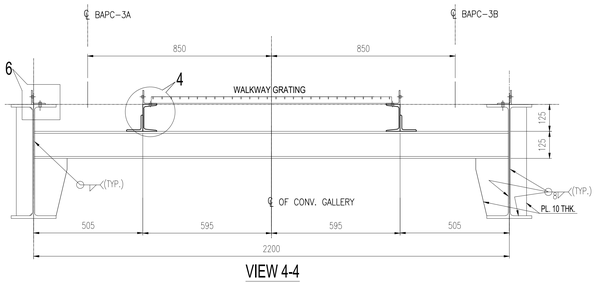
VIEW 3-3



VIEW 3A-3A



DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 4-4

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	04/05/2019	Issued	Tech.Pos.: -
Mallick	09/08/2019	Gnr.	Contact: %SACHBE%

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per comments
E					
D					
C					
B					
0					
A	07/08/2019	Basu			Changes as customer remarks

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

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-72 & CG-94/12 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_033_R1

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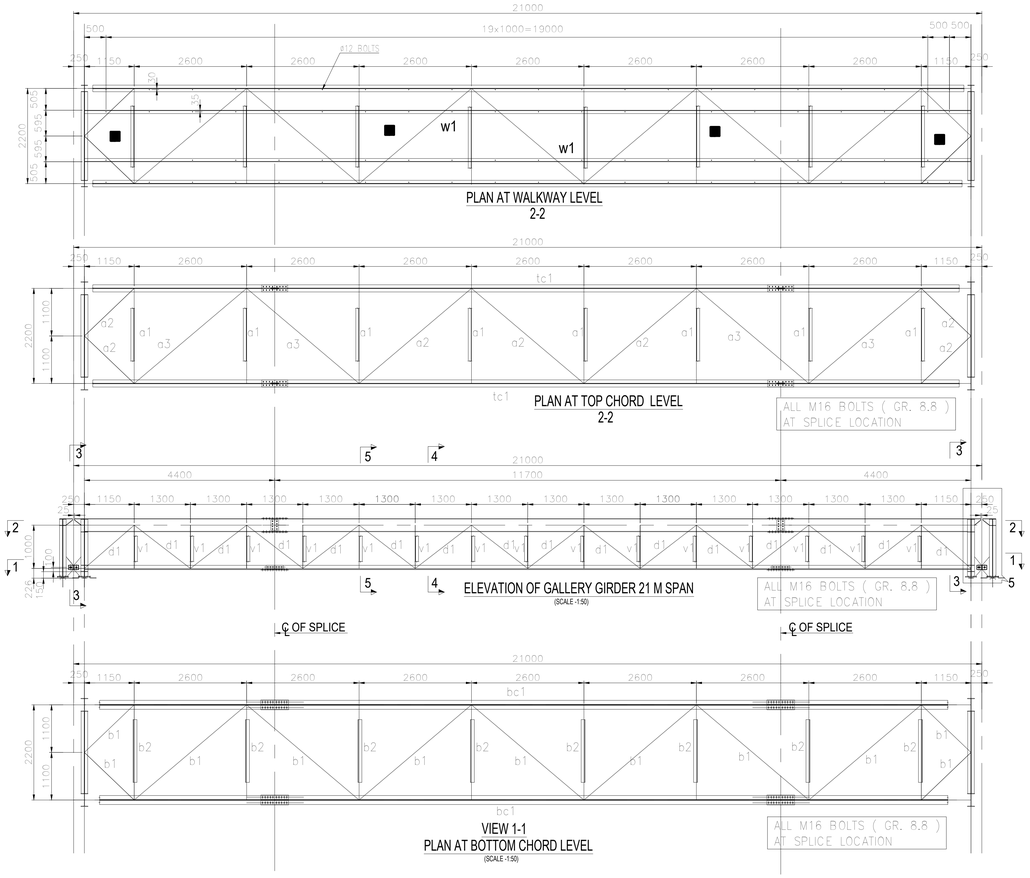
Scale: n/a | Sheet/of: 1 / 1

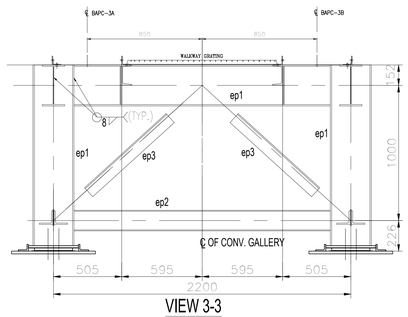
CUSTOMER CONSULTANT:	CUSTOMER/PROJECT:
FICHTNER GmbH & Co KG, Stuttgart, GERMANY	BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH
EPC CONTRACTOR:	BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE

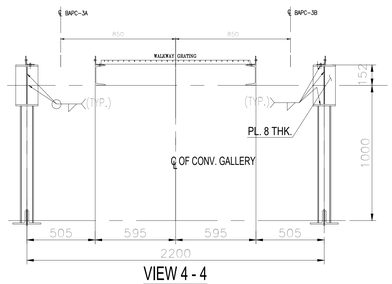
	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	19.06.2019	BEUMERGROUP BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany	NTS
CHD	–	19.06.2019		SHEET 1
APPD	–	19.06.2019	TITLE: STRUCTURAL GA OF BAPC 3A-3B	OF 1
SUPERSEDES			BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE- A0 [1189 x 841]	PROJECT NO.: 618-450068
SYSTEM			ANNEX.: – DRAWING NO.:	REV.: 1
CUSTOMER DRAWING NO.:			Maitree-00-UEU-LC-177430-ISG-0	

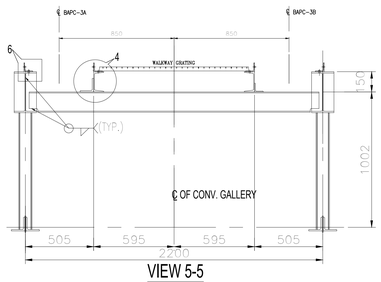
A0 [1189 x 841]

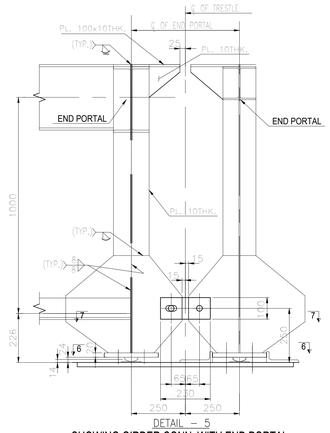
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

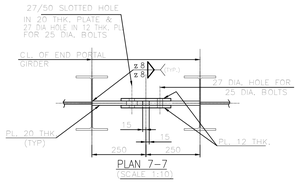




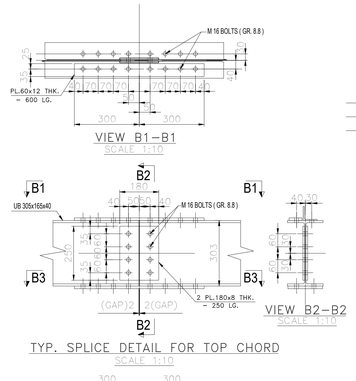


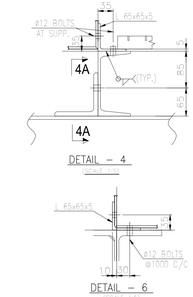


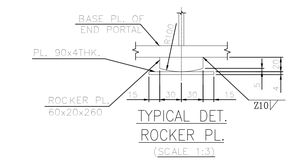


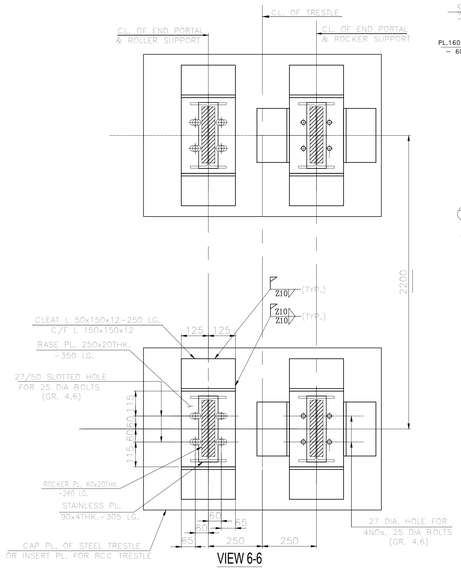


SCHEDULE OF MEMBERS FOR BAPC 21 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 305x165x40	120
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	ISMC 150	120
		a2	ISMC 125	240
		a3	2 ISMC 125	250
2	BOTTOM CHORD	bc1	2Ls 100x100x10	150
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	L 75x75x8	25
		b2	L 50x50x6	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6	200
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	UC 152x152x23	20
		ep3	2Ls 75x75x8	180
6	WALKWAY STRINGERS	w1	ISMC 150	70
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	FLOORING WITH GRATING.		









(NOTE: 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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SCALE NTS | SHEET OF

SUPERSEDES | BHEL JOB NO.: 702 | 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-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%ATT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech Pros.: -
Mallick	06/06/2019	Gepr.	Contact: %SACHBE%

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF 21M. STD. GALLERY BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_034_R1

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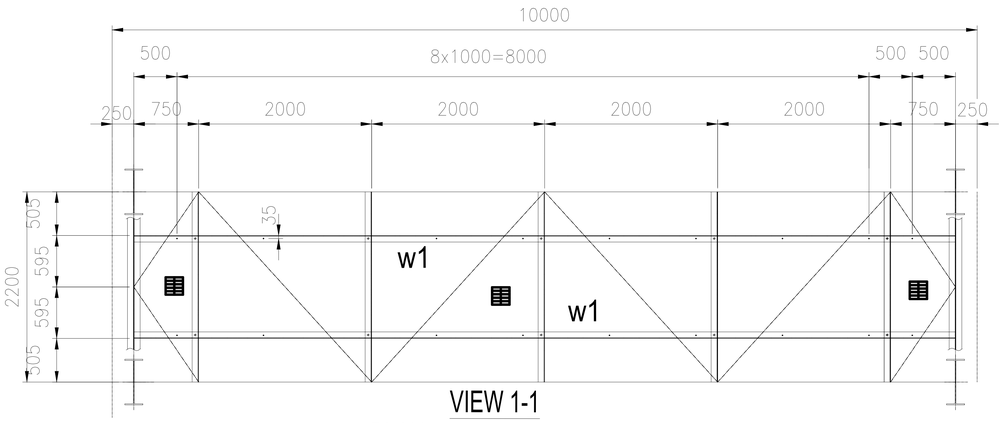
Scale: nts | Sheet/of: 1 / 1

Basu	07/06/2019	Ind	Modification:
ISO 14405			Ref.: -
ISO 13920-A/E			Origin: -

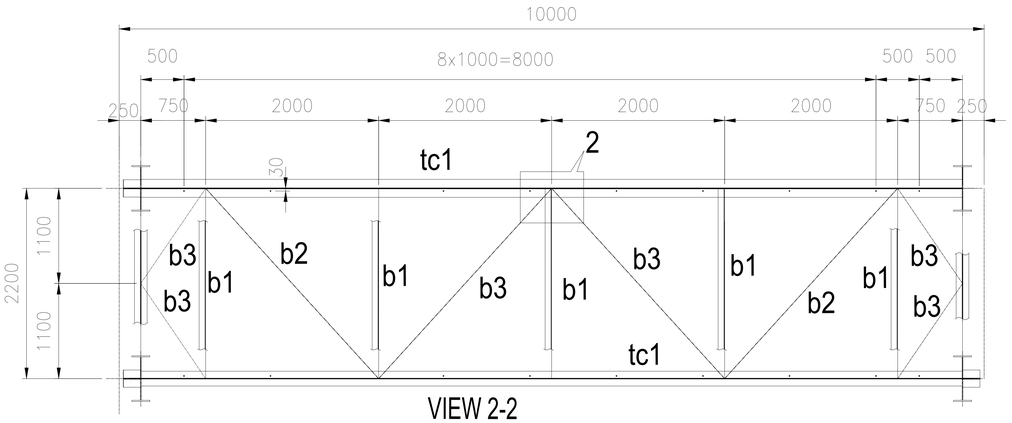
Replacement for: - | Replaced by: -

AO [1189 x 841]

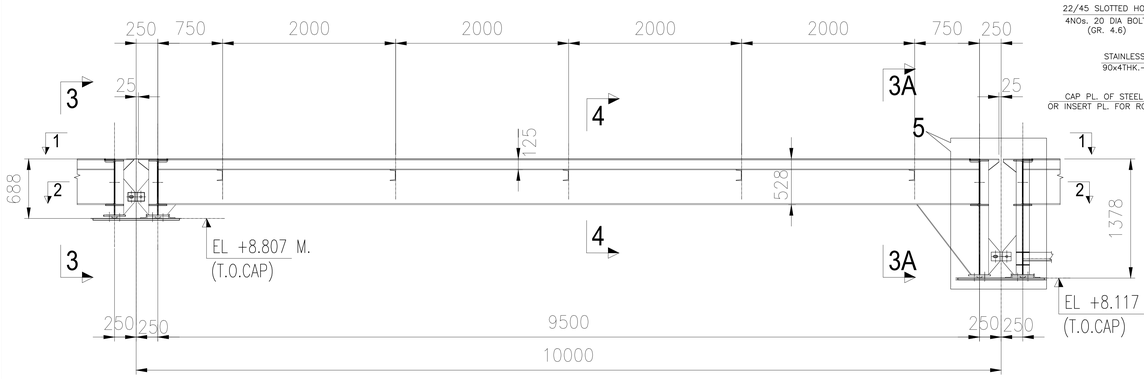
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



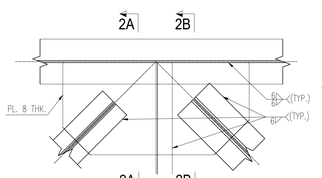
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



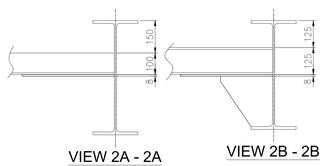
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



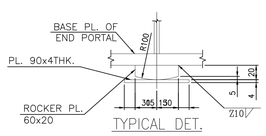
ELEVATION OF GALLERY GIRDER 10 M. (CG.88/10)
(SCALE -1:50)



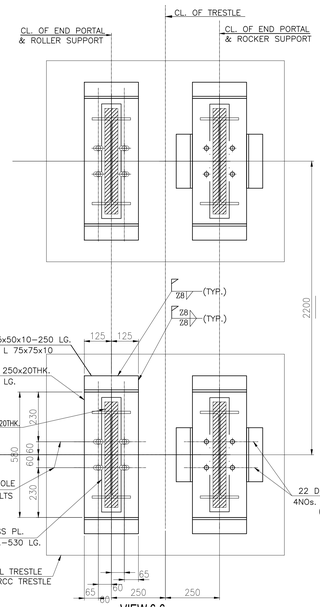
DETAIL - 2 (TYP.)



