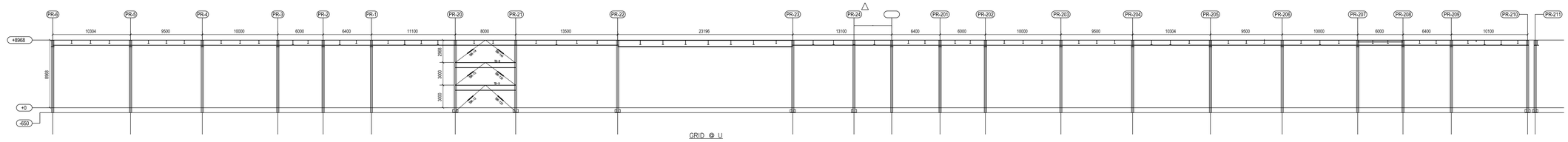
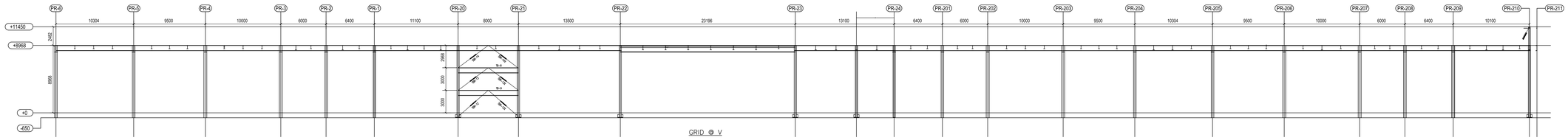
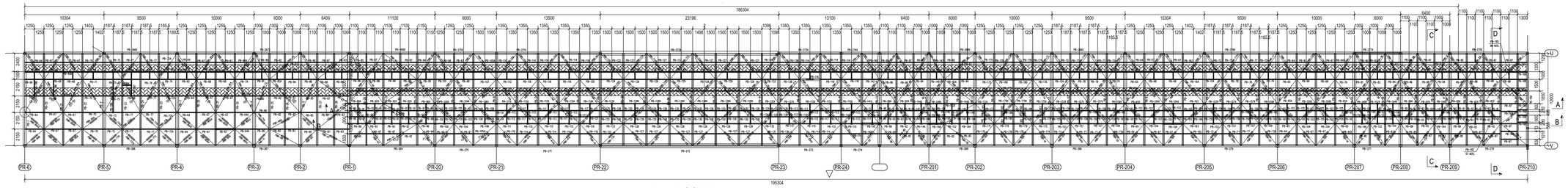


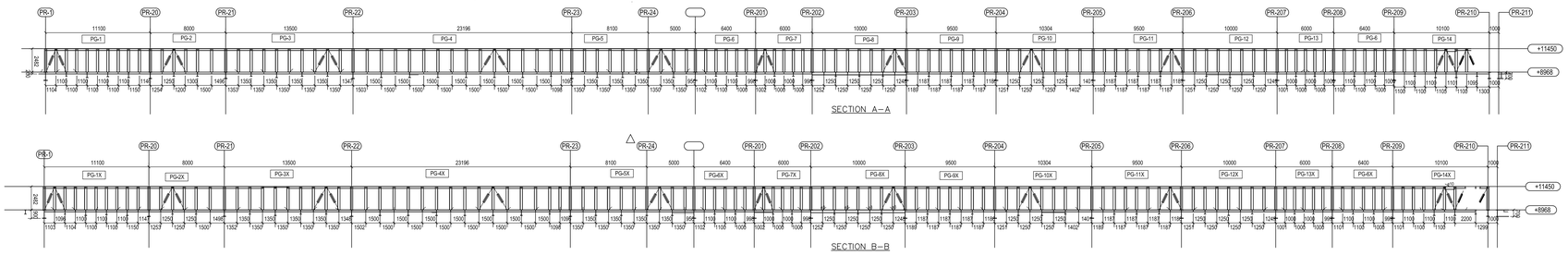
GRID @ U



GRID @ V

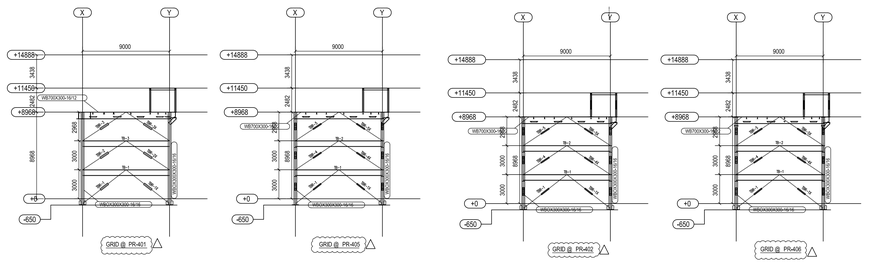


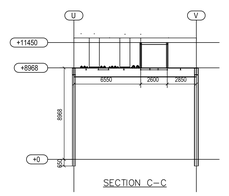
PLAN @ (+) 8960



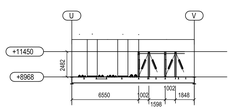
SECTION A–A

SECTION B–B

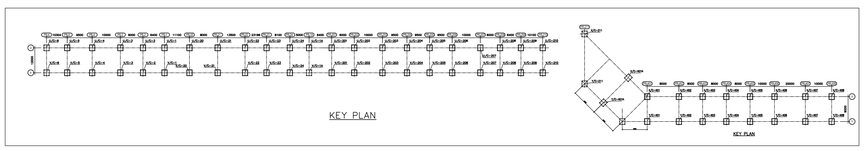




SECTION C–C



SECTION D–D



KEY PLAN

KEY PLAN

NOTES: –

1. ALL DIMENSIONS ARE IN m.m. AND LEVELS ARE IN METER.
2. ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
3. ALL PERMANENT BOLT HOLES ARE 17.5ø FOR M16 H.T. BOLTS (GR.8.8)(U.N.O.)
4. ALL PERMANENT BOLTS SHOWN THUS----●----
5. ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
6. THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG. No. Maitree-00-UET-LC-177566-ISG-1
9. ADDITIONAL SPLICE FOR MEMBER MAY BE PROVIDED BASED ON AVAILABLE LENGTH/REQUIRED OF MATERIAL & APPROVED FROM DESIGN ENGINEER.
10. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.
11. MEMBER TO BE SUITABLY NOTCHED AT SITE TO SUIT ANY OBSTRUCTION WHILE LAYING.
12. ERECTION BOLT SHOWN THUS .....◇.....

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.
CODE 4430			ITEM NO.

RESTRICTED USE

NO.OF ITEMS

TITLE: FLY ASH PIPE RACK U–V ROW
MARKING PLAN & ELEVATION

DRAWING NO. 0-96132-1-0001

REV. 00

SHEET NO. 01 NO OF SHEETS 02

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GRID @ U

GRID @ V

PLAN @ (+) 8960

SECTION A–A

SECTION B–B

GRID @ PR-401

GRID @ PR-405

GRID @ PR-402

GRID @ PR-406

SECTION C–C

GRID @ PR-403

GRID @ PR-407

GRID @ PR-404

GRID @ PR-408

SECTION D–D

KEY PLAN

KEY PLAN

NOTES: –

1. ALL DIMENSIONS ARE IN m.m. AND LEVELS ARE IN METER.
2. ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
3. ALL PERMANENT BOLT HOLES ARE 17.5ø FOR M16 H.T. BOLTS (GR.8.8)(U.N.O.)
4. ALL PERMANENT BOLTS SHOWN THUS----●
5. ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
6. THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG. No. Maitree-00-UET-LC-177566-ISG-1
9. ADDITIONAL SPLICE FOR MEMBER MAY BE PROVIDED BASED ON AVAILABLE LENGTH/REQUIRED OF MATERIAL & APPROVED FROM DESIGN ENGINEER.
10. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.
11. MEMBER TO BE SUITABLY NOTCHED AT SITE TO SUIT ANY OBSTRUCTION WHILE LAYING.
12. ERECTION BOLT SHOWN THUS ....

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
01	29.09.19				ERECTION MARKINGS CORRECTED AS HIGHLIGHTED

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
MARKING PLAN & ELEVATION

DRAWING NO.
0-96132-1-0001
REV. 01

SHEET NO. 01 NO OF SHEETS 02

Sep Mon 30 14:14 2019
Printed by : KARTHIKE MAITA-FM2254 / 6234399 on 30-09-19 15:18:09
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Therefore signatures are not essentially required.

3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–20
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–22
2 NOS. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–23

2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–21
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–24

2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–26

1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–25
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–27

1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–28

1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–29

SECTION 1–1

PLAN 2–2 (FOR PB–20)

PLAN 3–3 (FOR PB–20)

PLAN 4–4 (FOR PB–21)

PLAN 5–5 (FOR PB–21)

PLAN 6–6 (FOR PB–21)

PLAN 2–2 (FOR PB–22)

PLAN 3–3 (FOR PB–23)

PLAN 4–4 (FOR PB–24)

PLAN 5–5 (FOR PB–24)

PLAN 6–6 (FOR PB–24)

PLAN 2–2 (FOR PB–23)

PLAN 7–7 (FOR PB–25)

PLAN 7–7 (FOR PB–27)

PLAN 8–8 (FOR PB–25)

PLAN 8–8 (FOR PB–27)

PLAN 9–9 (FOR PB–28)

PLAN 10–10 (FOR PB–28)

PLAN 11–11 (FOR PB–29)

PLAN 12–12 (FOR PB–29)

PLAN 13–13 (FOR PB–29)

PLAN A–A

TYP. DOUBLE CLT. CONN.

DETAIL OF ITEM NO. 4,7,19

DETAIL OF ITEM NO. 5,10

DETAIL OF ITEM NO. 6,12,20

DETAIL OF ITEM NO. 8

DETAIL OF ITEM NO. 9

DETAIL OF ITEM NO. 11

DETAIL OF ITEM NO. 13

DETAIL OF ITEM NO. 14

DETAIL OF ITEM NO. 15

DETAIL OF ITEM NO. 18

DETAIL OF ITEM NO. 21

DETAIL OF ITEM NO. 22

DETAIL OF ITEM NO. 23

DETAIL OF ITEM NO. 24

DETAIL OF ITEM NO. 28

DETAIL OF ITEM NO. 29

DETAIL OF ITEM NO. 30

DETAIL OF ITEM NO. 31,36

DETAIL OF ITEM NO. 32

DETAIL OF ITEM NO. 33

DETAIL OF ITEM NO. 34

DETAIL OF ITEM NO. 35

DETAIL OF ITEM NO. 37

DETAIL OF ITEM NO. 39

DETAIL OF ITEM NO. 40

DETAIL OF ITEM NO. 41

DETAIL OF ITEM NO. 42

DETAIL OF ITEM NO. 43

DETAIL OF ITEM NO. 44

DETAIL OF ITEM NO. 46

DETAIL OF ITEM NO. 47

DETAIL OF ITEM NO. 48

DETAIL OF ITEM NO. 49

DETAIL OF ITEM NO. 50

DETAIL OF ITEM NO. 51

DETAIL OF ITEM NO. 52

PB–1 TO PB–63 & PB–189 TO PB–197 (FOR WAKWAYA)