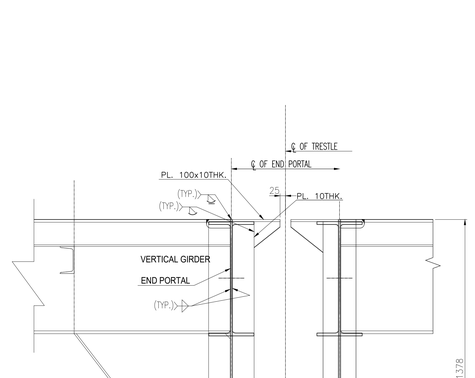
VIEW 2A - 2A VIEW 2B - 2B



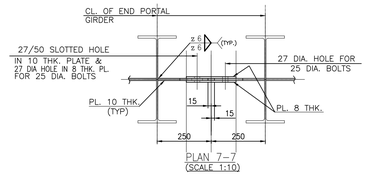
TYPICAL DET. ROCKER PL.
(SCALE 1:3)



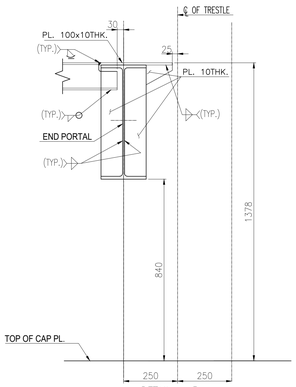
VIEW 6-6



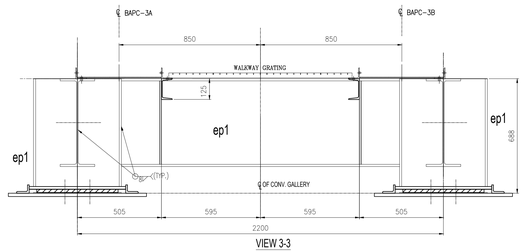
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



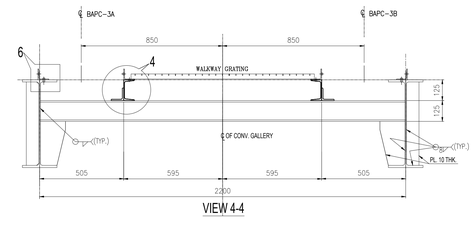
PLAN 7–7
(SCALE 1:10)



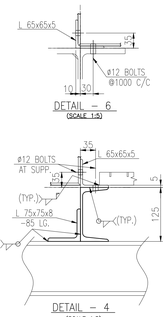
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



VIEW 3-3



VIEW 4-4



DETAIL – 6
(SCALE 1:5)

DETAIL – 4
(SCALE 1:5)

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 BAPC 10 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 | OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES: BHEL JOB NO.: 702 | 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-UEU-LC-177430-ISC-0

BEUMERGROUP

Name	Date		%AT%
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/06/2019	Dsgn.	Contract: %SACHBE%
-		E	
-		D	
-		C	
-		B	
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification Ref.: -
ISO 13920-A/E			Origin: -

Order No.: 618-450068

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-88/10 BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_035_R1

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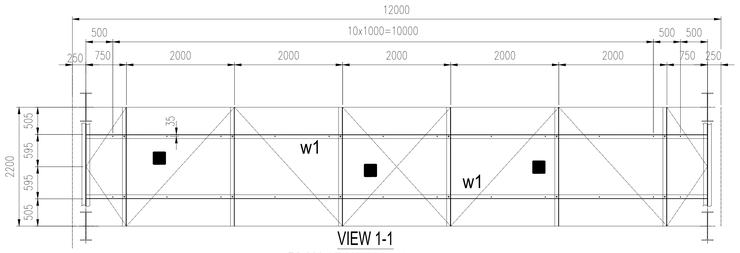
Scale: nts | Sheet/of: 1 / 1

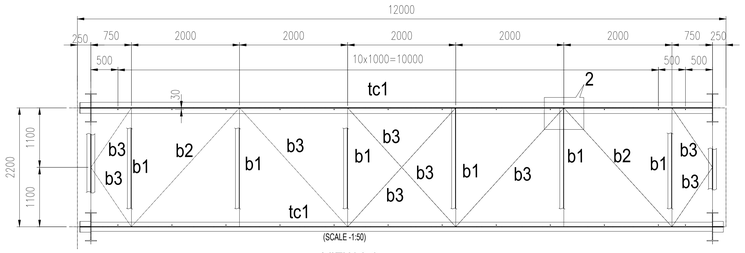
Replacement for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

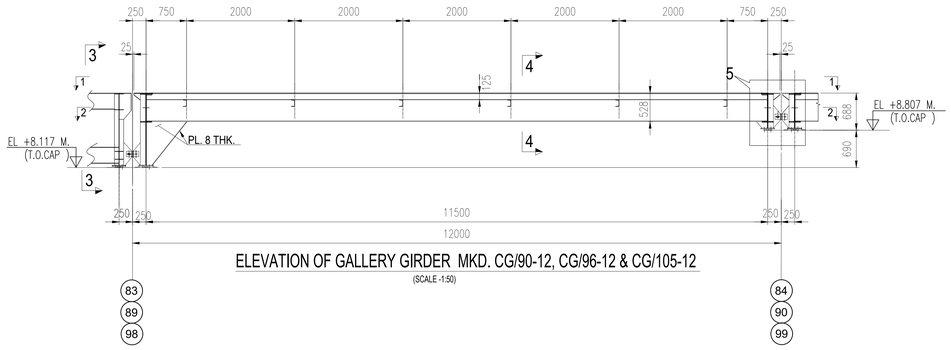
A0 [1189 x 841]



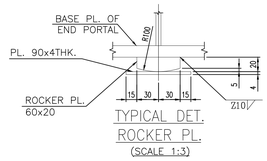
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



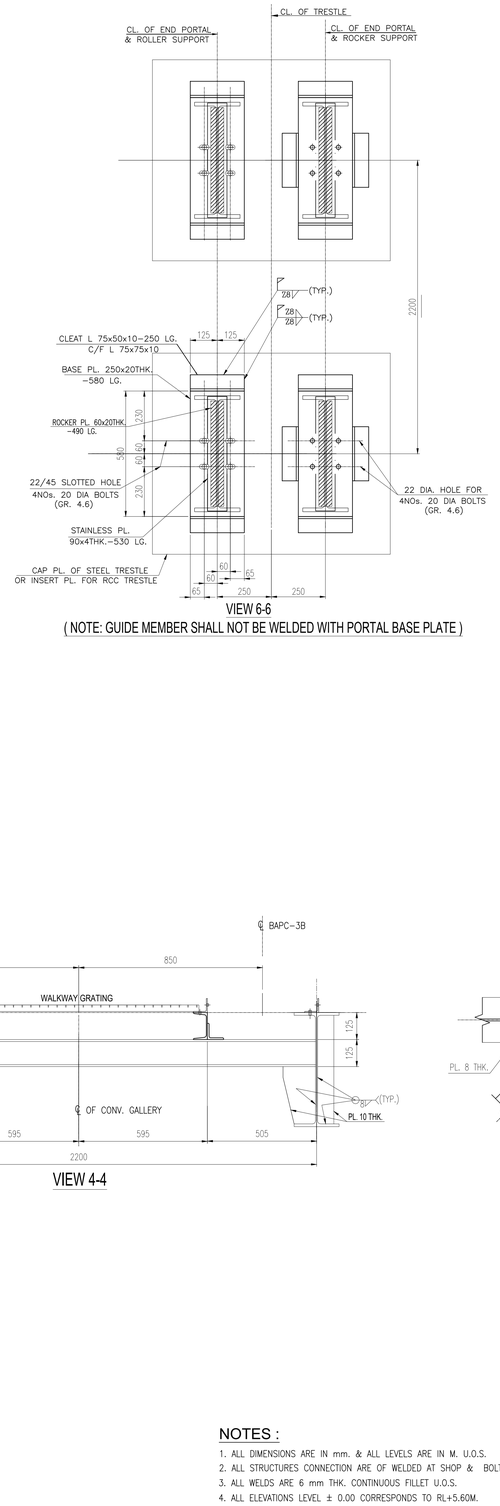
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



ELEVATION OF GALLERY GIRDER MKD. CG/90-12, CG/96-12 & CG/105-12
(SCALE -1:50)

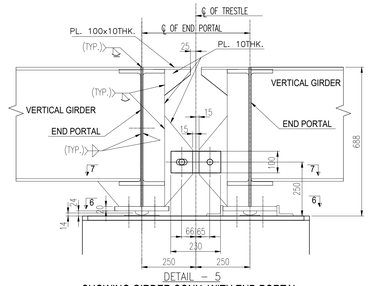


TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

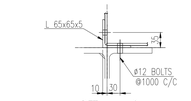


VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

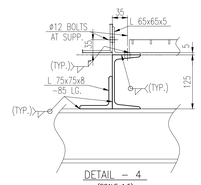
SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊤	80
		b3	2Ls 75x75x8 ⊤	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



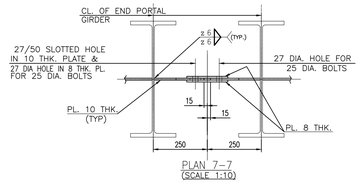
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



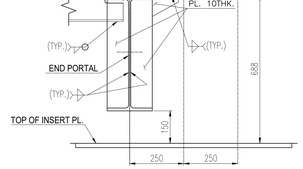
DETAIL – 6
(SCALE 1:5)



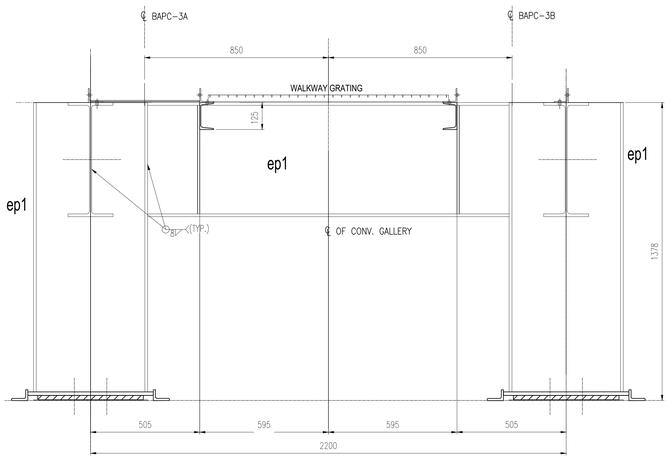
DETAIL – 4
(SCALE 1:5)



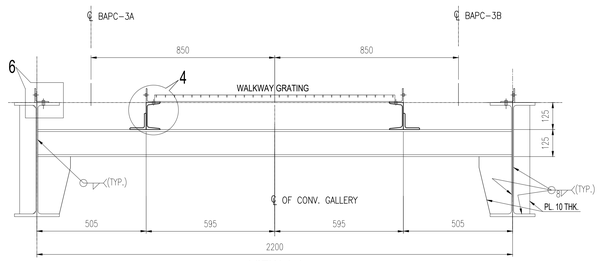
PLAN 7–7
(SCALE 1:10)



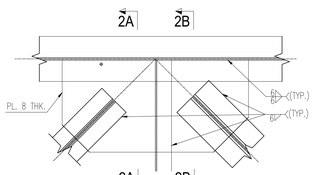
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



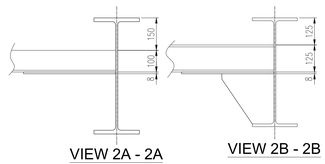
VIEW 3-3



VIEW 4-4



DETAIL - 2 (TYP.)