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kg.)	WEIGHT FOR ONE ASSEMBLY (kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (kg.)	EREC. MKD. WT.(kg.)	REMARKS
PB-20	1	NPB 450x190x77.57	11954	1	77.57	927.27		3		2781.82		
	2	L100x100x10	290	2	14.90	8.64		6		25.93		
	3	L100x100x10	140	12	14.90	25.03		36		75.10		
	4	PL 353x12	518	4	94.20	57.09		12	315526	171.28		
	5	PL 343x12	363	2	94.20	18.13		6	99240	54.39		
	6	PL 356x12	388	2	94.20	20.48		6	109898	61.44		
							3			3188.86		3188.86
PB-22	1	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	2	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	140	12	14.90	25.03		12		25.03		
	7	PL 353x12	518	2	94.20	28.55		2	315526	28.55		
	8	PL 343x12	558	2	94.20	33.13		2	195212	33.13		
	9	PL 354x12	363	1	94.20	9.30		1	98778	9.30		
	10	PL 343x12	363	1	94.20	9.09		1	99513	9.09		
	11	PL 337x12	417	1	94.20	11.19		1	118773	11.19		
	12	PL 356x12	388	1	94.20	10.24		1	109898	10.24		
							1			1080.44		1080.44
PB-23	1	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100x100x10	290	2	14.90	8.64		4		17.28		
	3	L100x100x10	140	12	14.90	25.03		24		50.06		
	13	PL 353x12	518	2	94.20	57.92		4	152665	115.85		
	14	PL 343x12	363	2	94.20	18.18		4	99513	36.37		
	15	PL 356x12	388	2	94.20	20.53		4	109898	41.07		
							2			2124.89		2124.89
PB-21	16	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100x100x10	290	2	14.90	8.64		4		17.28		
	3	L100x100x10	140	12	14.90	25.03		24		50.06		
	7	PL 353x12	518	2	94.20	28.55		4	315526	57.09		
	17	NOT USD										
	18	PL 348x12	372	2	94.20	18.87		4	100177	37.75		
	19	PL 353x12	518	2	94.20	28.55		4	315526	57.09		
	20	PL 356x12	388	2	94.20	20.53		4	109898	41.07		
							1			1857.45		1857.45
PB-24	21	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100x100x10	290	2	14.90	8.64		4		17.28		
	3	L100x100x10	140	12	14.90	25.03		24		50.06		
							2			2124.89		2124.89
PB-25	26	NPB 600x220x107.56	11954	1	107.56	1285.77		1		1285.77		
	27	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	140	12	14.90	25.03		12		25.03		
	33	PL 357x12	450	2	94.20	24.59		2	120539	24.59		
	34	PL 490x12	678	1	94.20	29.17		1	309657	29.17		
	35	PL 331x12	544	1	94.20	10.14		1	107982	10.14		
	36	PL 435x12	821	1	94.20	29.81		1	310489	29.81		
	37	PL 348x12	369	1	94.20	9.39		1	99720	9.39		
							1			1426.73		1426.73
PB-26	26	NPB 600x220x107.56	11954	1	107.56	1285.77		1		1285.77		
	27	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	140	12	14.90	25.03		12		25.03		
	33	PL 357x12	450	2	94.20	24.59		2	120539	24.59		
	34	PL 490x12	678	1	94.20	29.17		1	309657	29.17		
	35	PL 331x12	544	1	94.20	10.14		1	107982	10.14		
	38	PL 435x12	821	1	94.20	29.81		1	310489	29.81		
	37	PL 348x12	369	1	94.20	9.39		1	99720	9.39		
							1			1426.73		1426.73
PB-27	58	ISMB 450	11945	1	72.40	864.82		1		864.82		
	2	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	140	18	14.90	37.55		18		37.55		
	39	PL 485x12	528	2	94.20	37.65		2	199866	37.65		
	40	PL 486x12	564	2	94.20	42.49		2	235648	42.49		
	41	PL 436x12	445	1	94.20	13.68		1	145262	13.68		
	42	PL 472x12	499	1	94.20	17.39		1	184519	17.39		
	43	PL 586x12	600	1	94.20	25.96		1	275622	25.96		
	44	PL 469x12	477	1	94.20	16.48		1	174987	16.48		
							1			1064.67		1064.67
PB-28	45	NPB 600x220x107.56	11945	1	107.56	1284.80		1		1284.80		
	27	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	140	18	14.90	37.55		18		37.55		
	46	PL 583x12	963	1	94.20	46.09		1	489250	46.09		
	47	PL 475x12	531	1	94.20	18.91		1	200748	18.91		
	48	PL 756x12	1172	1	94.20	73.90		1	784465	73.90		
	49	PL 473x12	499	1	94.20	17.59		1	186584	17.59		
	50	PL 532x12	599	1	94.20	22.77		1	241746	22.77		
	51	PL 591x12	866	1	94.20	40.72		1	432300	40.72		
	52	PL 469x12	477	1	94.20	16.34		1	173441	16.34		
							1			1571.47		1571.47

TOTAL WEIGHT 16928.6 KG. = 16.929 T.

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	NPB 600x220x107.56	3856.35	IS: 2062-2006 GR-A
2	NPB 450x190x77.57	10199.99	IS: 2062-2006 GR-A
3	ISMB 450	864.82	IS: 2062-2006 GR-A
4	L100x100x10	542.66	IS: 2062-2006 GR-A
5	PL. 12 THK.	1464.78	IS: 2062-2006 GR-A
	TOTAL WEIGHT =	16928.60	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	60	264	264	82.368
					TOTAL WEIGHT=		82.368

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	4430	NTS				

TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0002 REV. 00

SHEET NO. 01 NO OF SHEETS 01

Sep Sat 28 17:15 2019
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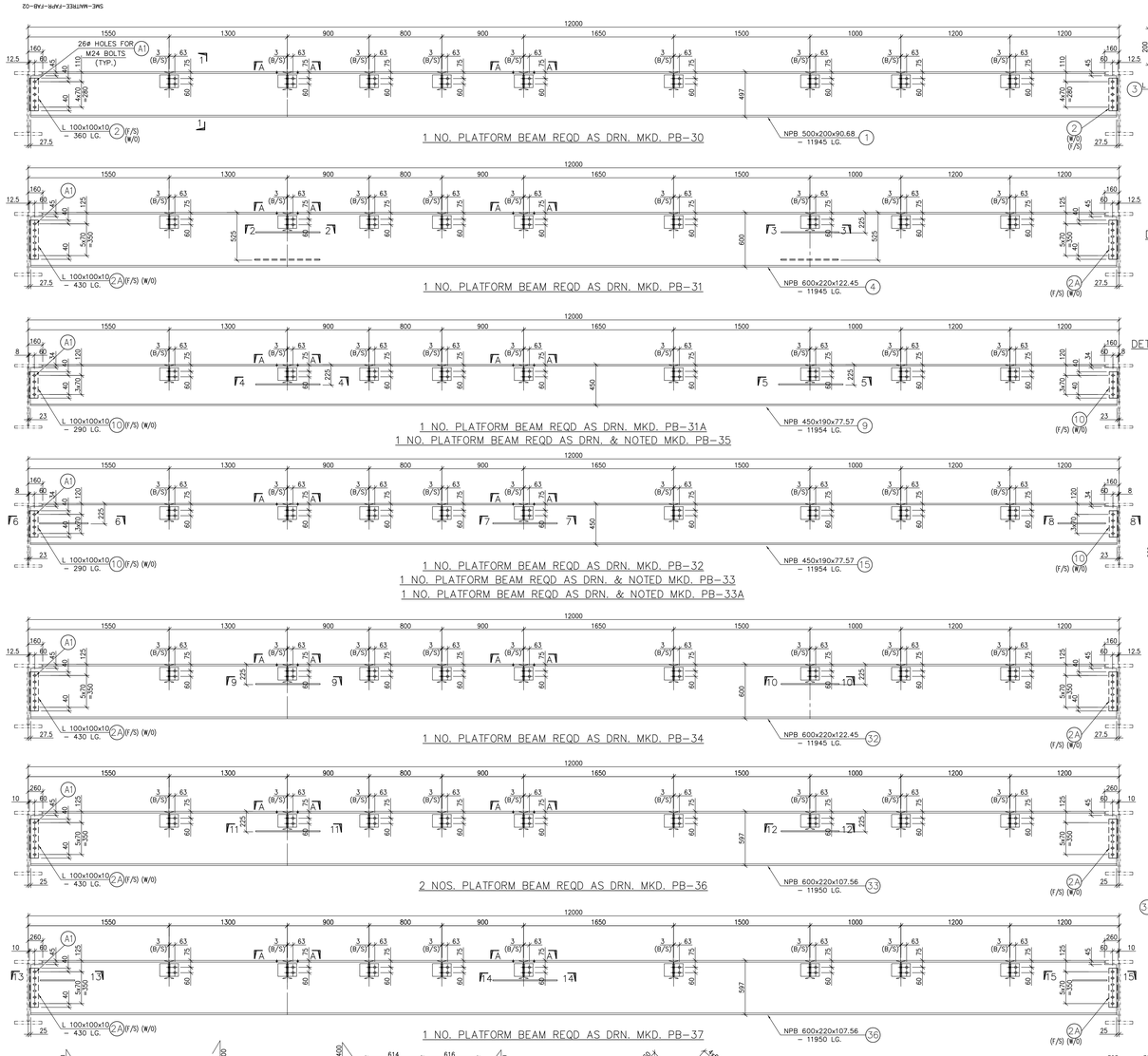

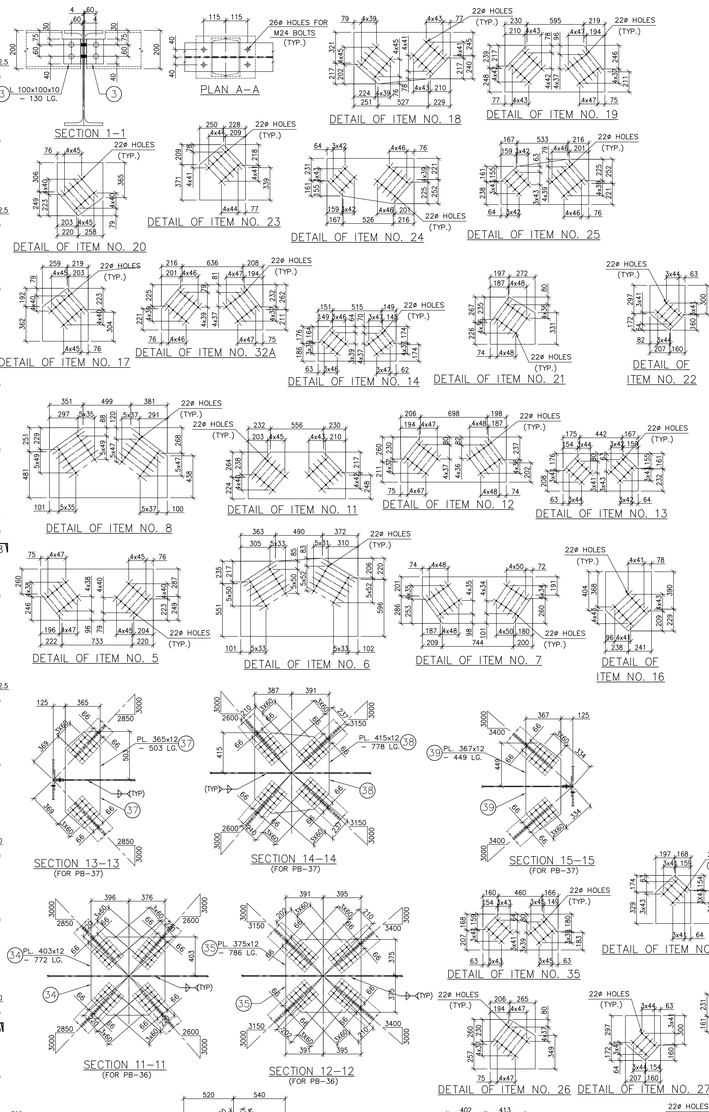

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kg.)	WEIGHT FOR ONE ASSEMBLY (Kg.)	HOLE OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	MARK	WEIGHT FOR TOTAL ASSEMBLY (Kg.)	EREC. MKD. WT.(Kg.)	REMARKS
PB-30	1	NPB 500x200x90.68	11945	1	90.68	1083.17		1		1083.17		
	2	L100x100x10	360	2	14.80	10.73		2		10.73		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
										1128.77		1128.77
PB-31	4	NPB 600x220x122.45	11945	1	122.45	1462.67		1		1462.67		
	24	L100x100x10	430	2	14.80	12.81		2		12.81		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	5	PL 535x12	1175	1	94.20	53.82		1	57320	53.82		
	6	PL 816x12	1225	1	94.20	94.53		1	60727	94.53		
	7	PL 486x12	1152	1	94.20	47.53		1	50459	47.53		
	8	PL 733x12	1230	1	94.20	75.46		1	60159	75.46		
										1771.79	1	1771.79
PB-31A	9	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	10	L100x100x10	290	2	14.80	8.94		2		8.94		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	11	PL 487x12	1017	2	94.20	82.48		2	42794	82.48		
	12	PL 471x12	1103	2	94.20	87.82		2	46013	87.82		
										1141.37	1	1141.37
PB-31B	9	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	10	L100x100x10	290	2	14.80	8.94		2		8.94		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	13	PL 393x12	785	2	94.20	82.48		2	42794	82.48		
	14	PL 362x12	815	2	94.20	52.51		2	27242	52.51		
										1108.77	1	1108.77
PB-32	15	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	10	L100x100x10	290	2	14.80	8.94		2		8.94		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	16	PL 479x12	619	1	94.20	22.91		1	24207	22.91		
	17	PL 478x12	553	1	94.20	19.99		1	21212	19.99		
	18	PL 538x12	1007	1	94.20	42.41		1	44801	42.41		
	19	PL 487x12	1045	1	94.20	42.31		1	45288	42.31		
	20	PL 478x12	555	1	94.20	20.11		1	21349	20.11		
	21	PL 469x12	493	1	94.20	17.46		1	18536	17.46		
										1137.18	1	1137.18
PB-33	15	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	10	L100x100x10	290	2	14.80	8.94		2		8.94		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	22	PL 399x12	469	1	94.20	13.24		1	14048	13.24		
	23	PL 479x12	580	1	94.20	21.59		1	22907	21.59		
	24	PL 473x12	909	1	94.20	32.94		1	34961	32.94		
	25	PL 473x12	916	1	94.20	34.07		1	36172	34.07		
	26	PL 471x12	517	2	94.20	38.84		2	19453	38.84		
										1108.77	1	1108.77
PB-33A	15	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	10	L100x100x10	290	2	14.80	8.94		2		8.94		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	22	PL 399x12	469	1	94.20	13.24		1	14048	13.24		
	28	PL 392x12	778	1	94.20	28.20		1	29781	28.20		
	29	PL 473x12	916	1	94.20	34.07		1	36172	34.07		
	30	PL 367x12	419	1	94.20	11.66		1	12378	11.66		
	31	PL 471x12	517	1	94.20	19.32		1	19453	19.32		
										1087.52	1	1087.52
PB-34	32	NPB 600x220x122.45	11945	1	122.45	1462.67		1		1462.67		
	24	L100x100x10	430	2	14.80	12.81		2		12.81		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	13	PL 393x12	785	2	94.20	82.48		2	42794	82.48		
	324	PL 473x12	1060	1	94.20	94.53		1	60727	94.53		
										1677.35	1	1677.35
PB-36	33	NPB 850x220x107.56	11950	1	107.56	1285.34		2		2570.68		
	34	L100x100x10	430	2	14.80	12.81		4		25.61		
	3	L100x100x10	130	18	14.80	34.87		36		69.73		
	34	PL 403x12	772	2	94.20	53.46		4	28746	106.92		
	35	PL 375x12	786	2	94.20	46.94		4	25575	93.88		
						1439.42	2			2812.84		2812.84
PB-37	36	NPB 850x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	24	L100x100x10	430	2	14.80	12.81		2		12.81		
	3	L100x100x10	130	18	14.80	34.87		18		34.87		
	37	PL 367x12	503	2	94.20	28.79		2	15268	28.79		
	38	PL 415x12	778	2	94.20	52.93		2	28884	52.93		
	39	PL 367x12	449	2	94.20	23.15		2	13240	23.15		
						1439.91	1			1439.91		1439.91

TOTAL WEIGHT 14470.88 KG. + 14.471 T.

ABSTRACT

SL.NO	SECTION	TOTAL WT.	MATL.SPCN
1	NPB 600x220x122.45	2925.33	E350, BA/S: 2062 GR.A
2	NPB 600x220x107.56	3856.03	E350, BA/S: 2062 GR.A
3	NPB 450x190x77.57	4636.36	E350, BA/S: 2062 GR.A
4	NPB 500x200x90.68	1083.17	E350, BA/S: 2062 GR.A
5	L100x100x10	501.53	E350, BA/S: 2062 GR.A
6	PL 12 THK	1468.46	E350, BA/S: 2062 GR.A
TOTAL WEIGHT =		14470.88	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	65	220	220	68.64
					TOTAL WEIGHT=		68.64

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	KARTHIK		23.09.19	
CHD.	SAMPATH			
APPD.	SCJ			

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

RESTRICTED USE

TITLE FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0003
REV. 00
SHEET NO. 01 NO OF SHEETS 01

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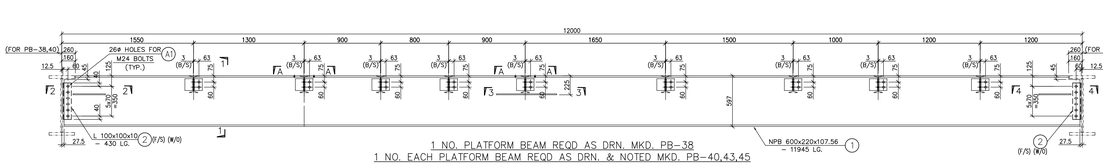