VIEW 2A - 2A

VIEW 2B - 2B

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	04/05/2019		Issued	Tech.Pos.: -	Designation
Mallick	08/06/2019		Gepr.	Contact: %SACHBE%	STRUCTURAL GA OF CG-90 , 96 & 105/12
			E	-	BAPC 3A/B
			D	-	Drawing No.
			C	-	S18_45068_BAPC 3AB_LD_036_R1
			B	-	This document and all data contained herein are confidential and exclusive property of the BEUMER Group. Any reproduction, transmission, modification, use or any kind of supply to others is strictly forbidden without express prior written consent. Refer to Protection Notice ISO 16016.
Basu	07/08/2019	A	Changes as customer remarks		Scale mm
ISO 14405		Ind	Modification	Ref. -	Sheet/of 1 / 1
ISO 13920-A/E			Origin	-	- Replacement for - Replaced by -

4					
3					
2					
1					Changes as per comments
REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

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

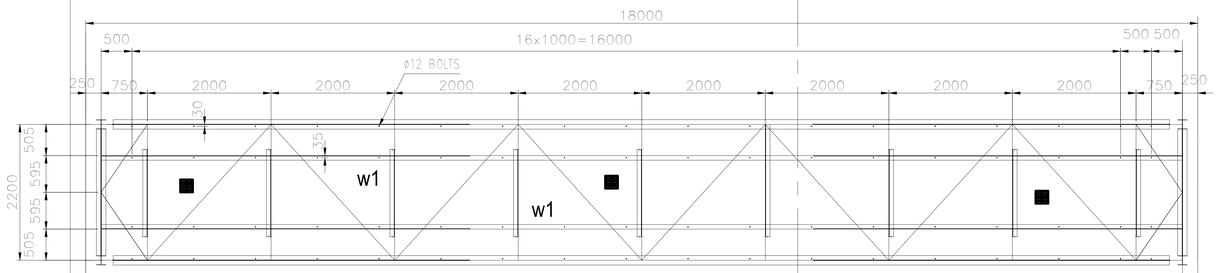
CUSTOMER/PROJECT:
BANGLADESH–INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGALADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

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

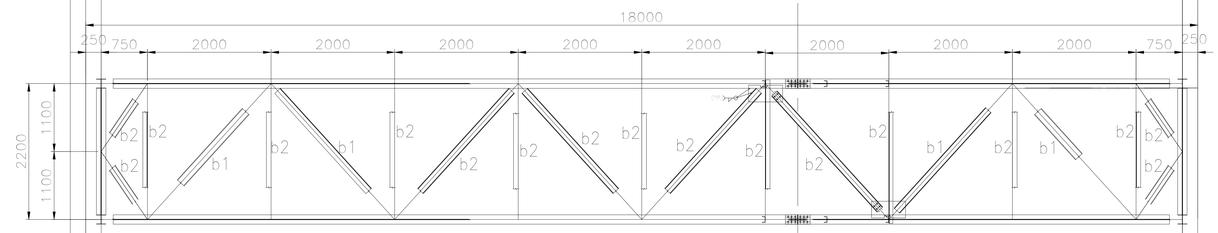
	NAME	DATE	PACKAGE VENDOR	SCALE
DRN	–	19.06.2019	BEUMER INDIA PVT. LTD.	NTS
CHD	–	19.06.2019	BEUMER Maschinefabrik,Germany	SHEET 1
APPD	–	19.06.2019	TITLE: STRUCTURAL GA OF BAPC 3A–3B	OF 1
SUPERSEDES			BHEL JOB NO.: 702	STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY			SIZE– A0 [1189 x 841]	PROJECT NO.: 618–450068
SYSTEM			ANNEX.: – DRAWING NO.:	REV.: 1
CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0				

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

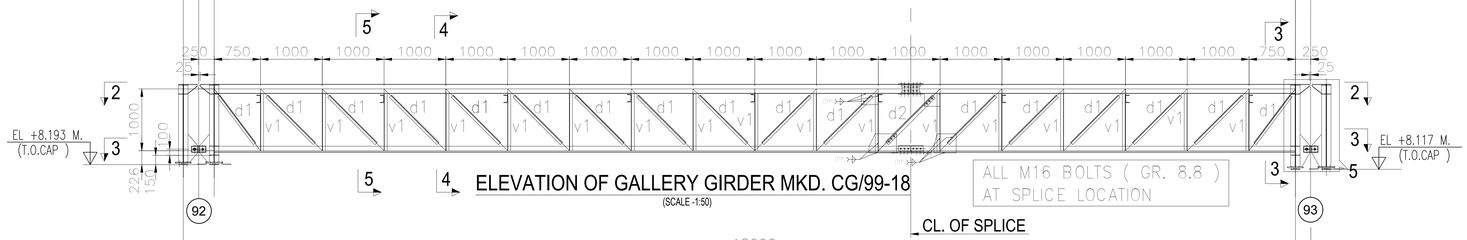


PLAN AT WALKWAY LEVEL
2-2



PLAN AT TOP CHORD LEVEL
2-2

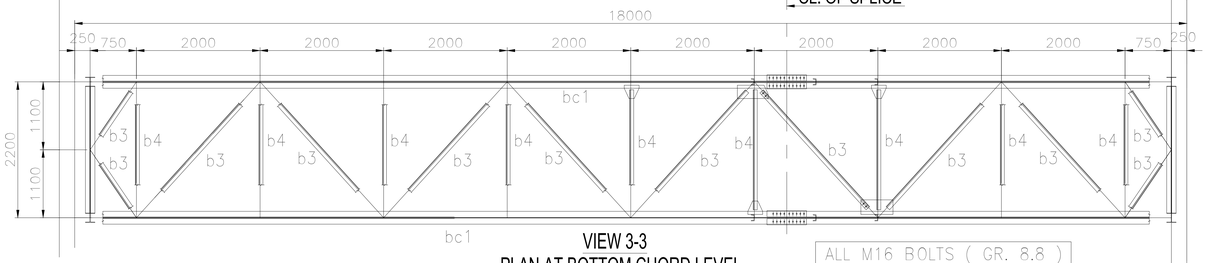
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



ELEVATION OF GALLERY GIRDER MKD. CG/99-18
(SCALE -1:50)

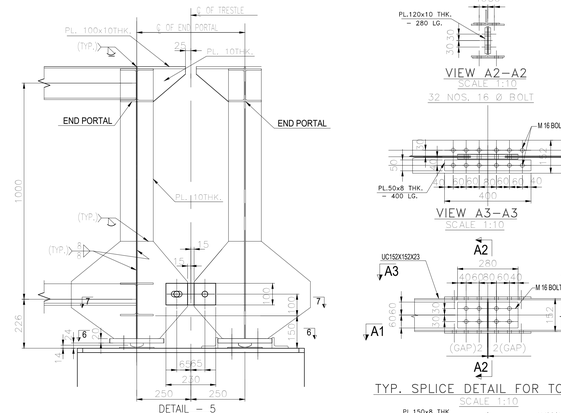
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

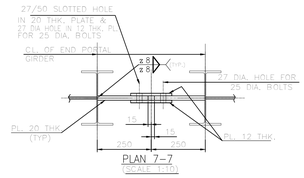
CL. OF SPLICE

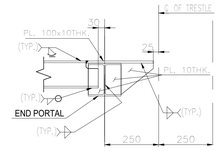


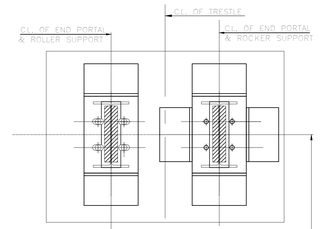
VIEW 3-3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

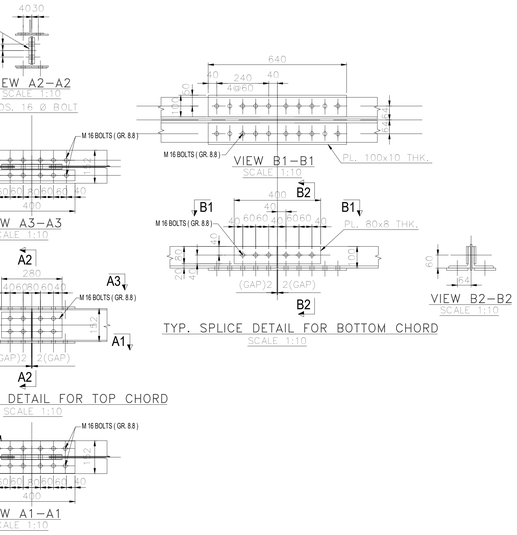
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION





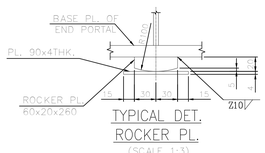


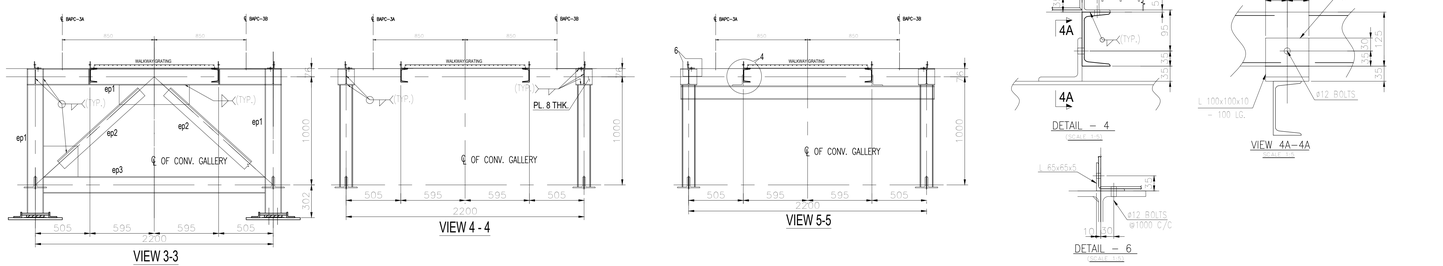


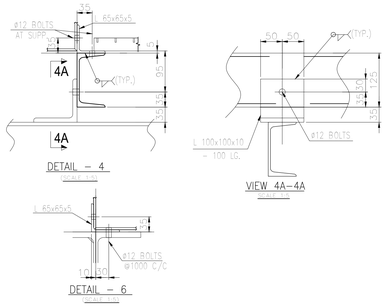


SCHEDULE OF MEMBERS FOR BAPC 18 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 75x75x8 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥⊥	180
5	END PORTAL	ep1	UB 305x165x40	150
		ep2	2Ls 75x75x8 ⊥⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
8	FLOOR PL.	FLOORING WITH GRATING.		







NOTES :

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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					Changes as per comments

BEUMERGROUP

	Name	Date	%AT%	Order No.:	618-450068
Issu	Bau	04/05/2019	Issued	Tech Pos.:	-
Mallick	Mallick	05/06/2019	Gepr.	Contact:	%SACHBE%

	E	-	
	D	-	
	C	-	
	B	-	
Issu	07/06/2019	A	Changes as customer remarks
		Ind	Modification

ISO 14405 ISO 13920-A/E

Origin

Customer
BHARAT HEAVY ELECTRICALS LTD.

Designation
STRUCTURAL GA OF CG-99/18
BAPC 3A/B

Drawing No.
S18_45068_BAPC 3AB_LD_037_R1

Ref. -

Scale nts

Sheet/of 1 / 1

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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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

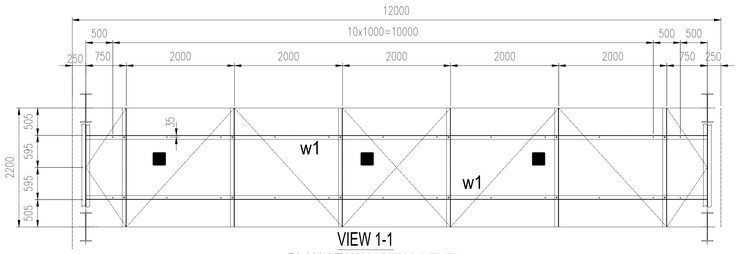
SCALE NTS
SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

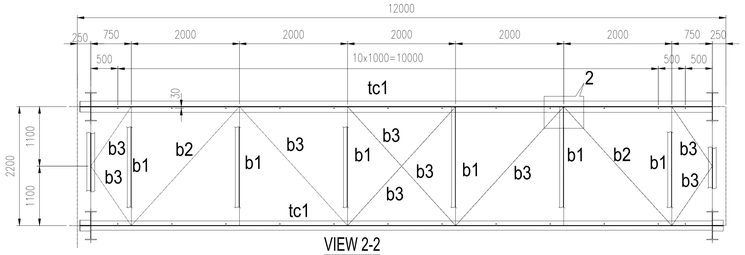
SUPERSEDES | BHEL JOB NO.: 702 | STATUS OF DRG.: FOR APPROVAL
SUPERSEDED BY | SIZE– A0 [1189 x 841] | PROJECT NO.: 618–450068
SYSTEM | ANNEX.: – | DRAWING NO.: | REV.: 1
CUSTOMER DRAWING NO.: Maitree–00–UEU–LC–177430–ISG–0

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

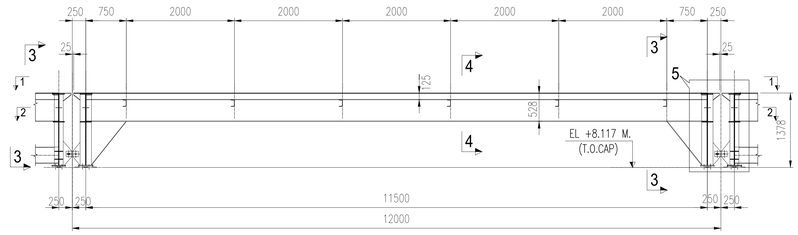
A0 [1189 x 841]



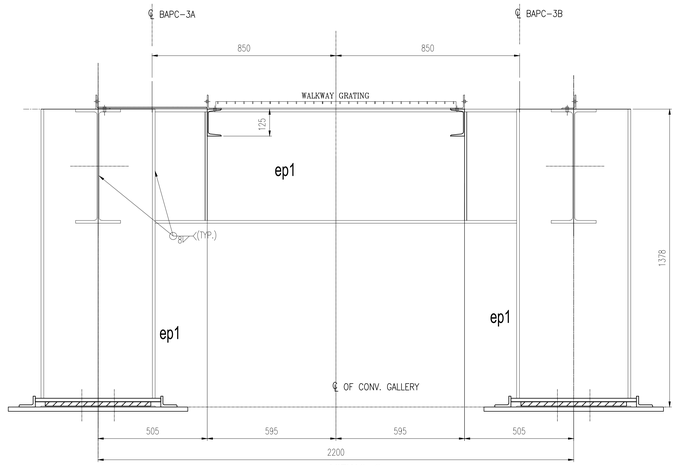
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



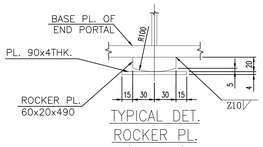
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



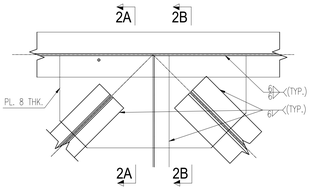
ELEVATION OF GALLERY GIRDER MKD. CG - 103/12
(SCALE -1:50)



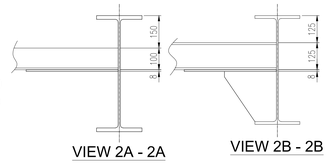
VIEW 3 - 3



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

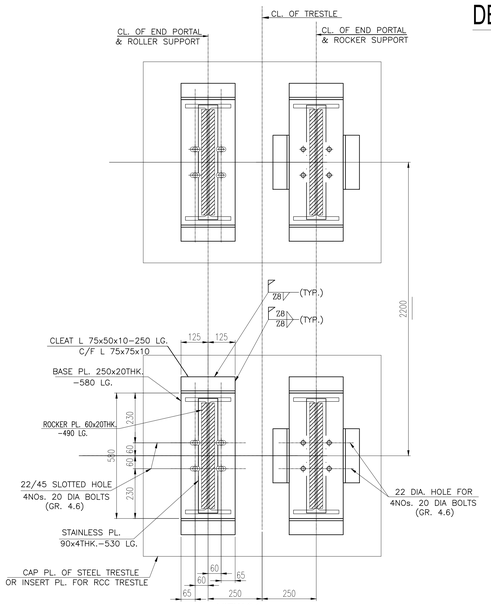


DETAIL - 2 (TYP.)

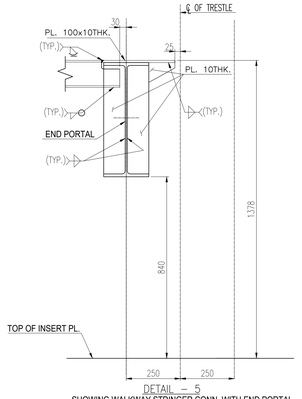


VIEW 2A - 2A

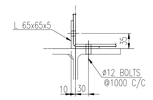
VIEW 2B - 2B



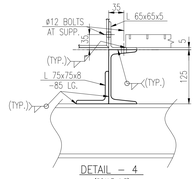
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



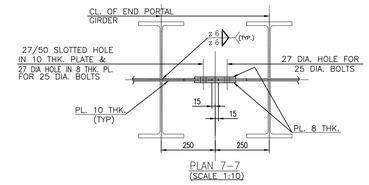
DETAIL - 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



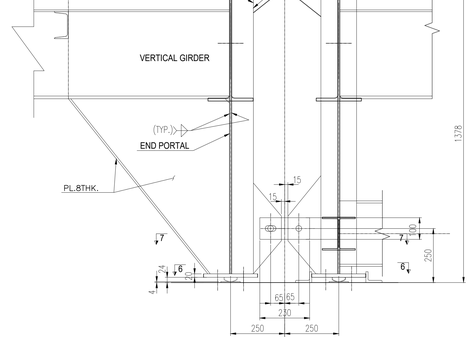
DETAIL - 6
(SCALE 1:5)



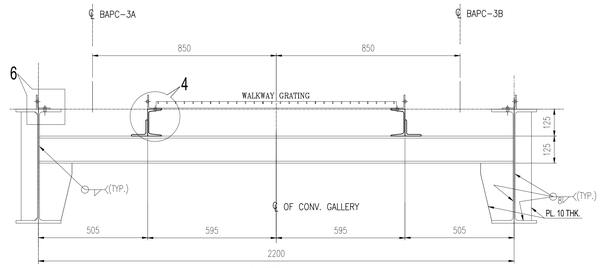
DETAIL - 4
(SCALE 1:5)



PLAN 7-7
(SCALE 1:10)



DETAIL - 5
SHOWING GIRDER CONN. WITH END PORTAL



VIEW 4-4

SCHEDULE OF MEMBERS FOR BAPC 12 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 T	80
		b3	2Ls 75x75x8 T	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	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. 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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/06/2019	Gegr.	Contact:	%SACHBE%

E	-		
D	-		
C	-		
B	-		
A	Changes as customer remarks	Basu	07/08/2019
Ind	Modification	Ref.:	-
Origin	-	Replacement for	-

ISO 14405 ISO 13920-A/E

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: GA OF GALLERY MKD.CG - 103/12
BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_038_R1

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Scale: nts
Sheet/of: 1 / 1
Replaced by: -

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS
SHEET: 1 OF 1

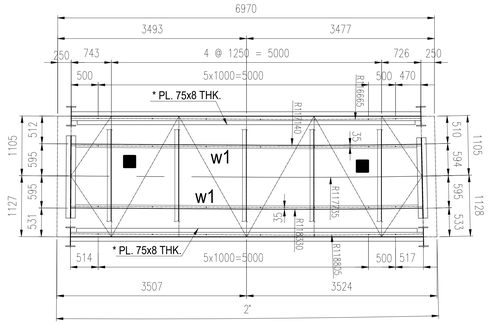
TITLE: STRUCTURAL GA OF BAPC 3A-3B

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: –
CUSTOMER DRAWING NO.:	Maitree-00-UEU-LC-177430-ISG-0

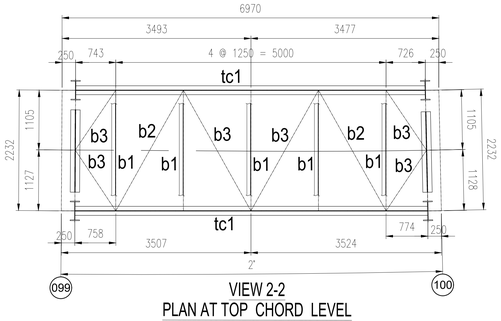
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068
DRAWING NO.:
REV.: 1

A0 [1189 x 841]

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

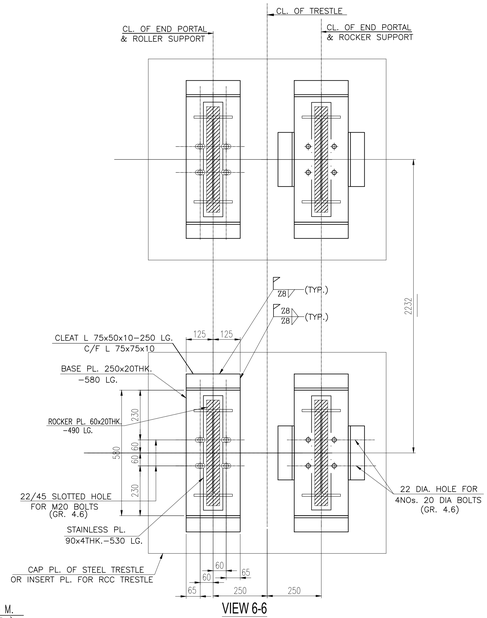


VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)

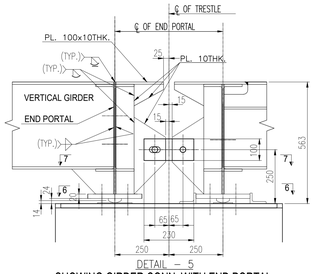


VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)

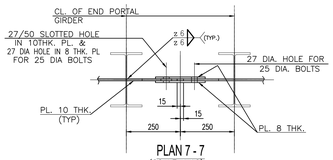
ELEVATION OF GALLERY GIRDER MKD. CG/106-7C
(SCALE -1:50)



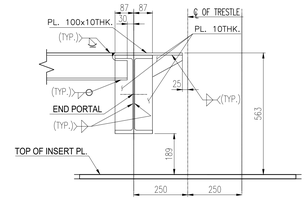
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



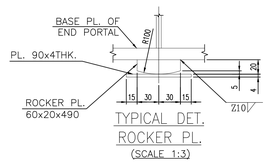
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



PLAN 7 - 7
(SCALE 1:10)

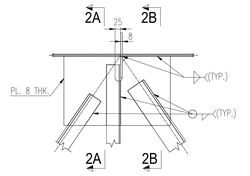


DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL

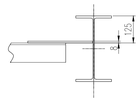


TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

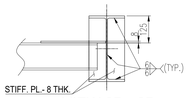
(NOTE: GUIDE MEMBER SI



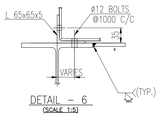
DETAIL - 2 (TYP.)



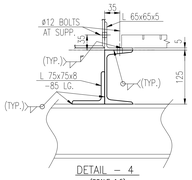
VIEW 2A - 2A



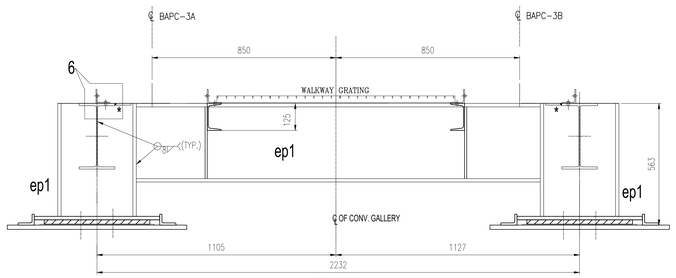
VIEW 2B - 2B



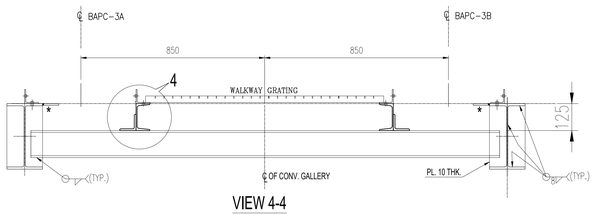
DETAIL – 6
(SCALE 1:5)



DETAIL – 4
(SCALE 1:5)



VIEW 3-3



VIEW 4-4

SCHEDULE OF MEMBERS FOR BAPC 7 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 L	75
		b3	L 65x65x6 L	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.		8 mm. THK.	
5	FLOOR PL.		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. 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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	08/08/2019	Gepr.	Contact:	%SACHBE%

Rev.	Date	Changes as customer remarks
E		
D		
C		
B		
A	27/08/2019	Changes as customer remarks

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

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-106/7C
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_039_R1

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Scale: n/a
Sheet/of: 1 / 1

REV.	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
4					
3					
2					
1					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

TITLE: STRUCTURAL GA OF BAPC 3A-3B

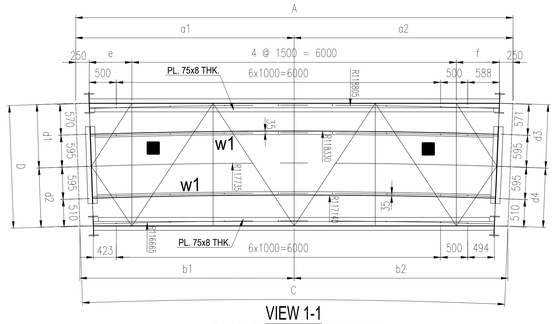
SCALE NTS | SHEET OF

SUPERSEDES	BHEL JOB NO.: 702
SUPERSEDED BY	SIZE- A0 [1189 x 841]
SYSTEM	ANNEX.: –

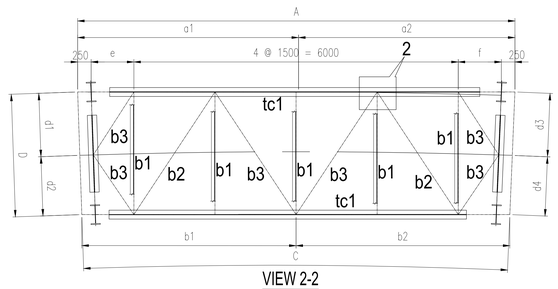
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618-450068
DRAWING NO.:
REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

AO [1189 x 841]

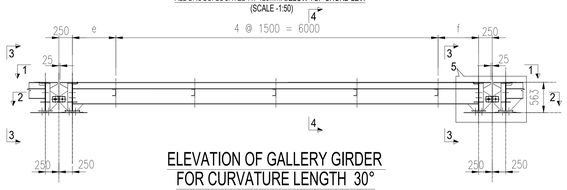
THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



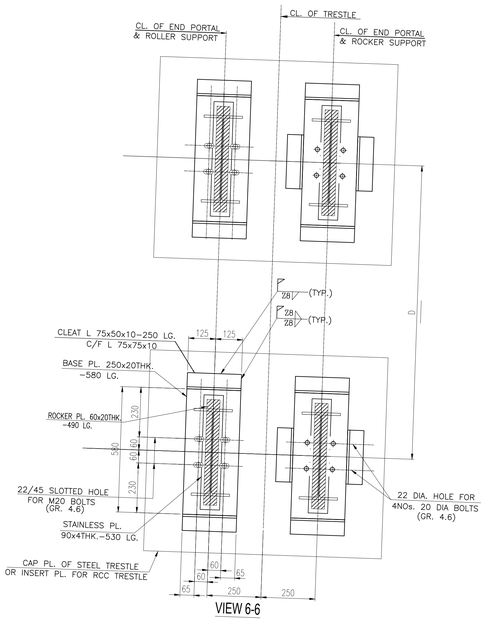
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



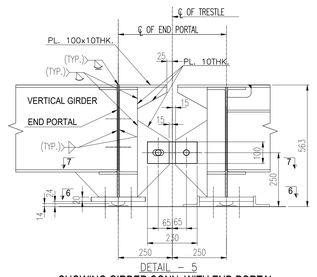
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)



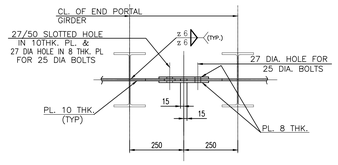
ELEVATION OF GALLERY GIRDER
FOR CURVATURE LENGTH 30°
(SCALE -1:50)

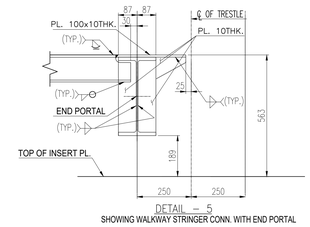


VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

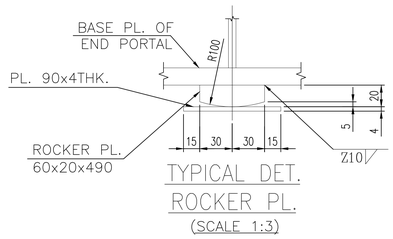


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL





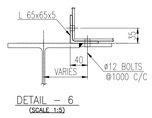
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



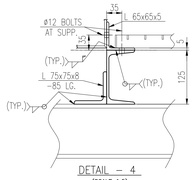
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 ∟	75
		b3	L 65x65x6 ∟	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

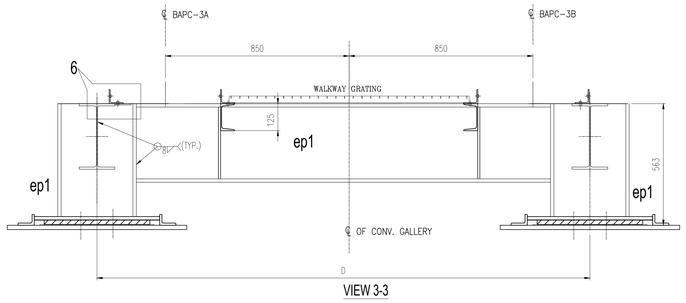
BASIC DIMENSION FOR 8M. GALLERIES ON CURVATURE												
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)										
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/107-8C	8071	4036	4036	3977	3956	3°	2270	1173	1097	1174	1096	788	783
2	CG/108-8C	8088	4044	4048	3963	3655	4°	2270	1174	1097	1174	1097	790	798
3	CG/109-8C	8080	4040	4040	3963	3963	4°	2270	1174	1097	1174	1097	790	790



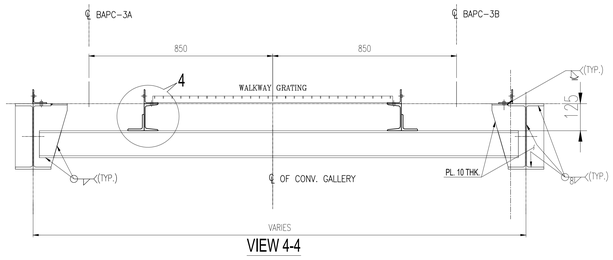
DETAIL – 6
(SCALE 1:5)



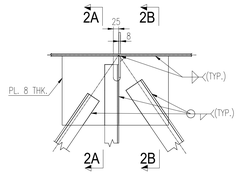
DETAIL – 4
(SCALE 1:5)



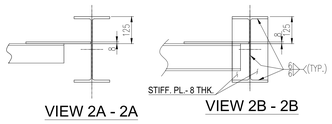
VIEW 3-3



VIEW 4-4



DETAIL - 2 (TYP.)