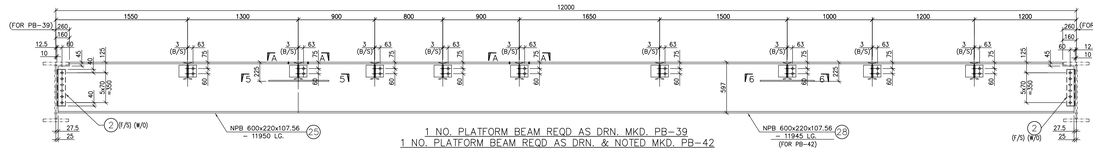

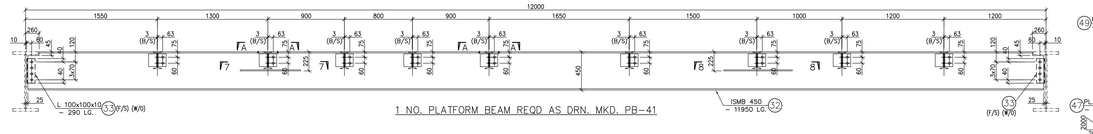

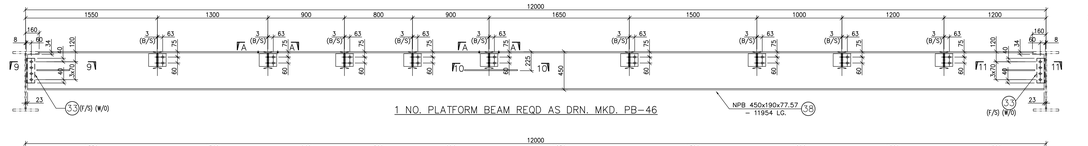

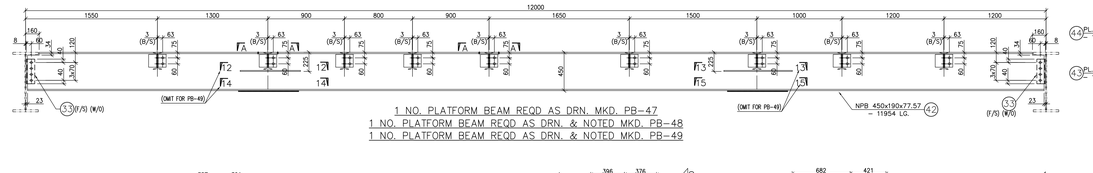

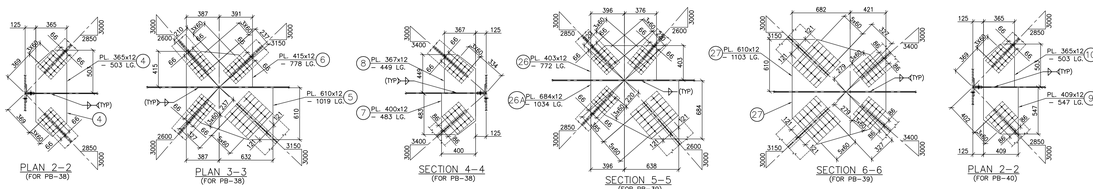

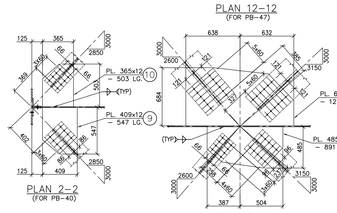

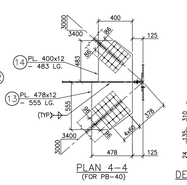

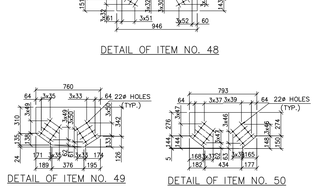

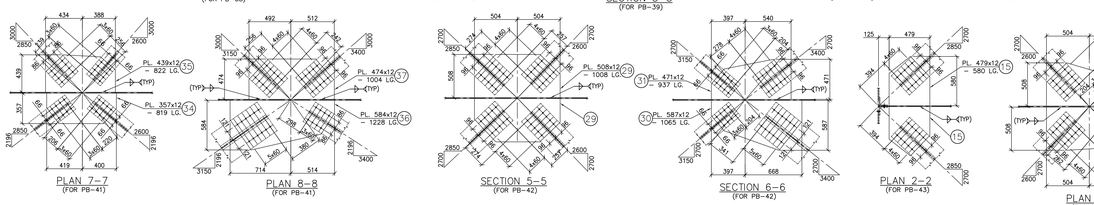

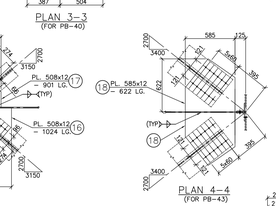

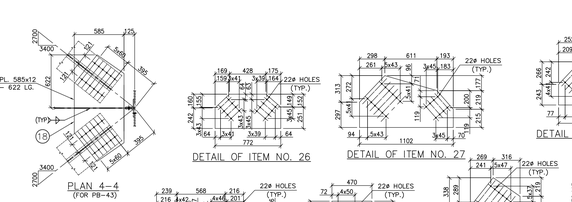

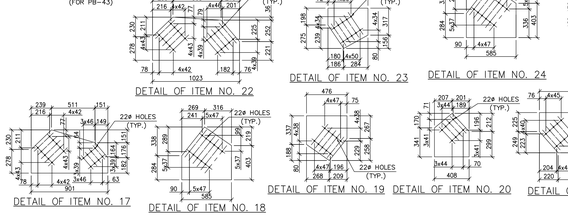

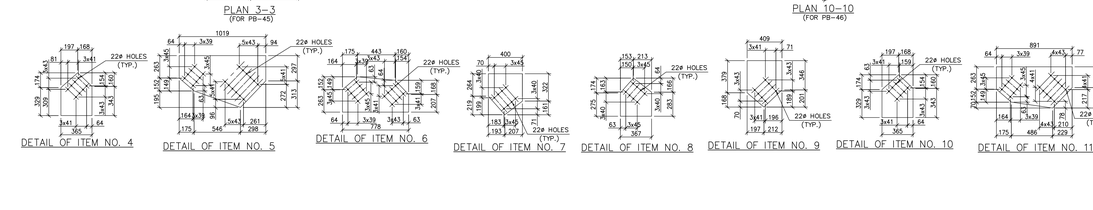

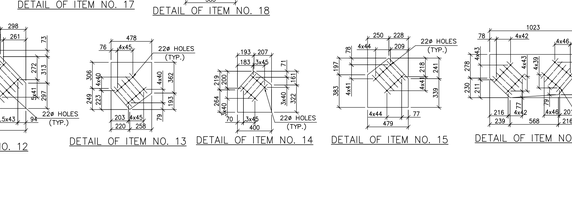

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	QTY. FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-38	1	NPB 600x220x107.56	11945	1	107.56	1284.80		1		1284.80		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	4	PL.365x12	503	2	94.20	28.79		2	152638	28.79		
	5	PL.610x12	1019	1	94.20	44.70		1	474031	44.70		
	6	PL.415x12	778	1	94.20	29.47		1	285964	29.47		
	7	PL.400x12	483	1	94.20	14.64		1	155445	14.64		
	8	PL.367x12	449	1	94.20	12.58		1	133545	12.58		
						1453.67	1			1453.67		1459.67
PB-40	1	NPB 600x220x107.56	11945	1	107.56	1284.80		1		1284.80		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	9	PL.409x12	547	1	94.20	17.71		1	189002	17.71		
	10	PL.365x12	503	1	94.20	14.40		1	152638	14.40		
	11	PL.485x12	891	1	94.20	34.10		1	362016	34.10		
	12	PL.684x12	1270	1	94.20	69.28		1	735592	69.28		
	13	PL.478x12	555	1	94.20	20.07		1	213047	20.07		
	14	PL.400x12	483	1	94.20	14.64		1	155445	14.64		
						1502.69	1			1502.69		1502.69
PB-43	1	NPB 600x220x107.56	11945	1	107.56	1284.80		1		1284.80		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	15	PL.479x12	580	2	94.20	42.48		2	225478	42.48		
	16	PL.508x12	1024	1	94.20	42.17		1	447627	42.17		
	17	PL.508x12	901	1	94.20	33.53		1	355959	33.53		
	18	PL.585x12	622	2	94.20	53.44		2	283664	53.44		
						1504.10	1			1504.10		1504.10
PB-45	1	NPB 600x220x107.56	11945	1	107.56	1284.80		1		1284.80		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	19	PL.476x12	526	1	94.20	19.58		1	189253	19.58		
	20	PL.408x12	511	1	94.20	15.96		1	169422	15.96		
	21	PL.473x12	1075	1	94.20	42.82		1	404515	42.82		
	22	PL.508x12	1024	1	94.20	42.17		1	447627	42.17		
	23	PL.473x12	472	1	94.20	16.46		1	174746	16.46		
	24	PL.585x12	622	1	94.20	28.72		1	283664	28.72		
						1495.28	1			1495.28		1495.28
PB-39	25	NPB 600x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	26	PL.403x12	772	1	94.20	29.76		1	284111	29.76		
	26A	PL.684x12	1034	1	94.20	49.37		1	524142	49.37		
	27	PL.610x12	1103	2	94.20	97.38		2	516885	97.38		
						1508.54	1			1508.54		1508.54
PB-42	28	NPB 600x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	2	L100x100x10	430	2	14.90	12.81		2		12.81		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	29	PL.508x12	1008	2	94.20	85.00		2	451187	85.00		
	30	PL.587x12	1065	1	94.20	43.19		1	459449	43.19		
	31	PL.471x12	937	1	94.20	33.12		1	351981	33.12		
						1494.33	1			1494.33		1494.33
PB-41	32	ISMB 450	11950	1	72.40	865.18		1		865.18		
	33	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	34	PL.357x12	819	1	94.20	25.06		1	265980	25.06		
	35	PL.439x12	822	1	94.20	29.90		1	317461	29.90		
	36	PL.584x12	1228	1	94.20	50.99		1	541268	50.99		
	37	PL.474x12	1004	1	94.20	39.63		1	420729	39.63		
						1054.27	1			1054.27		1054.27
PB-46	38	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	33	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	39	PL.473x12	511	2	94.20	36.39		2	193141	36.39		
	40	PL.473x12	1101	2	94.20	81.70		2	465465	81.70		
	41	PL.469x12	482	2	94.20	33.11		2	175750	33.11		
						1127.98	1			1127.98		1127.98
PB-47	42	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	33	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	43	PL.473x12	1125	1	94.20	44.87		1	476343	44.87		
	44	PL.473x12	1071	1	94.20	42.58		1	451990	42.58		
	45	PL.357x12	1002	1	94.20	32.13		1	341039	32.13		
	46	PL.467x12	1179	1	94.20	46.97		1	498589	46.97		
						1137.32	1			1137.32		1137.32
PB-48	42	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	33	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
	47	PL.360x12	874	1	94.20	27.22		1	288914	27.22		
	48	PL.347x12	941	1	94.20	28.61		1	303885	28.61		
	49	PL.469x12	760	1	94.20	30.32		1	321969	30.32		
	50	PL.419x12	793	1	94.20	29.03		1	308162	29.03		
						1085.99	1			1085.99		1085.99
PB-49	42	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	33	L100x100x10	290	2	14.90	8.64		2		8.64		
	3	L100x100x10	130	18	14.90	34.87		18		34.87		
						970.78	1			970.78		970.78
		TOTAL WEIGHT 14338.91 KG. + 14.339 T.										

ABSTRACT

SL.NO	SECTION	TOTAL WT.	MATL.SPCN
1	ISMB 450	865.18	E350, SA/IS: 2062 GR-A
2	NPB 600x220x107.56	7709.90	E350, SA/IS: 2062 GR-A
3	NPB 450x190x77.57	3709.09	E350, SA/IS: 2062 GR-A
4	L100x100x10	503.62	E350, SA/IS: 2062GR-A
5	PL. 12 THK.	1551.13	E350, SA/IS: 2062GR-A
TOTAL WEIGHT =		14338.91	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	65	224	224	69.888
					TOTAL WIGHT=		69.888

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	KARTHIK		23.09.19	
CHD.	SAMPATH			
APPD.	SCJ			

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

RESTRICTED USE
ENDAS

TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0004
REV. 00
SHEET NO. 01 NO OF SHEETS 01

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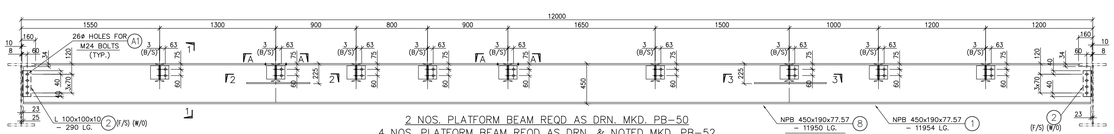
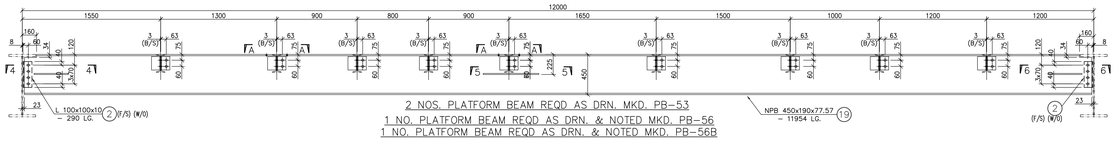
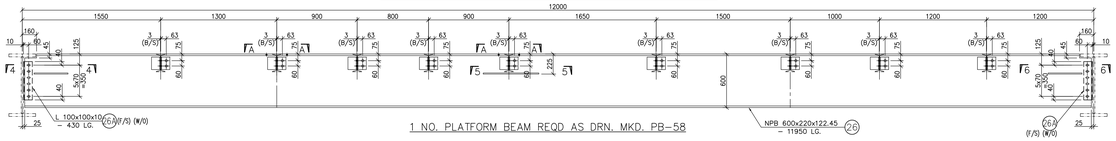
Therefore signatures are not essentially required.



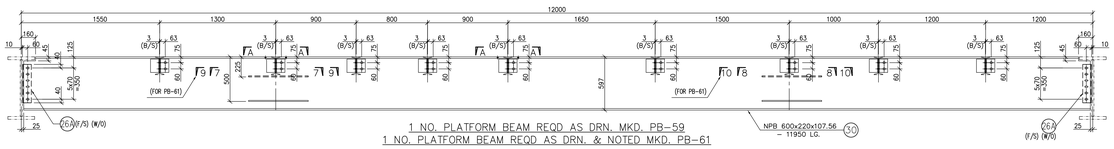
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–50
4 NOS. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–52
1 NO. EACH PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–54,55,57
2 NOS. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–56A



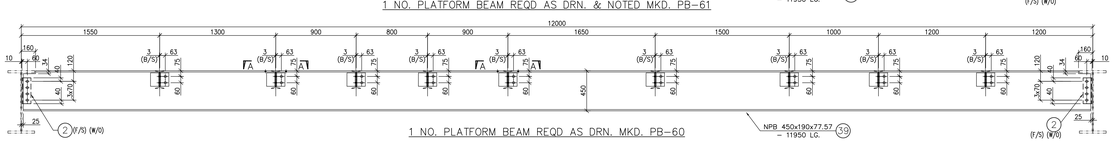
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–53
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–56
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–56B



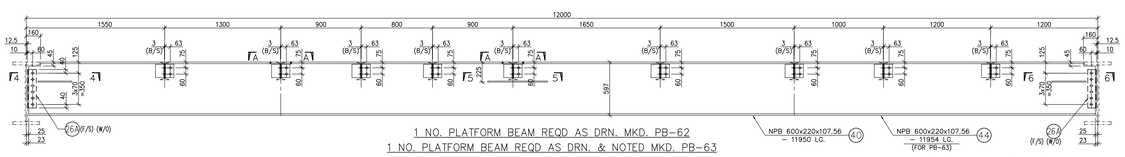
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–58



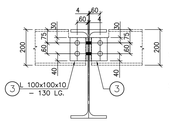
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–59
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–61



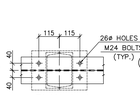
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–60



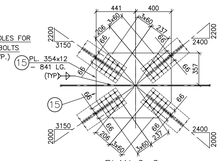
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–62
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–63



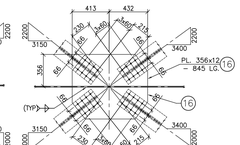
SECTION 1–1



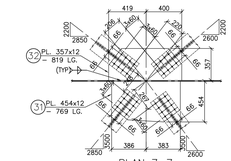
PLAN A–A



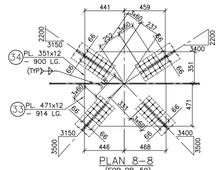
PLAN 2–2 (FOR PB–57)



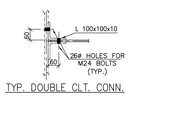
PLAN 3–3 (FOR PB–57)



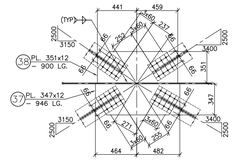
PLAN 7–7 (FOR PB–59)



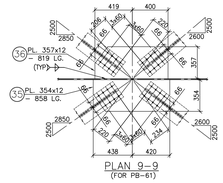
PLAN 8–8 (FOR PB–59)



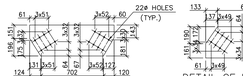
TYP. DOUBLE CLT. CONN.



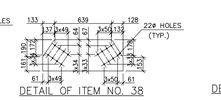
PLAN 10–10 (FOR PB–61)



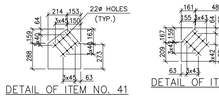
PLAN 9–9 (FOR PB–61)



DETAIL OF ITEM NO. 37



DETAIL OF ITEM NO. 38



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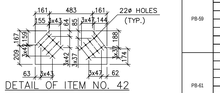
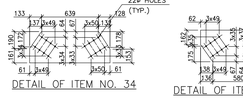


DETAIL OF ITEM NO. 42



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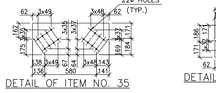

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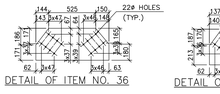

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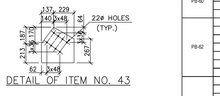

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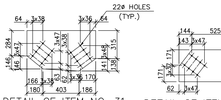

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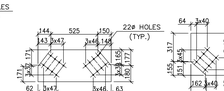

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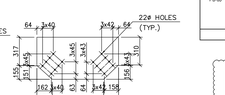

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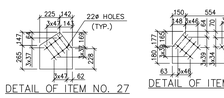

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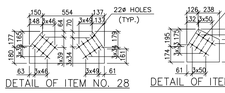

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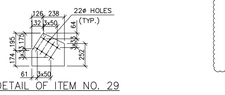

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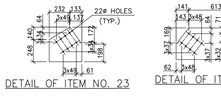

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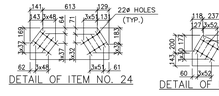

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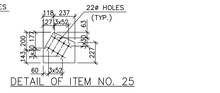

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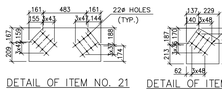

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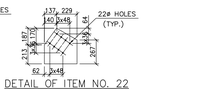

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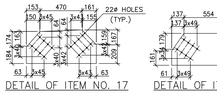

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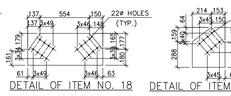

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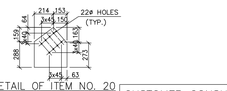

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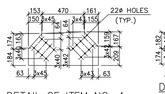

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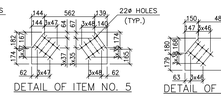

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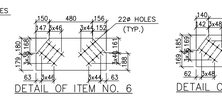

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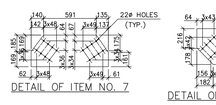

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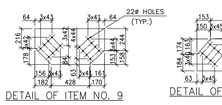
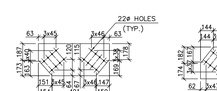


DETAIL OF ITEM NO. 9

DETAIL OF ITEM NO. 10



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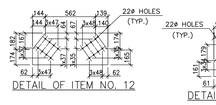

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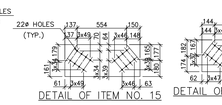

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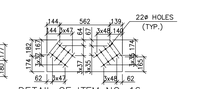

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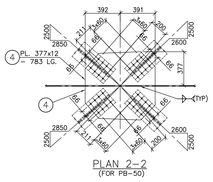
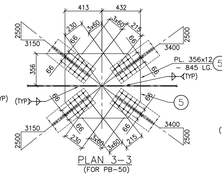
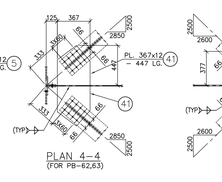


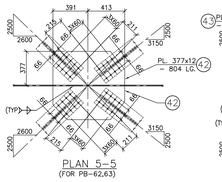
PLAN 2–2 (FOR PB–50)



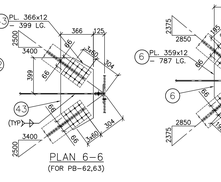
PLAN 3–3 (FOR PB–50)



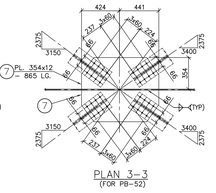
PLAN 4–4 (FOR PB–62,63)



PLAN 5–5 (FOR PB–62,63)

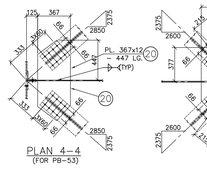


PLAN 6–6 (FOR PB–62,63)

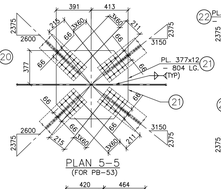


PLAN 2–2 (FOR PB–52)

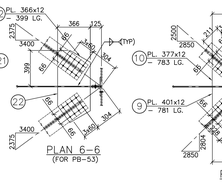
PLAN 3–3 (FOR PB–52)



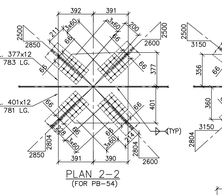
PLAN 4–4 (FOR PB–53)



PLAN 5–5 (FOR PB–53)



PLAN 6–6 (FOR PB–53)



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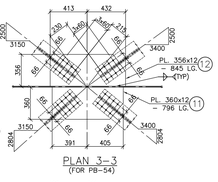

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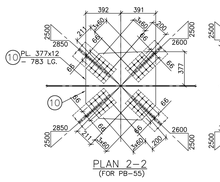

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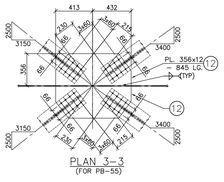

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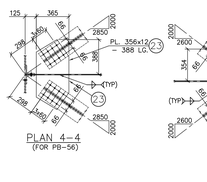
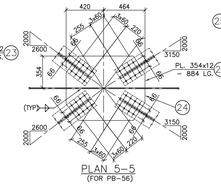
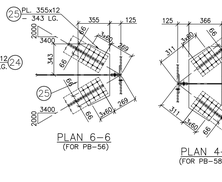


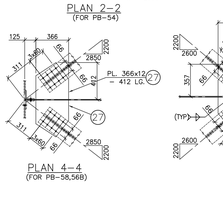
PLAN 4–4 (FOR PB–56)



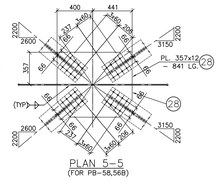
PLAN 5–5 (FOR PB–56)



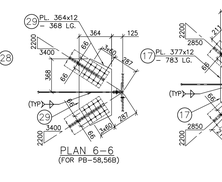
PLAN 6–6 (FOR PB–56)



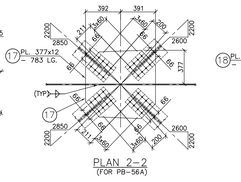
PLAN 4–4 (FOR PB–58,56B)



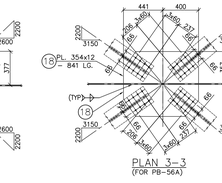
PLAN 5–5 (FOR PB–58,56B)



PLAN 6–6 (FOR PB–58,56B)



PLAN 2–2 (FOR PB–56A)



PLAN 3–3 (FOR PB–56A)

BILL OF MATERIALS												
ERECTION MRD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kg.)	WEIGHT FOR ONE ASSEMBLY (kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (kg.)	EREC. MRD. WT.(kg.)	REMARKS
PB-50	1	NPB 450x190x77.57	11954	1	77.57	927.27	2	2		1854.54		
	2	L100X100X10	290	2	14.90	8.64		4		17.28		
	3	L100X100X10	130	18	14.90	34.67		36		69.73		
	4	PL.377x12	783	2	94.20	49.66		4	263610	99.33		
	5	PL.356x12	845	2	94.20	51.52		4	273452	103.04		
						1071.96	2			2143.92	2143.92	
PB-52	1	NPB 450x190x77.57	11954	1	77.57	927.27		4		3709.09		
	2	L100X100X10	290	2	14.90	8.64		8		34.52		
	3	L100X100X10	130	18	14.90	34.67		72		139.46		
	6	PL.359x12	787	2	94.20	48.20		8	255057	192.61		
	7	PL.354x12	865	2	94.20	52.79		8	280252	211.18		
						1071.77	4			4287.09	4287.09	
PB-54	8	NPB 450x190x77.57	11950	1	77.57	926.96		1		926.96		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	9	PL.402x12	781	1	94.20	25.85		1	282929	25.85		
	10	PL.377x12	783	1	94.20	24.60		1	261130	24.60		
	11	PL.360x12	796	1	94.20	24.43		1	258048	24.43		
	12	PL.356x12	845	1	94.20	25.81		1	274013	25.81		
						1071.96	1			1071.96	1071.96	
PB-55	8	NPB 450x190x77.57	11950	1	77.57	926.96		1		926.96		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	10	PL.377x12	783	2	94.20	49.20		2	261130	49.20		
	12	PL.356x12	845	2	94.20	51.62		2	274013	51.62		
	13	NOT USE										
	14	NOT USE										
						1071.29	1			1071.29	1071.29	
PB-57	8	NPB 450x190x77.57	11950	1	77.57	926.96		1		926.96		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	15	PL.354x12	841	2	94.20	51.71		2	274460	51.71		
	16	PL.356x12	845	2	94.20	51.27		2	272140	51.27		
						1073.45	1			1073.45	1073.45	
PB-59A	1	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100X100X10	290	2	14.90	8.64		4		17.28		
	3	L100X100X10	130	18	14.90	34.67		36		69.73		
	17	PL.377x12	783	2	94.20	49.22		4	261259	98.44		
	18	PL.356x12	841	2	94.20	51.58		4	273792	103.16		
						1071.58	2			2143.17	2143.17	
PB-53	19	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100X100X10	290	2	14.90	8.64		4		17.28		
	3	L100X100X10	130	18	14.90	34.67		36		69.73		
	20	PL.387x12	447	2	94.20	25.18		4	133638	50.35		
	21	PL.377x12	804	2	94.20	50.85		4	269929	101.71		
	22	PL.366x12	399	2	94.20	22.27		4	118226	44.55		
						1069.09	2			2138.17	2138.17	
PB-56	19	NPB 600x220x122.45	11954	1	122.45	1463.77		2		2927.53		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		36		69.73		
	23	PL.356x12	388	2	94.20	21.25		4	112808	42.51		
	24	PL.356x12	884	2	94.20	54.07		4	288991	108.14		
	25	PL.355x12	343	2	94.20	18.14		4	96301	36.29		
						1600.74	2			3192.84	3192.84	
PB-56B	1	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		36		69.73		
	27	PL.366x12	412	2	94.20	21.25		2	112808	21.25		
	28	PL.357x12	841	2	94.20	54.07		2	288991	54.07		
	29	PL.364x12	368	2	94.20	18.14		2	96301	18.14		
						1064.25	2			2035.38	2035.38	
PB-58	26	NPB 600x220x122.45	11950	1	122.45	1463.28		1		1463.28		
	26A	L100X100X10	430	2	14.90	12.81		2		12.81		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	27	PL.366x12	412	2	94.20	21.25		2	112808	21.25		
	28	PL.357x12	841	2	94.20	54.07		2	288991	54.07		
	29	PL.364x12	368	2	94.20	18.14		2	96301	18.14		
						1064.42	1			1064.42	1064.42	
PB-59	30	NPB 600x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	26A	L100X100X10	430	2	14.90	12.81		2		12.81		
	31	PL.454x12	769	1	94.20	29.46		1	312785	29.46		
	32	PL.357x12	819	1	94.20	25.06		1	265980	25.06		
	33	PL.471x12	914	1	94.20	38.09		1	404381	38.09		
	34	PL.352x12	900	1	94.20	27.10		1	287732	27.10		
						1452.74	1			1452.74	1452.74	
PB-61	30	NPB 600x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	26A	L100X100X10	430	2	14.90	12.81		2		12.81		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	35	PL.354x12	858	1	94.20	25.47		1	270430	25.47		
	36	PL.357x12	819	1	94.20	25.06		1	265980	25.06		
	37	PL.347x12	946	1	94.20	28.61		1	303695	28.61		
	38	PL.352x12	900	1	94.20	27.37		1	290561	27.37		
						1428.53	1			1428.53	1428.53	
PB-60	39	NPB 450x190x77.57	11950	1	77.57	926.96		1		926.96		
	2	L100X100X10	290	2	14.90	8.64		2		8.64		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
						970.47	1			970.47	970.47	
PB-62	40	NPB 600x220x107.56	11950	1	107.56	1285.34		1		1285.34		
	26A	L100X100X10	430	2	14.90	12.81		2		12.81		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	41	PL.387x12	447	2	94.20	25.18		2	133638	25.18		
	42	PL.377x12	804	2	94.20	50.50		2	268036	50.50		
	43	PL.366x12	399	2	94.20	22.27		2	118226	22.27		
						1430.97	1			1430.97	1430.97	
PB-63	44	NPB 600x220x107.56	11954	1	107.56	1285.77		1		1285.77		
	26A	L100X100X10	430	2	14.90	12.81		2		12.81		
	3	L100X100X10	130	18	14.90	34.67		18		34.67		
	41	PL.387x12	447	2	94.20	25.18		2		25.18		
	42	PL.377x12	804	2	94.20	50.50		2		50.50		
	43	PL.366x12	399	2	94.20	22.27		2		22.27		
						1431.40	1			1431.40	1431.40	
TOTAL WEIGHT 27477.81 KG. = 27.478 T.												

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	NPB 600x220x122.45	4390.81	IS: 2062-2006 GR-A
2	NPB 600x220x107.56	5141.80	IS: 2062-2006 GR-A
3	NPB 450x190x77.57	14835.11	IS: 2062-2006 GR-A
4	L100x100x10	1004.26	IS: 2062-2006 GR-A
5	PL. 12 THK.	2105.83	IS: 2062-2006 GR-A
TOTAL WEIGHT =		27477.81	

BOLT SCHEDULE							
ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	65	324	324	101.088
					TOTAIL WIGHT=		101.088

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE
01	29.09.19				DUPLICATE ERECTION MARK PB–56A DELETED AND WEIGHT UPDATED

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	KARTHIK		23.09.19	
CHD.	SAMPATH			
APPD.	SCJ			

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0005
REV. 01
SHEET NO. 01
NO OF SHEETS 01

Sep Mon 30 14:14 2019
Printed by : KARTHIKE MAITA-FM2254 / 6234399 on 30-09-19 15:18:10
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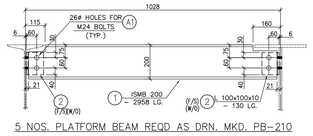
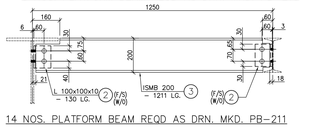
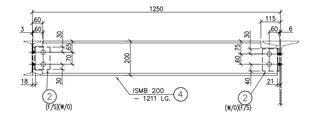


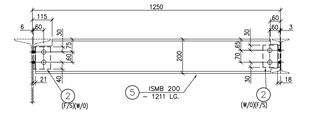
5 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-210



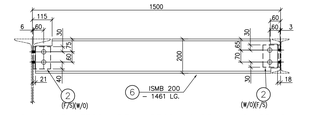
14 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-211



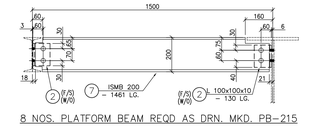
42 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-212



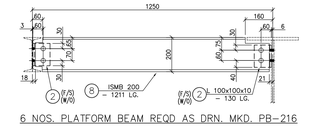
34 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-213



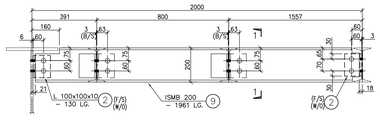
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-214



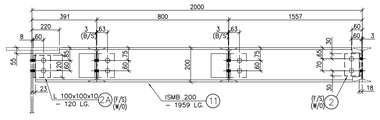
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-215



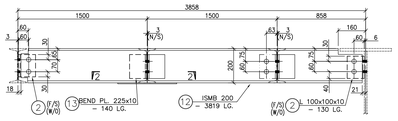
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-216



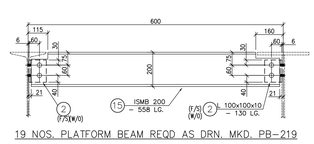
22 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-217



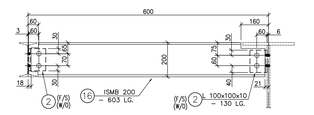
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-218