VIEW 2A - 2A
VIEW 2B - 2B

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

4					
3					
2					
1					Changes as per comments
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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE: STRUCTURAL GA OF BAPC 3A-3B
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: 702
STATUS OF DRG.: FOR APPROVAL
SIZE- A0 [1189 x 841]
PROJECT NO.: 618-450068
ANNEX.: –
DRAWING NO.:
REV.: 1
CUSTOMER DRAWING NO.: Maitree-00-UEU-LC-177430-ISG-0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	08/06/2019	Dept	Contract: %SACHBE%

		E	-
		D	-
		C	-
		B	-
Basu	07/06/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-A/E			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-107 , 108 & 109/8c
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_040_R1
Ref.: -
- Replacement for - Replaced by -

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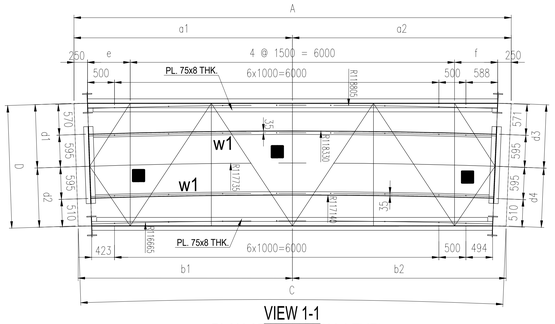
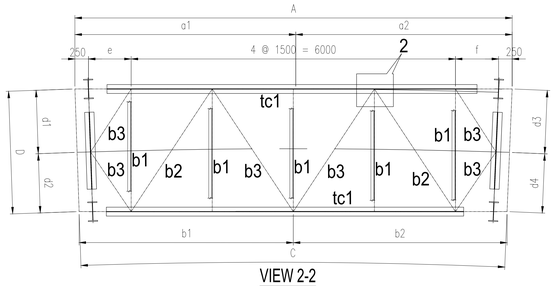
Scale: nts
Sheet/of 1 / 1

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

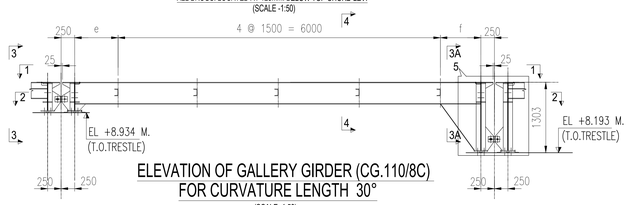
A0 [1189 x 841]



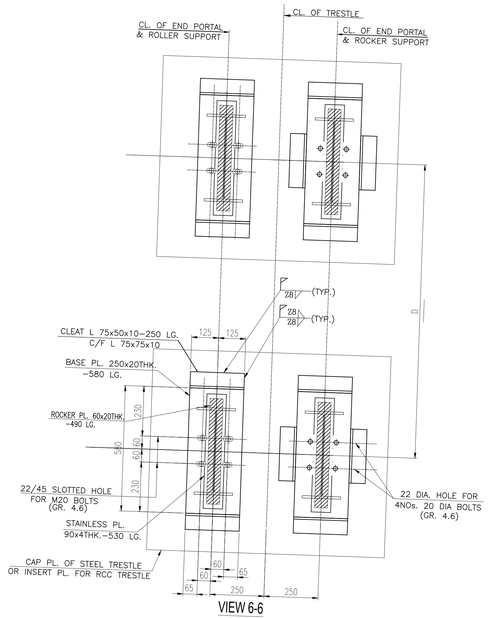
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



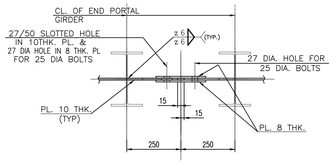
VIEW 2-2
PLAN AT TOP CHORD LEVEL
ALL BRCGS. LOCATED AT 125mm. BELOW TOP CHORD LEV.
(SCALE -1:50)

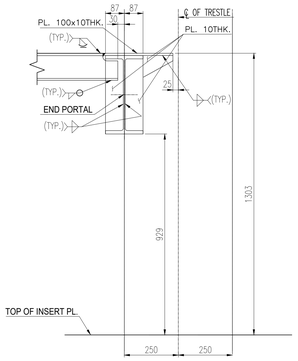


ELEVATION OF GALLERY GIRDER (CG.110/8C)
FOR CURVATURE LENGTH 30°
(SCALE -1:50)

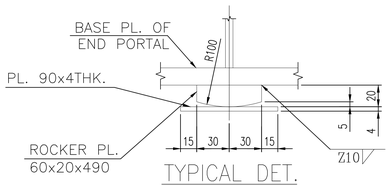


VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)





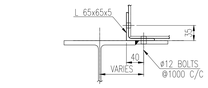
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



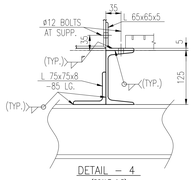
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)

SCHEDULE OF MEMBERS FOR BAPC 8 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 406x178x54	75
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	30
		b2	L 90x90x8 L	75
		b3	L 65x65x6 L	50
2	END PORTAL	ep1	UB 406x178x54	75
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

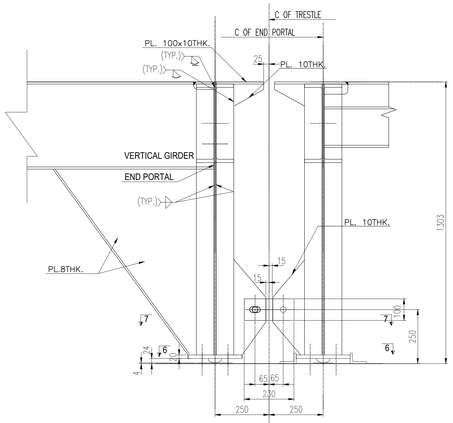
BASIC DIMENSION FOR 8M. GALLERIES ON CURVATURE												
SL.NO	GALLERY MKD.	DIMENSIONS (mm.)										
		A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/110-8C	8080	4040	4040	3963	3963	4°	2270	1174	1097	1174	1097	790	790



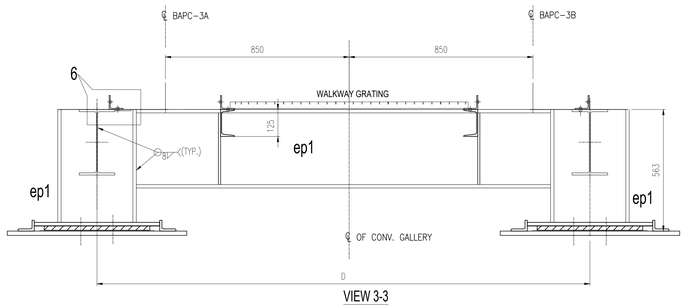
DETAIL – 6
(SCALE 1:5)



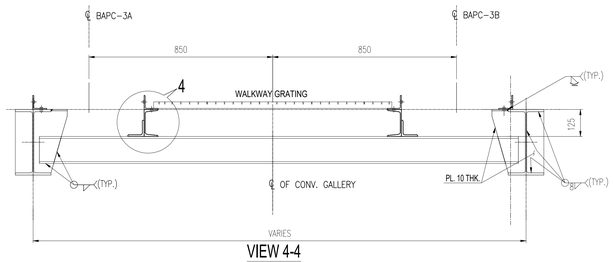
DETAIL – 4
(SCALE 1:5)



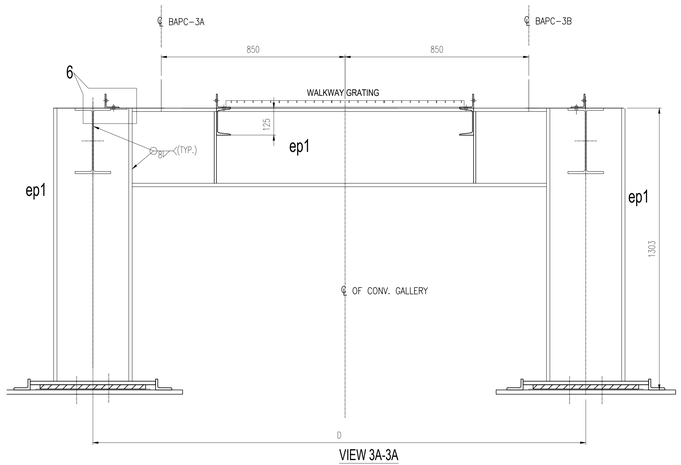
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



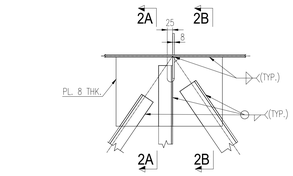
VIEW 3-3



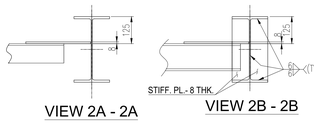
VIEW 4-4



VIEW 3A-3A



DETAIL - 2 (TYP.)



VIEW 2A - 2A
VIEW 2B - 2B

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	04/05/2019	Issued	Tech.Pos.: -	Designation	STRUCTURAL GA OF CG-110/8C
Mallick	08/06/2019	Dept	Contact: %SACHBE%		BAPC 3A/B
		E	-	Drawing No.	S18_45068_BAPC 3AB_LD_041_R1
		D	-		
		C	-		
		B	-		
Basu	07/08/2019	A	Changes as customer remarks	Scale	n/a
ISO 14405		Ind	Modification Ref.: -	Sheet/of	1 / 1
ISO 13920-A/E			Origin	- Replacement for -	Replaced by -

REV	DATE	DRN	CHD	APPD
4				
3				
2				
1				

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, BAGLADESH

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 1 OF 1

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-177368-ISG

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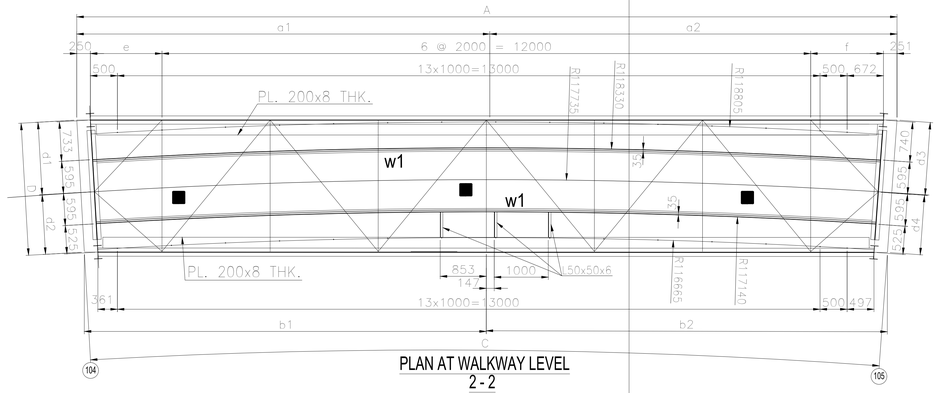
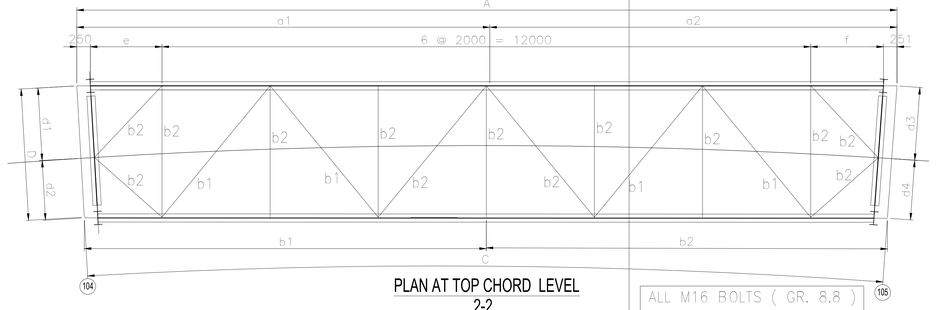
A0 [1189 x 841]

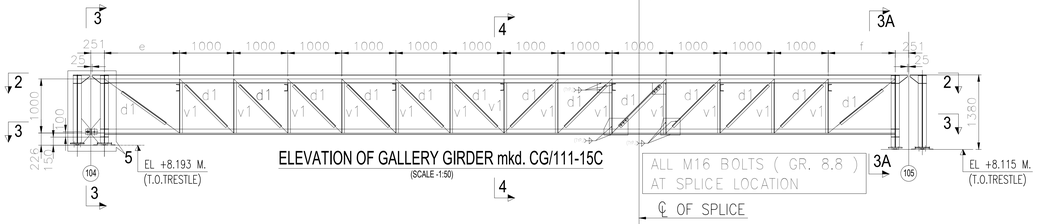


PLAN AT WALKWAY LEVEL
2-2



PLAN AT TOP CHORD LEVEL
2-2

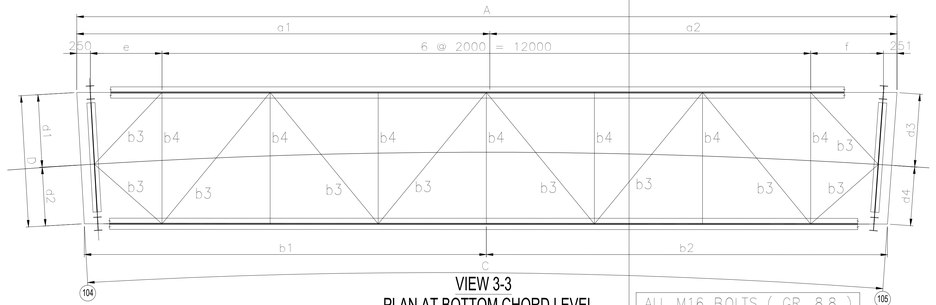
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