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-225



19 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-219



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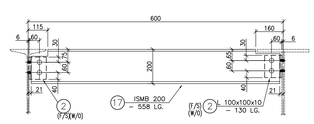
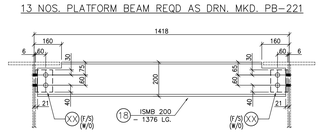


13 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-221



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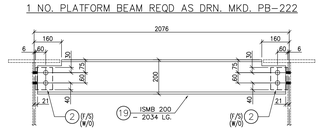

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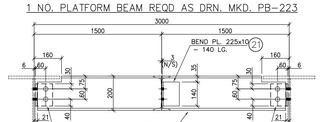

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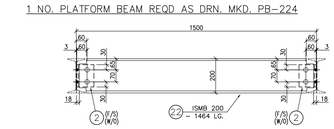
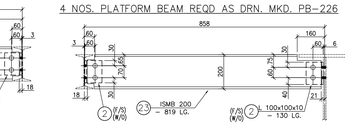


4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-226



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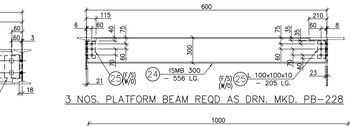
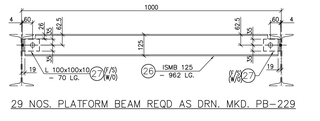
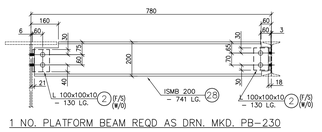


3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-228



29 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-229



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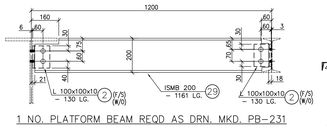

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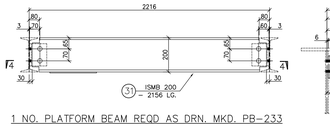

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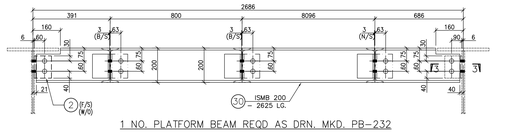
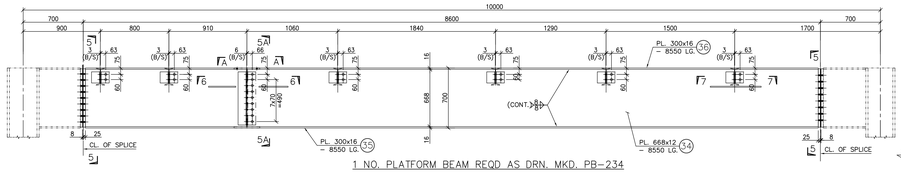


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-232



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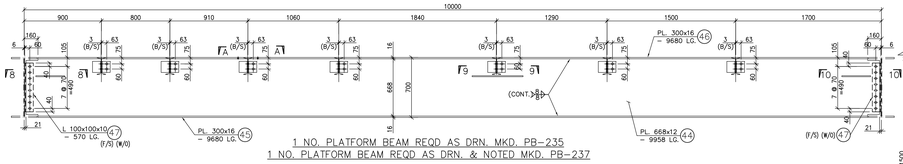
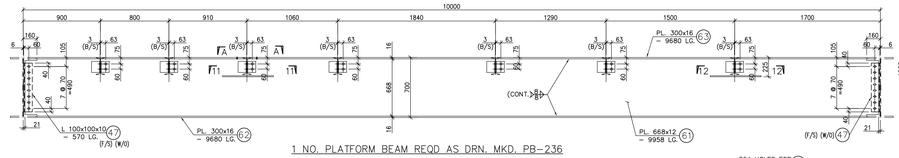


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-235
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB-237



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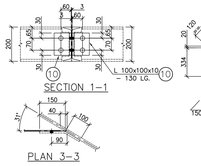
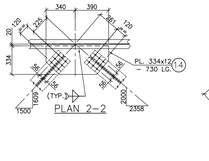
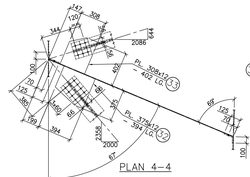
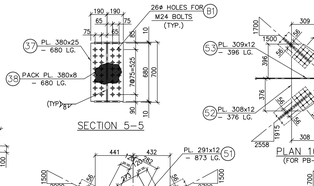
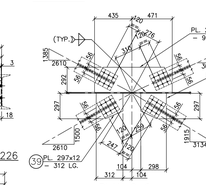
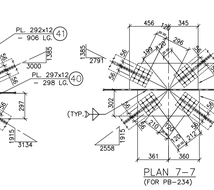


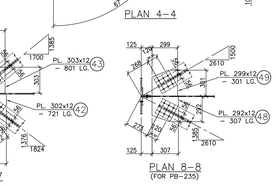


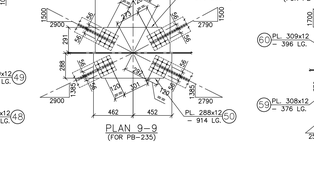


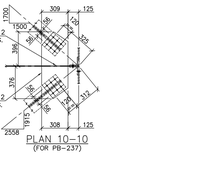


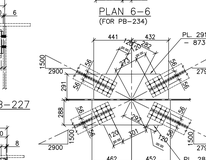


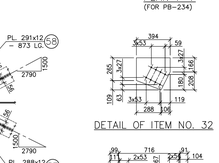


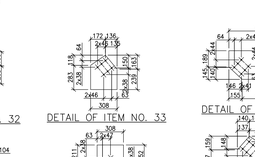


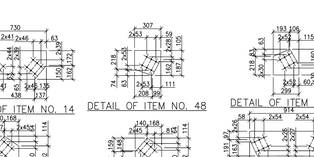


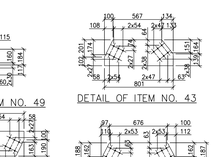


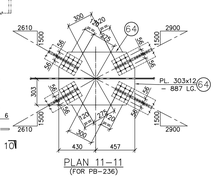


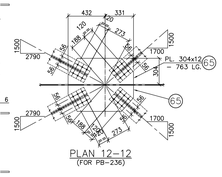


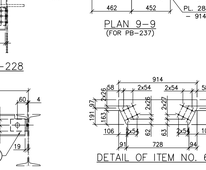


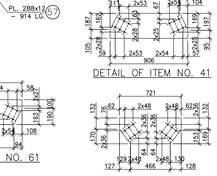


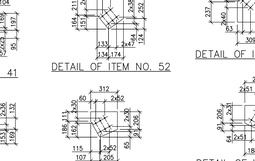


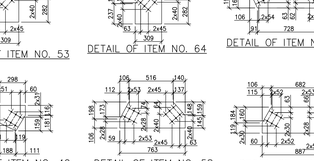


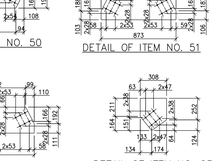


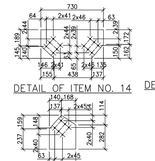


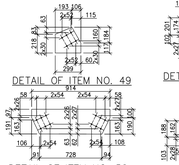


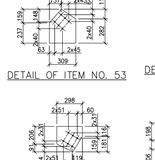


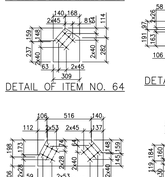


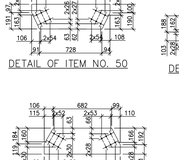


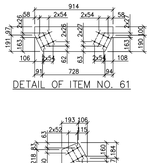


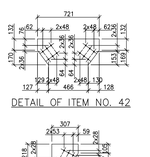


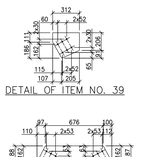


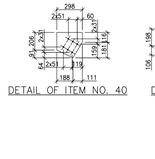


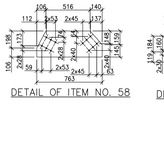


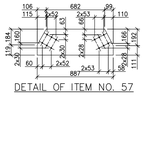


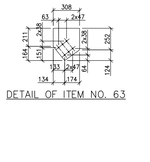


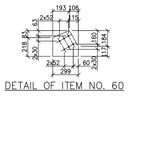


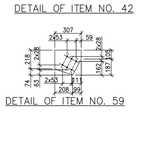


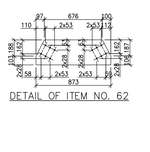












BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kg.)	WEIGHT FOR ONE ASSEMBLY (kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (kg.)	EREC. MKD. WT.(kg.)	REMARKS
PB-210	1	ISMB 200	2958	1	24.20	71.58		5		357.92		
	2	L100x100x10	130	2	14.90	3.87		10		19.37		
										377.29	**377.29**	
PB-211	3	ISMB 200	1211	1	24.20	29.31		14		410.29		
	2	L100x100x10	130	2	14.90	3.87		28		54.24		
										464.52	**464.52**	
PB-212	4	ISMB 200	1211	1	24.20	29.31		42		703.35		
	2	L100x100x10	130	2	14.90	3.87		84		92.98		
						33.18		42		796.32	**796.32**	
PB-213	5	ISMB 200	1211	1	24.20	29.31		2		58.61		
	2	L100x100x10	130	2	14.90	3.87		4		7.75		
						33.18		2		66.36	**66.36**	
PB-214	6	ISMB 200	1461	1	24.20	35.36		8		282.85		
	2	L100x100x10	130	2	14.90	3.87		16		30.99		
						39.23		8		313.84	**313.84**	
PB-215	7	ISMB 200	1461	1	24.20	35.36		8		282.85		
	2	L100x100x10	130	2	14.90	3.87		16		30.99		
						39.23		8		313.84	**313.84**	
PB-216	8	ISMB 200	1211	1	24.20	29.31		6		175.84		
	2	L100x100x10	130	2	14.90	3.87		12		23.24		
						33.18		6		199.08	**199.08**	
PB-217	9	ISMB 200	1961	1	24.20	47.46		22		1044.04		
	2	L100x100x10	130	2	14.90	3.87		44		85.23		
	10	L100x100x10	130	4	14.90	7.75		88		170.48		
						59.08		22		1299.72	**1299.72**	
PB-218	11	ISMB 200	1959	1	24.20	47.41		8		379.26		
	2	L100x100x10	130	1	14.90	1.94		8		15.50		
	2A	L100x100x10	120	1	14.90	1.79		8		14.30		
	10	L100x100x10	130	4	14.90	7.75		32		61.98		
						58.88		8		471.05	**471.05**	
PB-220	12	ISMB 200	2819	1	24.20	68.22		1		68.22		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
	10	L100x100x10	130	1	14.90	1.94		1		1.94		
	13	PL 225x10	140	1	78.50	2.47		1		2.47		
	14	PL 334x12	730	1	94.20	20.87		1	221553	20.87		
						87.37		1		87.37	**87.37**	
PB-219	15	ISMB 200	558	1	24.20	13.50		19		256.57		
	2	L100x100x10	130	2	14.90	3.87		38		73.61		
						17.38		19		330.17	**330.17**	
PB-220	16	ISMB 200	603	1	24.20	14.59		1		14.59		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
						18.47		1		18.47	**18.47**	
PB-221	17	ISMB 200	558	1	24.20	13.50		13		175.50		
	2	L100x100x10	130	2	14.90	3.87		26		50.36		
						17.38		13		225.91	**225.91**	
PB-222	18	ISMB 200	1376	1	24.20	33.30		1		33.30		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
						37.17		1		37.17	**37.17**	
PB-223	19	ISMB 200	2034	1	24.20	49.22		1		49.22		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
						53.10		1		53.10	**53.10**	
PB-224	20	ISMB 200	2958	1	24.20	71.58		1		71.58		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
	21	PL 225x10	140	1	78.50	2.47		1		2.47		
						77.93		1		77.93	**77.93**	
PB-226	22	ISMB 200	1464	1	24.20	35.43		4		141.72		
	2	L100x100x10	130	2	14.90	3.87		8		15.50		
						39.30		4		157.21	**157.21**	
PB-227	23	ISMB 200	819	1	24.20	19.82		2		39.64		
	2	L100x100x10	130	2	14.90	3.87		4		7.75		
						23.69		2		47.39	**47.39**	
PB-228	24	ISMB 300	556	1	46.00	25.58		3		76.73		
	2	L100x100x10	205	2	14.90	6.11		6		18.33		
						31.69		3		95.06	**95.06**	
PB-229	25	ISMB 125	962	1	13.30	12.79		29		371.04		
	27	L100x100x10	70	2	14.90	2.09		58		60.49		
						14.88	29			431.54	**431.54**	
PB-230	28	ISMB 200	741	1	24.20	17.93		1		17.93		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
						21.81		1		21.81	**21.81**	
PB-231	29	ISMB 200	1161	1	24.20	28.10		1		28.10		
	2	L100x100x10	130	2	14.90	3.87		2		3.87		
						31.97		1		31.97	**31.97**	
PB-232	30	ISMB 200	2625	1	24.20	63.53		1		63.53		
	2	L100x100x10	130	1	14.90	1.94		1		1.94		
	10	L100x100x10	130	5	14.90	9.69		5		9.69		
						75.15		1		75.15	**75.15**	
PB-233	31	ISMB 200	2156	1	24.20	52.18		1		52.18		
	32	PL 375x12	394	1	94.20	11.35		1	120929	11.35		
	33	PL 308x12	402	1	94.20	9.55		1	102471	9.55		
						73.18		1		73.18	**73.18**	
PB-234	34	PL 668x12	8550	1	94.20	536.01		1		536.01		
	35	PL 300x16	8550	1	125.60	322.16		1		322.16		
	36	PL 300x16	8550	1	125.60	322.16		1		322.16		
	37	PL 380x25	680	2	186.25	101.42		2		101.42		
	38	PL 380x8	680	2	62.80	32.46		2		32.46		
	10A	L100x100x10	130	12	14.90	23.24		12		23.24		
	10	L100x100x10	570	2	14.90	16.99		2		16.99		
	39	PL 297x12	312	1	94.20	6.91		1	73365	6.91		
	40	PL 297x12	298	1	94.20	6.50		1	68954	6.50		
	41	PL 292x12	906	1	94.20	23.22		1	246466	23.22		
	42	PL 303x13	721	1	94.20	18.44		1	195120	18.44		
	43	PL 303x12	801	1	94.20	20.87		1	221589	20.87		
						1432.39	1			1432.39	**1432.39**	
PB-235	44	PL 668x12	9958	1	94.20	626.61		1		626.61		
	45	PL 300x16	9950	1	125.60	364.74		1		364.74		
	46	PL 300x16	9680	1	125.60	364.74		1		364.74		
	47	L100x100x10	570	2	14.90	16.99		2		16.99		
	10	L100x100x10	130	14	14.90	27.12		14		27.12		
	48	PL 292x12	307	1	94.20	6.86		1	73801	6.86		
	49	PL 299x12	301	1	94.20	6.81		1	72253	6.81		
	50	PL 288x12	914	1	94.20	22.23		1	246568	22.23		
	51	PL 291x12	873	1	94.20	8.64		1	93811	8.64		
	52	PL 308x12	376	1	94.20	9.55		1	101387	9.55		
	53	PL 309x12	396	1	94.20	10.07		1	121089	10.07		
						1477.76	1			1477.76	**1477.76**	
PB-236	44	PL 668x12	9958	1	94.20	626.61		1		626.61		
	45	PL 300x16	9958	1	125.60	375.22		1		375.22		
	46	PL 300x16	9680	1	125.60	364.74		1		364.74		
	47	L100x100x10	570	2	14.90	16.99		2		16.99		
	10	L100x100x10	130	14	14.90	27.12		14		27.12		
	48	PL 292x12	307	1	94.20	6.86		1	73801	6.86		
	49	PL 299x12	301	1	94.20	6.81		1	72253	6.81		
	50	PL 288x12	914	1	94.20	22.28		1	236473	22.28		
	59	PL 308x12	376	1	94.20	8.64		1	93811	8.64		
	60	PL 309x12	396	1	94.20	20.87		1	221089	20.87		
						1499.55	1			1499.55	**1499.55**	
PB-237	61	PL 668x12	9958	1	94.20	626.61		1		626.61		
	62	PL 300x16	9680	1	125.60	364.74		1		364.74		
	63	PL 300x16	9680	1	125.60	364.74		1		364.74		
	47	L100x100x10	570	2	14.90	16.99		2		16.99		
	10	L100x100x10	130	14	14.90	27.12		14		27.12		
	64	PL 303x13	887	2	94.20	46.99		2	240368	46.99		
	65	PL 304x12	783	2	94.20	46.99		2	240368	46.99		
						1484.17	1			1484.17	**1484.17**	
		TOTAL WEIGHT 11979.32 KG. + 11.979 T.										

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 300	76.73	E350, SA/IS: 2062 GR.A
2	ISMB 200	4707.12	E350, SA/IS: 2062 GR.A
3	ISMB 125	371.04	E350, SA/IS: 2062 GR.A
4	L100x100x10	1046.28	E350, SA/IS: 2062 GR.A
5	PL 25 THK.	101.42	E350, SA/IS: 2062 GR.A
6	PL 16 THK.	2843.26	E350, SA/IS: 2062 GR.A
7	PL 12 THK.	2796.07	E350, SA/IS: 2062 GR.A
8	PL 10 THK.	4.95	E350, SA/IS: 2062 GR.A
9	PL 8 THK.	32.46	E350, SA/IS: 2062 GR.A
TOTAL WEIGHT =		11979.32	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	HEX NUT TOTAL NOS. REQUIRED	WEIGHT Weight (kg.)
A1	M24	P	P.C. 8.8	60	2032	2032	633.984
B1	M24	P	P.C. 8.8	95	64	64	27.328
					TOTAL WEIGHT=		661.312

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

BHEL भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

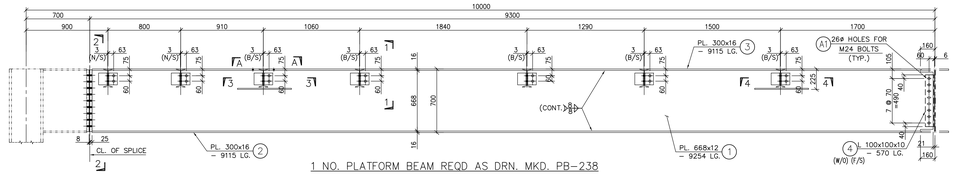
NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

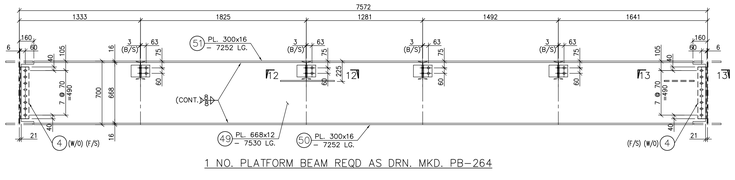
TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0006
REV. 00
SHEET NO. 01
NO OF SHEETS 01

Sep Fri 27 09:30 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-238



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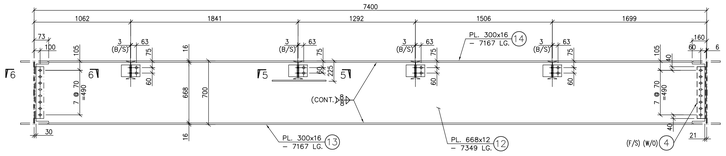

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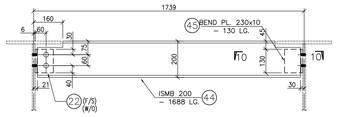

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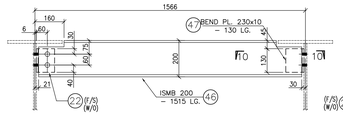

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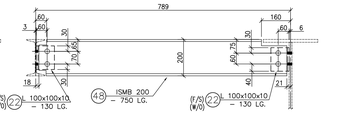

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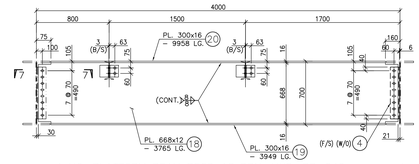

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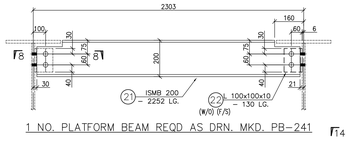

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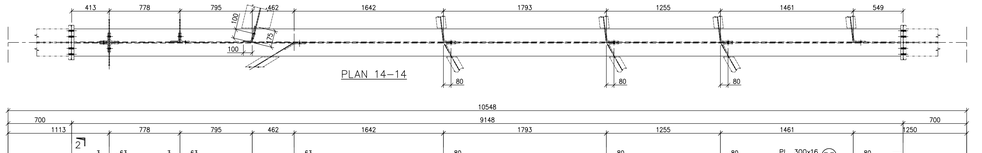

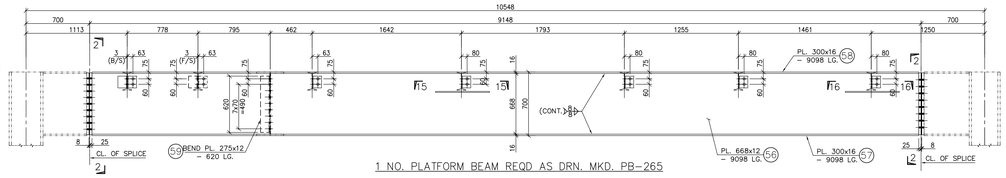

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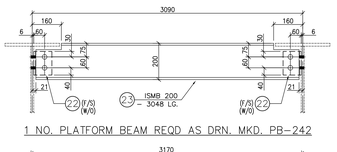

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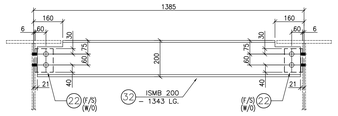

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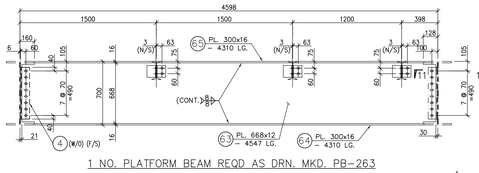

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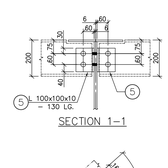
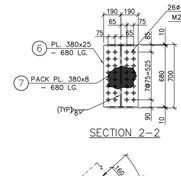
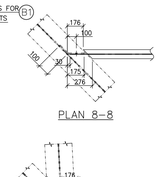


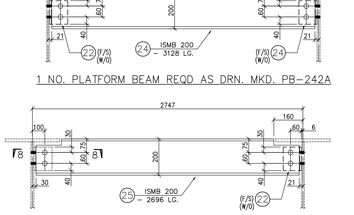
SECTION 1–1



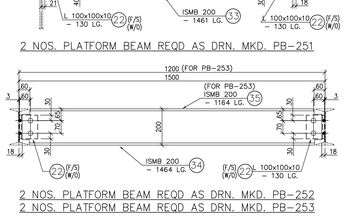
SECTION 2–2



PLAN 8–8



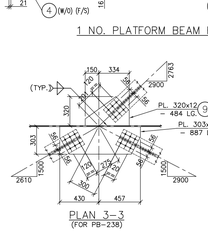
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-242A



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-251

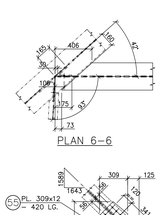
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-243

2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-252
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-253

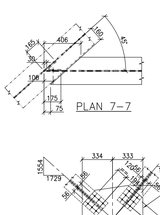


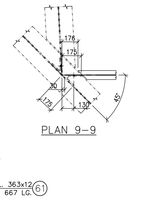
PLAN 3–3 (FOR PB-238)

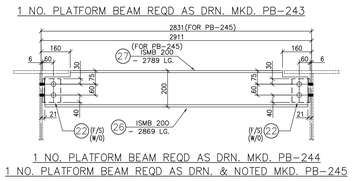
PLAN 4–4 (FOR PB-238)



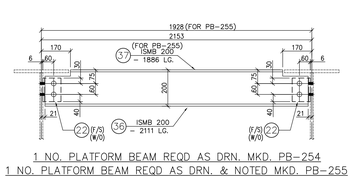
PLAN 6–6



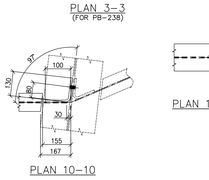




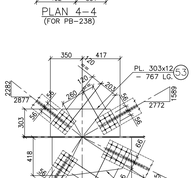
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-244
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB-245



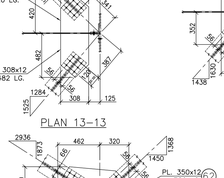
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-254
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB-255