ELEVATION OF GALLERY GIRDER mkd. CG/111-15C
(SCALE -1:50)

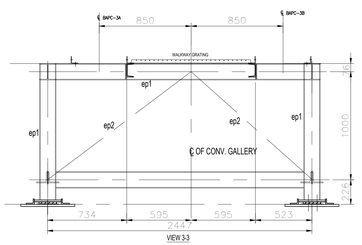
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION

℄ OF SPLICE

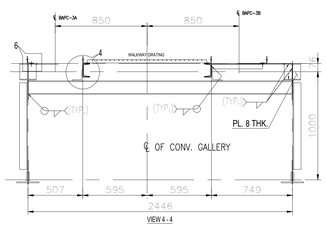


VIEW 3-3
PLAN AT BOTTOM CHORD LEVEL
(SCALE -1:50)

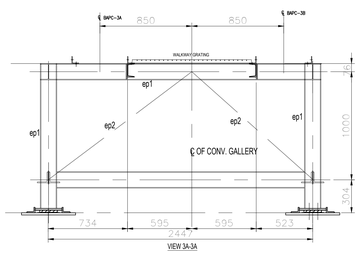
ALL M16 BOLTS (GR. 8.8)
AT SPLICE LOCATION



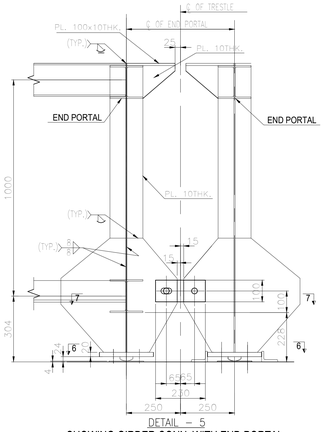
VIEW 3-3



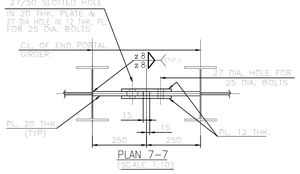
VIEW 4 - 4



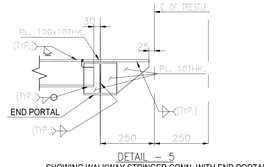
VIEW 3A-3A



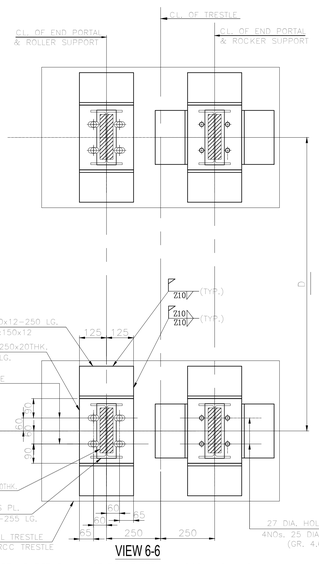
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



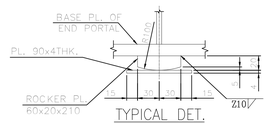
PLAN 7–7
(SCALE 1:10)



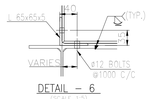
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



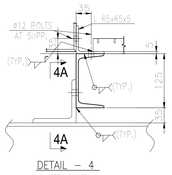
VIEW 6-6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



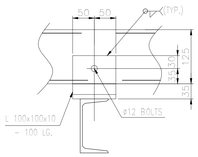
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



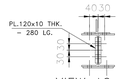
DETAIL – 6
(SCALE 1:10)



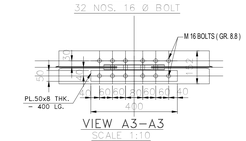
DETAIL – 4
(SCALE 1:10)



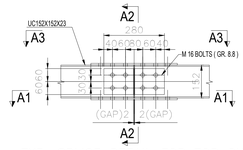
VIEW 4A–4A



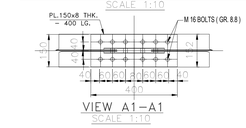
VIEW A2–A2
SCALE 1:10



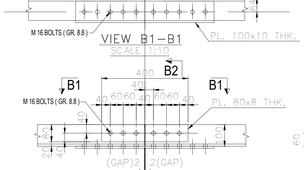
VIEW A3–A3
SCALE 1:10



TYP. SPLICE DETAIL FOR TOP CHORD
SCALE 1:10



VIEW A1–A1
SCALE 1:10



VIEW B1–B1
SCALE 1:10

TYP. SPLICE DETAIL FOR BOTTOM CHORD
SCALE 1:10

VIEW B2–B2
SCALE 1:10

SCHEDULE OF MEMBERS FOR BAPC 15 M. GALLERY

SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UC 152x152x23	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 150	140
		b2	ISMC 125	100
2	BOTTOM CHORD	bc1	2Ls 100x100x10 ⊥	150
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b3	L 65x65x6 L	20
		b4	L 50x50x6 L	20
3	VERTICAL	v1	ISMC 75	120
4	DIAGONAL	d1	2Ls 50x50x6 ⊥	180
5	END PORTAL	ep1	UB 254x146x31	150
		ep2	2Ls 75x75x8 ⊥	150
		ep3	UC 152x152x23	150
6	WALKWAY STRINGERS	w1	ISMC 125	100
7	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		

BASIC DIMENSION FOR 15M. GALLERIES ON CURVATURE

SL.NO	GALLERY MKD.	DIMENSIONS (mm.) A	a1	a2	b1	b2	C	D	d1	d2	d3	d4	e	f
1	CG/111–15C	15173	7587	7587	7436	7421	7°	2450	1346	1104	1348	1105	1327	1346

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	04/05/2019	Issued	Tech.Pos.: -
Mallick	05/08/2019	Gepr.	Contact: %SACHBE%

E			
D			
C			
B			
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind.	Modification Ref.: -
ISO 13920-A/E			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-111/15C
BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_042_R1

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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

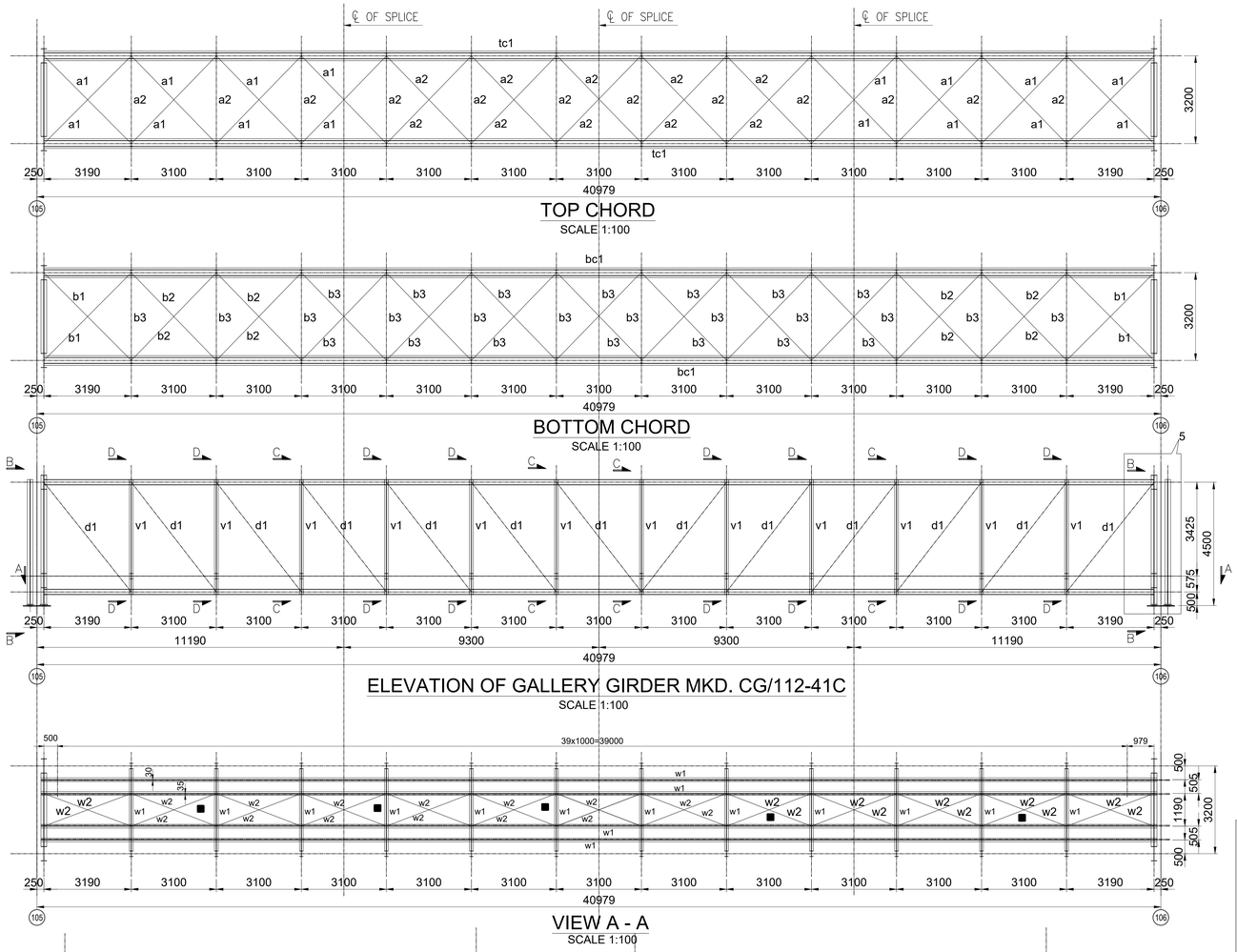
	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. / BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
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-177368-ISG

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]

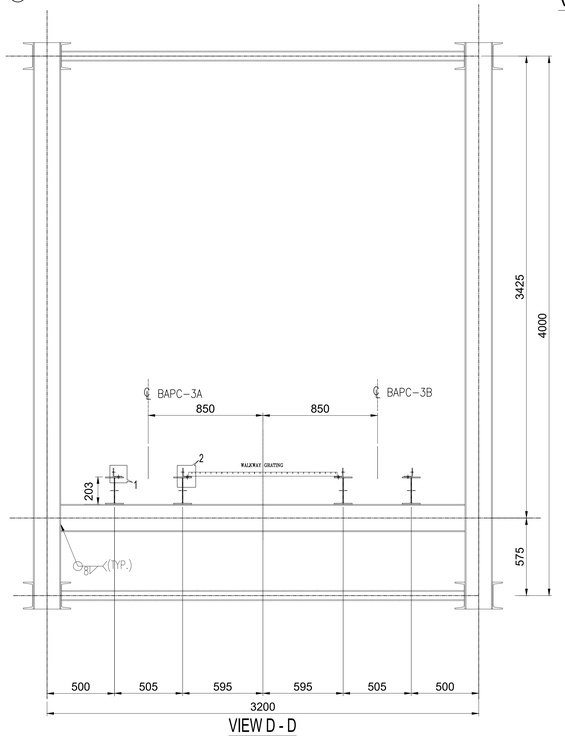


TOP CHORD
SCALE 1:100

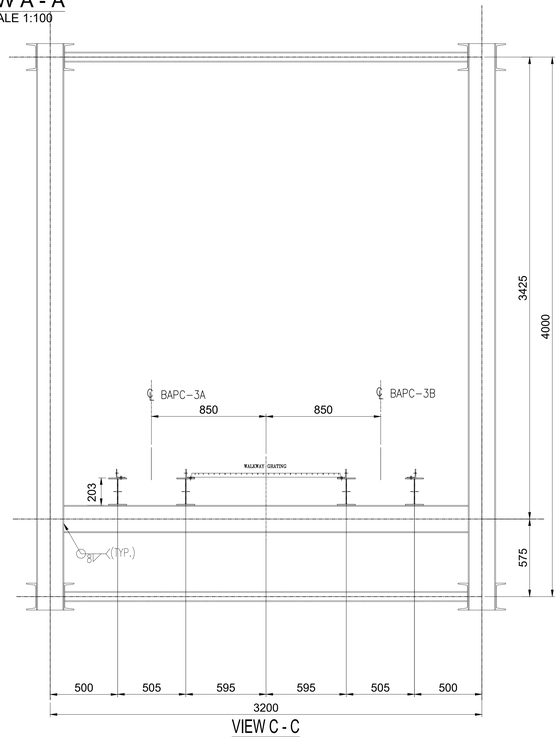
BOTTOM CHORD
SCALE 1:100

ELEVATION OF GALLERY GIRDER MKD. CG/112-41C
SCALE 1:100

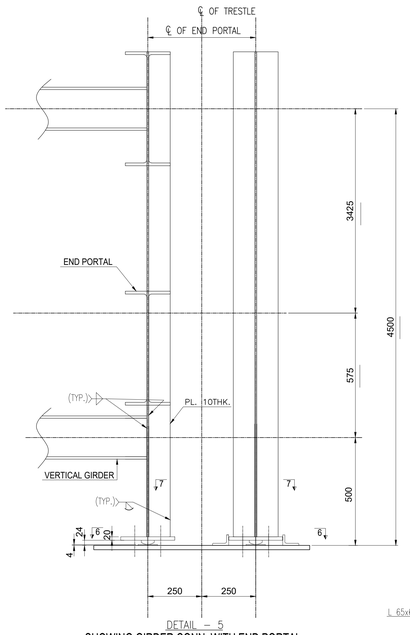
VIEW A - A
SCALE 1:100



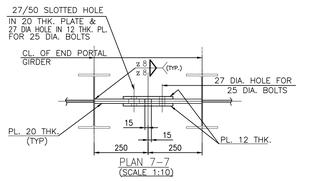
VIEW D - D



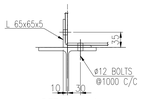
VIEW C - C



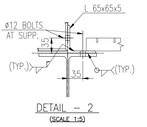
DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL



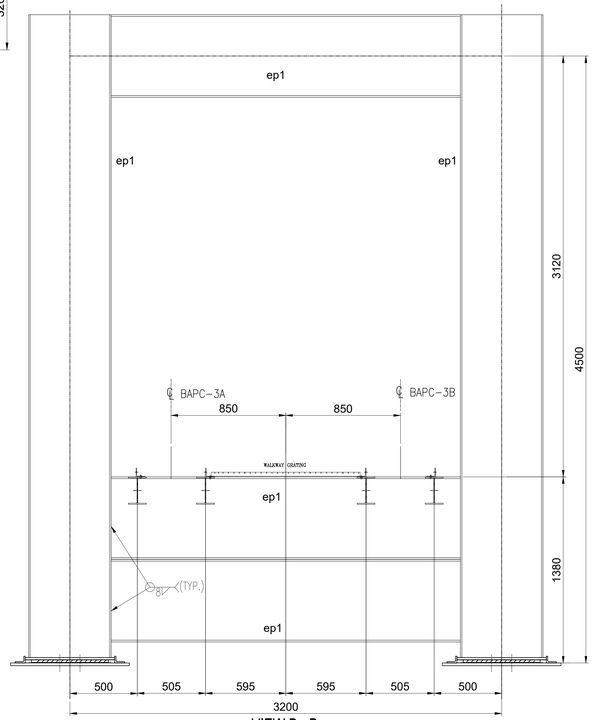
PLAN 7–7
(SCALE 1:10)



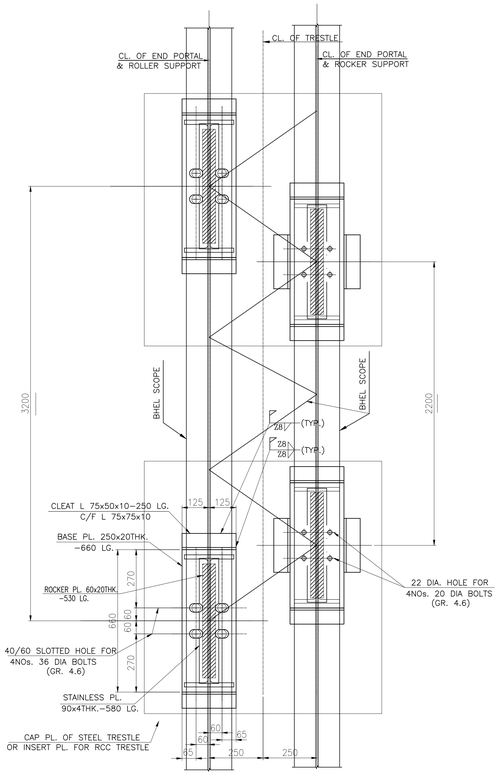
DETAIL – 1
(SCALE 1:5)



DETAIL – 2
(SCALE 1:5)



VIEW B - B



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

SCHEDULE OF MEMBERS FOR BAPC 41 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	ISMC 200 (203 ⌶ ⌶)	200
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	a1	2 ISMC 125 ⊐⊏	100
		a2	2 ISMC 75 ⊐⊏	90
2	BOTTOM CHORD	bc1	ISMC 200 (203 ⌶ ⌶)	200
	HORIZONTAL GIRDERS OF BOTTOM CHORD LEVEL	b1	2 ISMC 125 ⊐⊏	180
		b2		180
		b3	2 ISMC 75 ⊐⊏	90
3	VERTICAL	v1	UB 203x133x25	200
4	DIAGONAL	d1	2Ls 75x75x8 T	300
5	END PORTAL	ep1	UB 610x229x125	450
6	WALKWAY STRINGERS	w1	UB 203x133x25	120
		w2	ISMC 125 ⊐	300
7	FLOOR PL.	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. 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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE NTS | SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES: BHEL JOB NO.: 702 | 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–UEU–LC–177430–ISG–0

BEUMERGROUP

Name	Date	%AT%	Order No.: 618-450068
Basu	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/06/2019	Gepr.	Contact: %SACHBE%

-		E	-
-		D	-
-		C	-
-		B	-
Basu	07/06/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification
ISO 13920-A/E			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: GA OF GALLERY MKD. CG/112-41C

BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_043_R1

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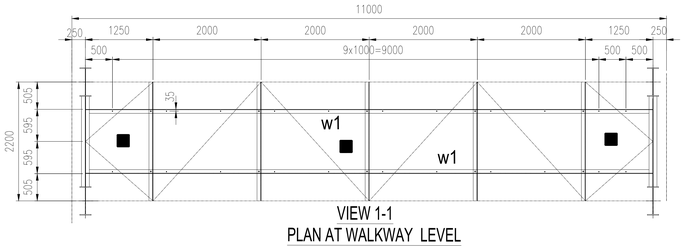
Scale: nts | Sheet/of: 1 / 1

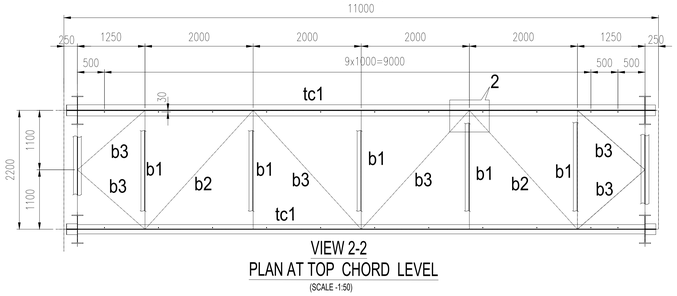
Replacement for: - | Replaced by: -

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

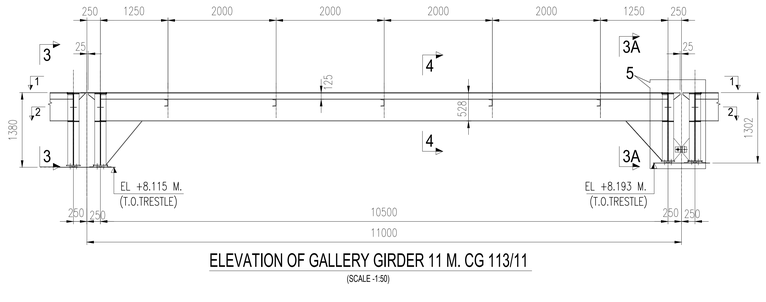
[A0 [1189 x 841]]



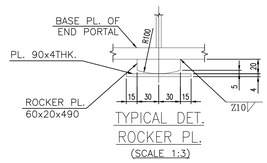
VIEW 1-1
PLAN AT WALKWAY LEVEL
(SCALE -1:50)



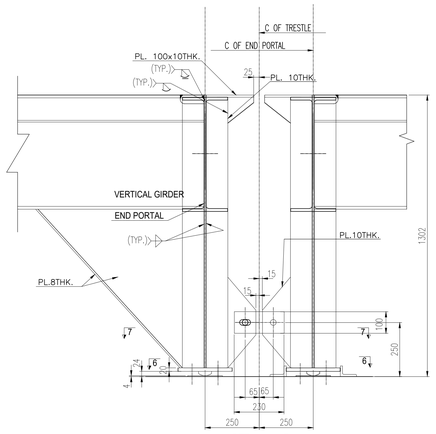
VIEW 2-2
PLAN AT TOP CHORD LEVEL
(SCALE -1:50)



ELEVATION OF GALLERY GIRDER 11 M. CG 113/11
(SCALE -1:50)

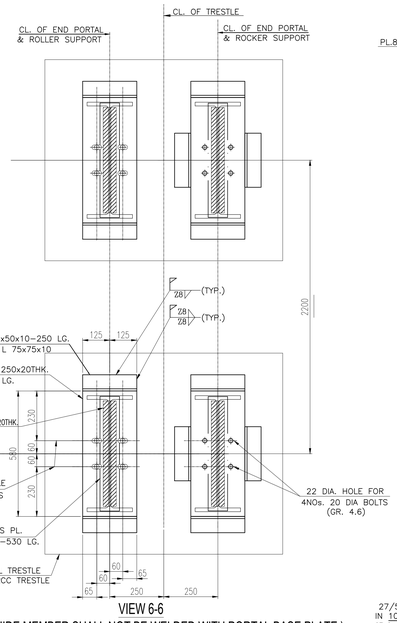


TYPICAL DET. ROCKER PL.
(SCALE 1:3)

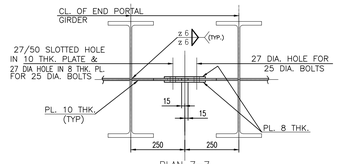


DETAIL – 5
SHOWING GIRDER CONN. WITH END PORTAL

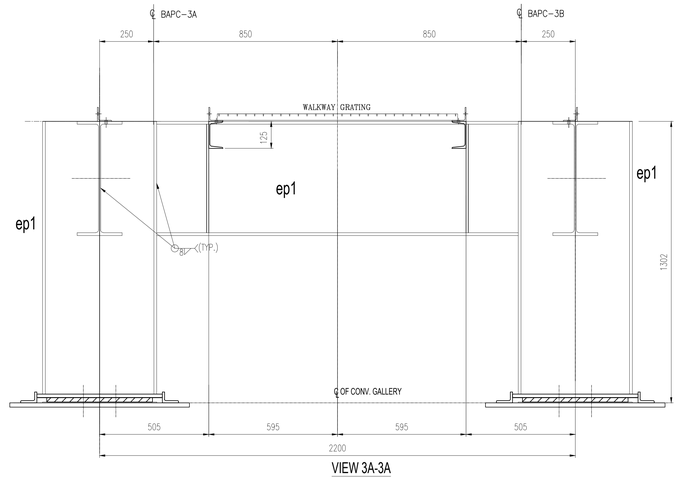
SCHEDULE OF MEMBERS FOR BAPC 11 M. GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 533x210x101	80
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	b1	ISMC 125	80
		b2	2Ls 100x100x10 ⊥	80
		b3	2Ls 75x75x8 ⊥	60
2	END PORTAL	ep1	UB 533x210x101	80
3	WALKWAY STRINGERS	w1	ISMC 125	15
4	GST. PL.	8 mm. THK.		
5	FLOOR PL.	FLOORING WITH GRATING.		



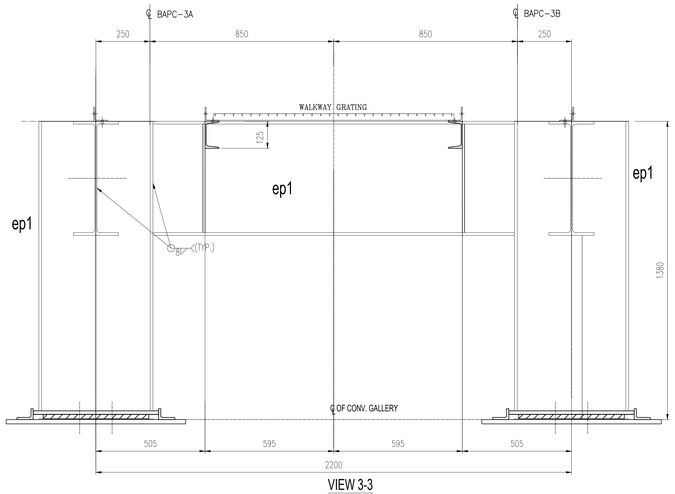
VIEW 6-6
(NOTE: GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)



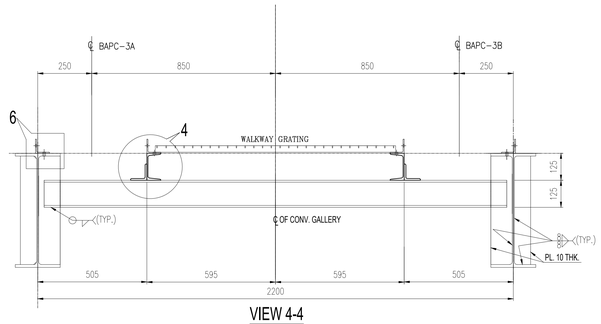
PLAN 7–7
(SCALE 1:10)



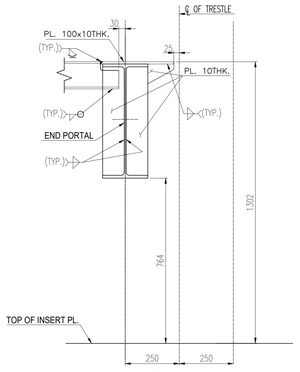
VIEW 3A-3A



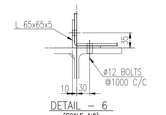
VIEW 3-3



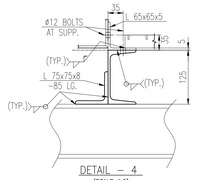
VIEW 4-4



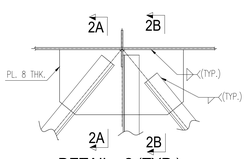
DETAIL – 5
SHOWING WALKWAY STRINGER CONN. WITH END PORTAL



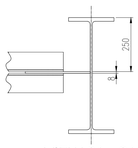
DETAIL – 6
(SCALE 1:5)



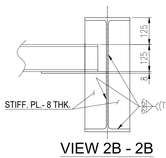
DETAIL – 4
(SCALE 1:5)



DETAIL - 2 (TYP.)



VIEW 2A - 2A



VIEW 2B - 2B

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	04/05/2019	Issued	Tech.Pos.:	-
Mallick	06/08/2019	Gepr.	Contact:	%SACHBE%

		E	-
		D	-
		C	-
		B	-
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405		Ind	Modification Ref.: -
ISO 13920-A/E			Origin -

Customer: BHARAT HEAVY ELECTRICALS LTD.
Designation: STRUCTURAL GA OF CG-113/11
BAPC 3A/B
Drawing No.: S18_45068_BAPC 3AB_LD_044_R1

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Scale: n/a
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

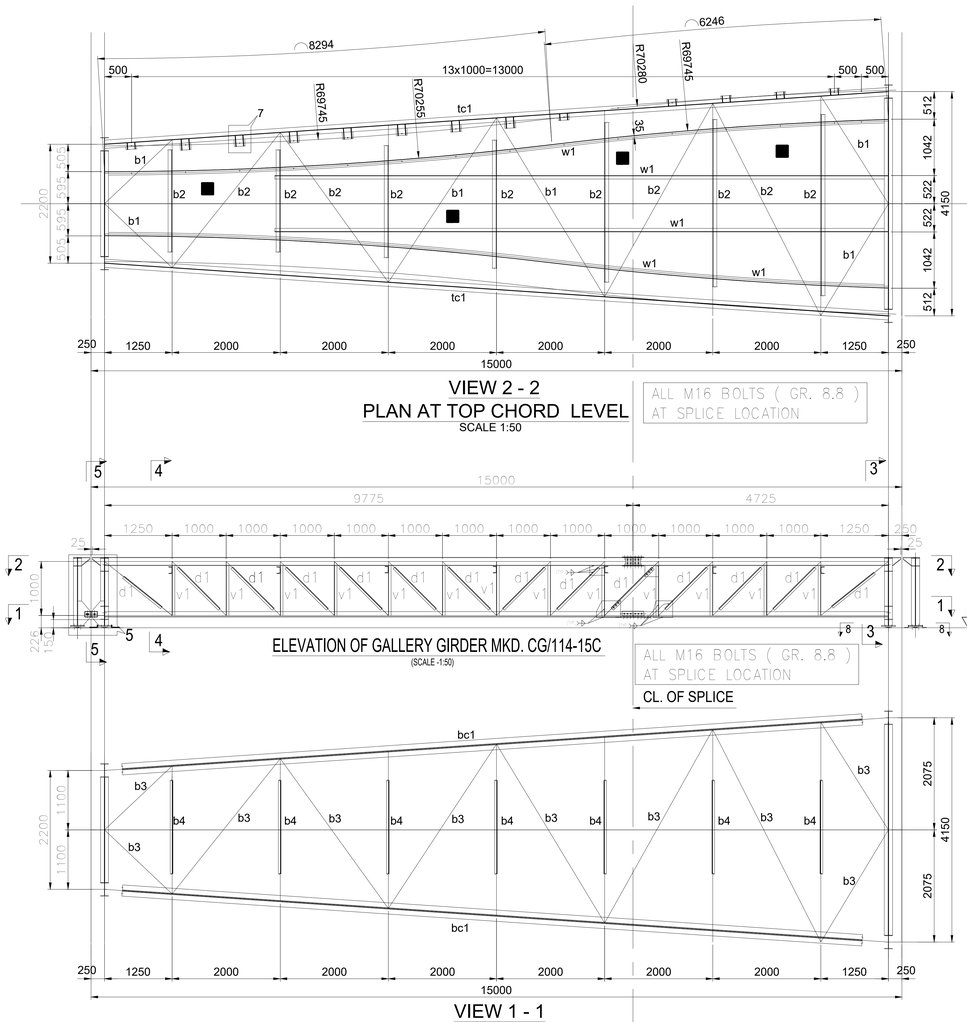
EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	DATE
DRN	–	10.12.2018
CHD	–	11.12.2018
APPD	–	11.12.2018

PACKAGE VENDOR: BEUMER INDIA PVT. LTD. BEUMER Maschinefabrik,Germany
SCALE: NTS
SHEET 1 OF 1
TITLE:
SUPERSEDES
SUPERSEDED BY
SYSTEM
BHEL JOB NO.: –
SIZE– A0 [1189 x 841]
ANNEX.: –
DRAWING NO.: ----
STATUS OF DRG.: FOR APPROVAL
PROJECT NO.: 618–450068
REV.: 1
CUSTOMER DRAWING NO.: Maitree–00–UED–LC–177368–ISG

A0 [1189 x 841]

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM



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

ALL M16 BOLTS (GR. 8.8) AT SPLICE LOCATION

ELEVATION OF GALLERY GIRDER MKD. CG/114-15C
(SCALE -1:50)

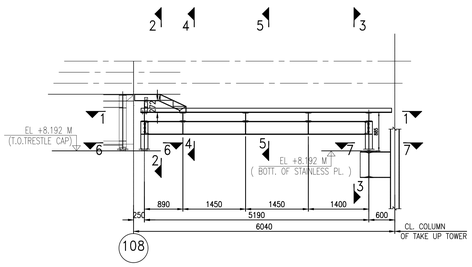
ALL M16 BOLTS (GR. 8.8) AT SPLICE LOCATION

CL. OF SPLICE

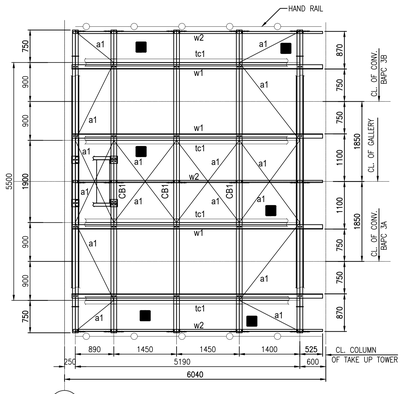
VIEW 1 - 1
PLAN AT BOTTOM CHORD LEVEL
SCALE 1:50

VIEW A2–A2
SCALE 1:10
32 NOS. 16 Ø BOLT

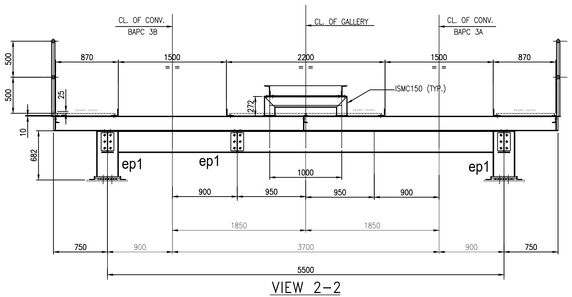
M 16 BOLTS (GR. 8.8)
PL.50x8 THK.
- 400 LG.
50
50
50



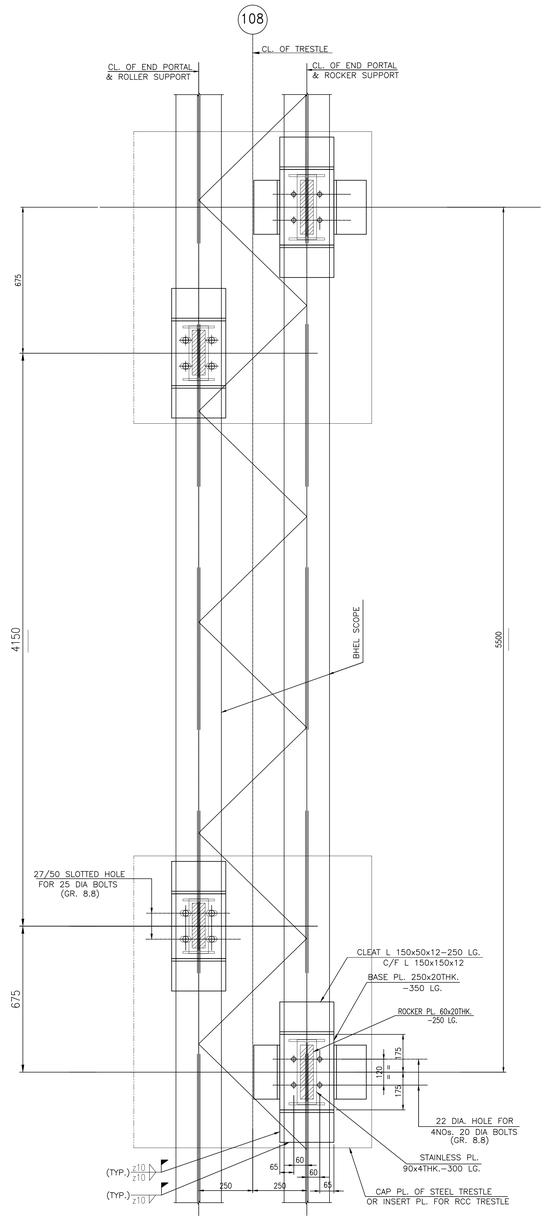
ELEVATION OF GALLERY GIRDER MKD. CG/116-6.04



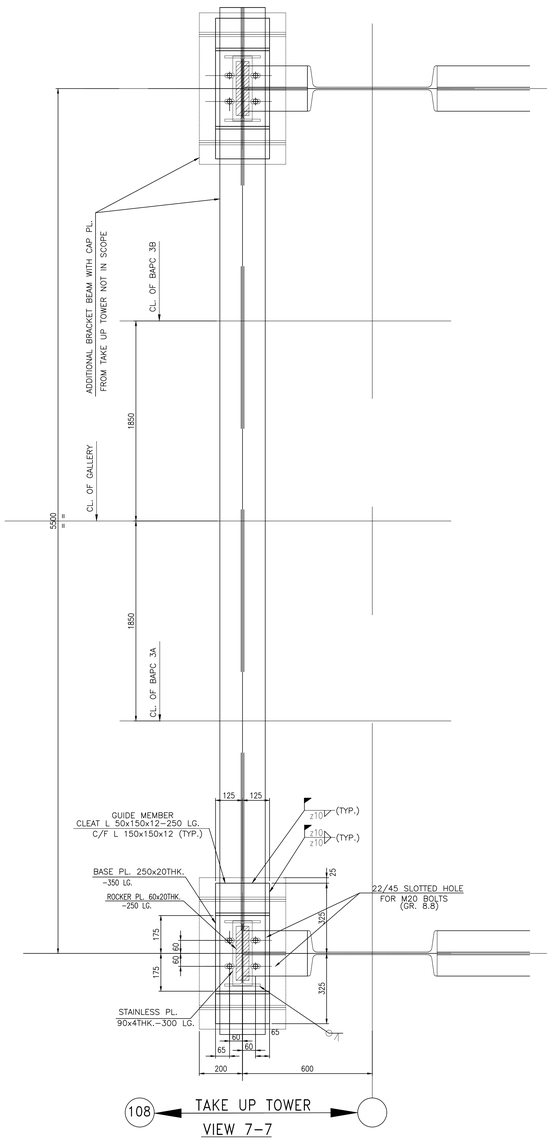
VIEW 1–1
PLAN AT TOP CHORD LEVEL
PLAN BRACINGS SHALL BE CONNECTED TO THE BEAM AT 203 MM BELOW WALKWAY LEVEL
(SCALE –1:50)



VIEW 2–2
(SCALE –1:30)

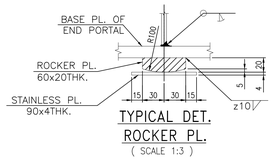


VIEW 6–6
(GUIDE MEMBER SHALL NOT BE WELDED WITH PORTAL BASE PLATE)

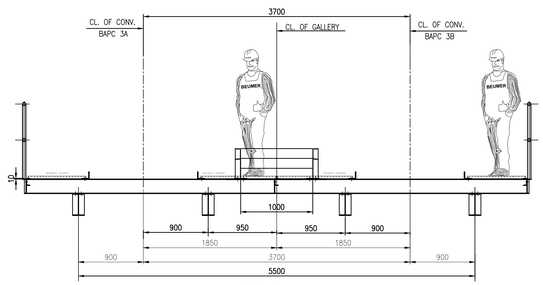


VIEW 7–7

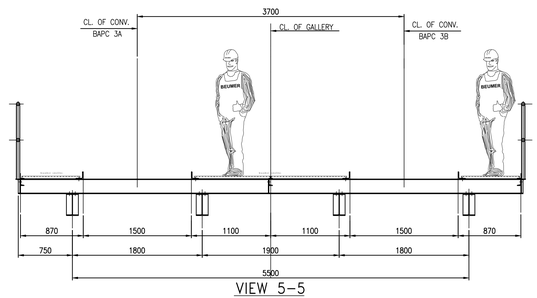
SCHEDULE OF MEMBERS FOR LSPC CG/116–6.04 GALLERY				
SL.NO	ERECTION MARKS		SECTION	FORCE (kN) AXIAL
1	TOP CHORD	tc1	UB 305x165x40	15
	HORIZONTAL GIRDERS OF TOP CHORD LEVEL	tc2	UB 305x165x40	25
		a1	L 65x65x6 ⌜	15
	CROSS BEAM	CB1	UB 203x133x25	15
2	END PORTAL	ep1	UB 305x165x40	45
3	WALK WAY STRINGER	w1	L 100x100x10 ⌞	10
		w2	ISMC 100 ⌐	10
4	FLOOR PL.	FLOORING WITH GRATING.		
5	TOP RAIL	40 NB (M) PIPE		
6	MID RAIL			
7	POST			
8	TOE GUARD	SKELP 121X3.25 THK.		
9	GST. PLATE 8 THK.			



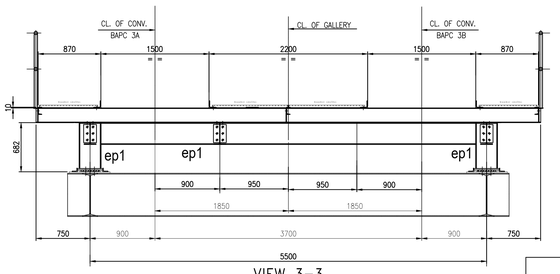
TYPICAL DET.
ROCKER PL.
(SCALE 1:3)



VIEW 4–4
(SCALE –1:30)



VIEW 5–5
(SCALE –1:30)



VIEW 3–3
(SCALE –1:30)

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	04/05/2019	Issued	Tech.Pos.: -
Mallick	06/06/2019	Engr.	Contact: %SACHBE%

		E	-
		D	-
		C	-
		B	-
Basu	07/08/2019	A	Changes as customer remarks
ISO 14405 ⓓ ⊕⊕		Ind	Modification
ISO 13920-A/E			Ref.: -
			Origin

Customer: BHARAT HEAVY ELECTRICALS LTD.

Designation: STRUCTURAL GA OF CG-116/6.04
BAPC 3A/B

Drawing No.: S18_45068_BAPC 3AB_LD_046_R1

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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					Changes as per 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	–	19.06.2019
CHD	–	19.06.2019
APPD	–	19.06.2019

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

SCALE: NTS
SHEET 1 OF 1

TITLE: STRUCTURAL GA OF BAPC 3A–3B

SUPERSEDES	BHEL JOB NO.: 702	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–UEU–LC–177430–ISG–0		

THIS CAD DRAWING MAY ONLY BE ALTERED WITH A CAD SYSTEM

A0 [1189 x 841]