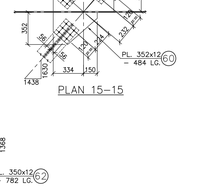
PLAN 10–10



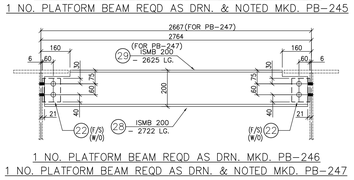
PLAN 12–12



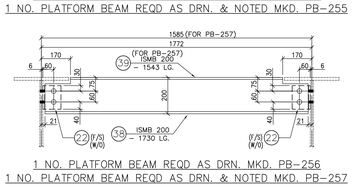
PLAN 16–16



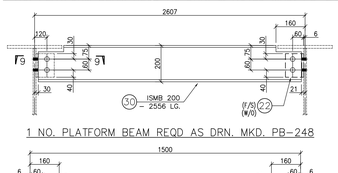
PLAN 15–15



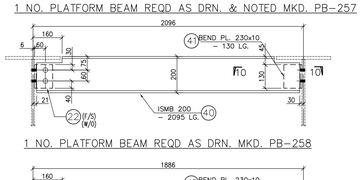
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-246
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB-247



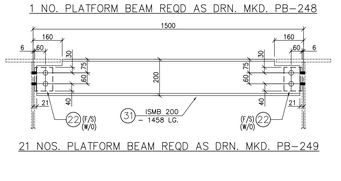
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-256
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB-257



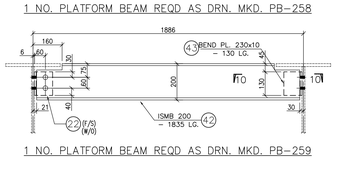
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-248



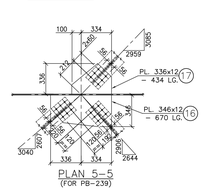
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-258



21 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-249



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-259



PLAN 5–5 (FOR PB-239)

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kg.)	WEIGHT FOR ONE ASSEMBLY (kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (kg.)	EREC. MKD. WT.(kg.)	REMARKS
PB-238	1	PL.668x12	9254	1	94.20	582.31		1		582.31		
	2	PL.300x16	9115	1	125.60	343.45		1		343.45		
	3	PL.300x16	9115	1	125.60	343.45		1		343.45		
	4	L100x100x10	570	1	14.90	8.49		1		8.49		
	5	L100x100x10	130	12	14.90	23.24		12		23.24		
	6	PL.380x25	680	1	196.25	50.71		1		50.71		
	7	PL.380x8	680	1	62.80	16.23		1		16.23		
	8	PL.320x12	887	1	94.20	23.49		1	249398	23.49		
	9	PL.320x12	484	1	94.20	9.60		1	101870	9.60		
	10	PL.304x12	763	1	94.20	19.80		1	210156	19.80		
	11	PL.443x12	651	1	94.20	21.82		1	231646	21.82		
						1442.60	1			1442.60	**1442.60**	
PB-239	12	PL.668x12	7349	1	94.20	462.44		1		462.44		
	13	PL.300x16	7167	1	125.60	270.05		1		270.05		
	14	PL.300x16	7167	1	125.60	270.05		1		270.05		
	4	L100x100x10	570	1	14.90	8.49		1		8.49		
	5	L100x100x10	130	8	14.90	15.50		8		15.50		
	15	NOT USE										
	16	PL.346x12	670	1	94.20	18.45		1	195862	18.45		
	17	PL.336x12	434	1	94.20	9.63		1	102265	9.63		
						1054.62	1			1054.62	**1054.62**	
PB-240	18	PL.668x12	3765	1	94.20	236.91		1		236.91		
	19	PL.300x16	3949	1	125.60	148.80		1		148.80		
	20	PL.300x16	9958	1	125.60	375.22		1		375.22		
	4	L100x100x10	570	1	14.90	8.49		1		8.49		
	5	L100x100x10	130	4	14.90	7.75		4		7.75		
						777.17	1			777.17	**777.17**	
PB-241	21	ISMB 200	2252	1	24.20	54.50		1		54.50		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
						56.44	1			56.44	**56.44**	
PB-242	23	ISMB 200	3048	1	24.20	73.76		1		73.76		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						77.64	1			77.64	**77.64**	
PB-242A	24	ISMB 200	3128	1	24.20	75.70		1		75.70		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						79.57	1			79.57	**79.57**	
PB-243	25	ISMB 200	2696	1	24.20	65.24		1		65.24		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
						67.18	1			67.18	**67.18**	
PB-244	26	ISMB 200	2869	1	24.20	69.43		1		69.43		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						73.30	1			73.30	**73.30**	
PB-245	27	ISMB 200	2789	1	24.20	67.49		1		67.49		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						71.37	1			71.37	**71.37**	
PB-246	28	ISMB 200	2722	1	24.20	65.87		1		65.87		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						69.75	1			69.75	**69.75**	
PB-247	29	ISMB 200	2625	1	24.20	63.53		1		63.53		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						67.40	1			67.40	**67.40**	
PB-248	30	ISMB 200	2556	1	24.20	61.86		1		61.86		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
						63.79	1			63.79	**63.79**	
PB-248	31	ISMB 200	1458	1	24.20	35.28		21		740.96		
	22	L100x100x10	130	2	14.90	3.87		42		81.35		
						39.16	21			822.31	**822.31**	
PB-250	32	ISMB 200	1343	1	24.20	32.50		7		227.50		
	22	L100x100x10	130	2	14.90	3.87		14		27.12		
						36.37	7			254.62	**254.62**	
PB-251	33	ISMB 200	1461	1	24.20	35.36		2		70.71		
	22	L100x100x10	130	2	14.90	3.87		4		7.75		
						39.23	2			78.46	**78.46**	
PB-252	34	ISMB 200	1464	1	24.20	35.43		2		70.86		
	22	L100x100x10	130	2	14.90	3.87		4		7.75		
						39.30	2			78.61	**78.61**	
PB-253	35	ISMB 200	1164	1	24.20	28.17		2		56.34		
	22	L100x100x10	130	2	14.90	3.87		4		7.75		
						32.04	2			64.09	**64.09**	
PB-254	36	ISMB 200	2111	1	24.20	51.09		1		51.09		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						54.96	1			54.96	**54.96**	
PB-255	37	ISMB 200	1888	1	24.20	45.64		1		45.64		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						49.52	1			49.52	**49.52**	
PB-256	38	ISMB 200	1730	1	24.20	41.87		1		41.87		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						45.74	1			45.74	**45.74**	
PB-257	39	ISMB 200	1543	1	24.20	37.34		1		37.34		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						41.21	1			41.21	**41.21**	
PB-258	40	ISMB 200	2095	1	24.20	50.70		1		50.70		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
	41	PL.230x10	130	1	78.50	2.35		1		2.35		
						54.98	1			54.98	**54.98**	
PB-259	42	ISMB 200	1835	1	24.20	44.41		1		44.41		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
	43	PL.230x10	130	1	78.50	2.35		1		2.35		
						48.69	1			48.69	**48.69**	
PB-260	44	ISMB 200	1888	1	24.20	40.85		1		40.85		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
	45	PL.230x10	130	1	78.50	2.35		1		2.35		
						45.13	1			45.13	**45.13**	
PB-261	46	ISMB 200	1515	1	24.20	36.66		1		36.66		
	22	L100x100x10	130	1	14.90	1.94		1		1.94		
	47	PL.230x10	130	1	78.50	2.35		1		2.35		
						40.95	1			40.95	**40.95**	
PB-262	48	ISMB 200	750	1	24.20	18.15		1		18.15		
	22	L100x100x10	130	2	14.90	3.87		2		3.87		
						22.02	1			22.02	**22.02**	
PB-264	49	PL.668x12	7530	1	94.20	473.83		1		473.83		
	50	PL.300x16	7252	1	125.60	273.26		1		273.26		
	51	PL.300x16	7252	1	125.60	273.26		1		273.26		
	4	L100x100x10	570	2	14.90	16.99		2		16.99		
	5	L100x100x10	130	8	14.90	15.50		8		15.50		
	52	PL.418x12	874	1	94.20	29.41		1	312236	29.41		
	53	PL.303x12	767	1	94.20	19.84		1	210614	19.84		
	54	PL.308x12	482	1	94.20	12.05		1	127600	12.05		
	55	PL.309x12	420	1	94.20	10.16		1	107829	10.16		
						1124.28	1			1124.28	**1124.28**	
PB-265	56	PL.668x12	9098	1	94.20	572.92		1		572.92		
	57	PL.300x16	9098	1	125.60	342.81		1		342.81		
	58	PL.300x16	9098	1	125.60	342.81		1		342.81		
	5	L100x100x10	130	3	14.90	5.81		3		5.81		
	6	PL.380x25	680	1	196.25	50.71		1		50.71		
	7	PL.380x8	680	1	62.80	16.23		1		16.23		
	59	PL.275x12	620	1	94.20	16.06		1		16.06		
	60	PL.352x12	484	1	94.20	10.62		1	112782	10.62		
	61	PL.363x12	667	1	94.20	19.06		1	202372	19.06		
	62	PL.350x12	782	1	94.20	21.82		1	231683	21.82		
						1288.44	1			1288.44	**1396.44**	
PB-263	63	PL.668x12	4547	1	94.20	286.12		1		286.12		
	64	PL.300x16	4310	1	125.60	162.40		1		162.40		
	65	PL.300x16	4310	1	125.60	162.40		1		162.40		
	4	L100x100x10	570	1	14.90	8.49		1		8.49		
	5	L100x100x10	130	3	14.90	5.81		3		5.81		
						625.23	1			625.23	**625.23**	
TOTAL WEIGHT 8750.07 KG. = 8.75 T.												

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 200	2130.45	E350, SA/IS: 2062 GR-A
2	ISMB 125	0.00	E350, SA/IS: 2062 GR-A
3	L100x100x10	312.45	E350, SA/IS: 2062 GR-A
4	PL. 25 THK.	101.42	E350, SA/IS: 2062 GR-A
5	PL. 16 THK.	3307.96	E350, SA/IS: 2062 GR-A
6	PL. 12 THK.	2855.94	E350, SA/IS: 2062 GR-A
7	PL. 10 THK.	9.39	E350, SA/IS: 2062 GR-A
8	PL. 8 THK.	32.46	E350, SA/IS: 2062 GR-A
TOTAL WEIGHT =		8750.07	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	96	96	29.952
B1	M24	P	P.C. 8.8	60	480	480	204.96
						TOTAIL WIGHT=	234.912

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

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430

SCALE NTS

WEIGHT (KG)

REF. TO ASSY DRG.

ITEM NO.

NO.OF ITEMS

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO.
0-96132-1-0007

REV. 00

SHEET NO. 01 NO OF SHEETS 01

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE

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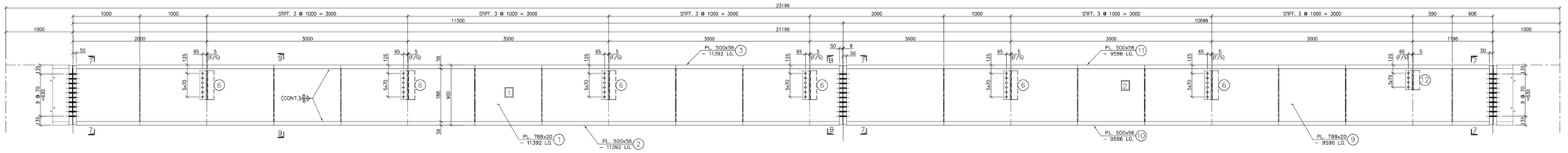
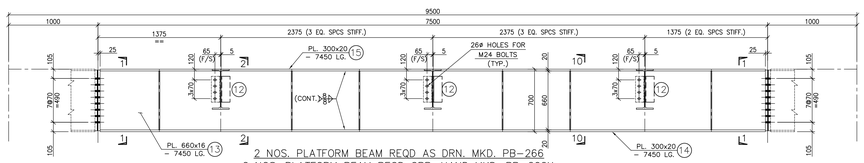


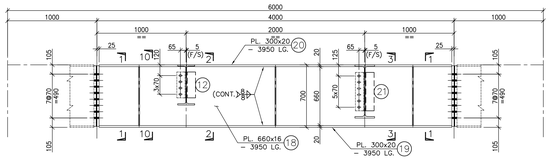
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–272
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–272X

SECTION 2–2

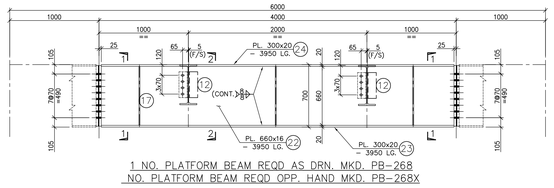
SECTION 1–1



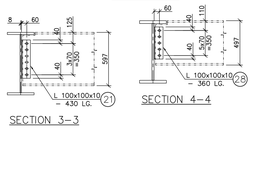
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–266
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–266X



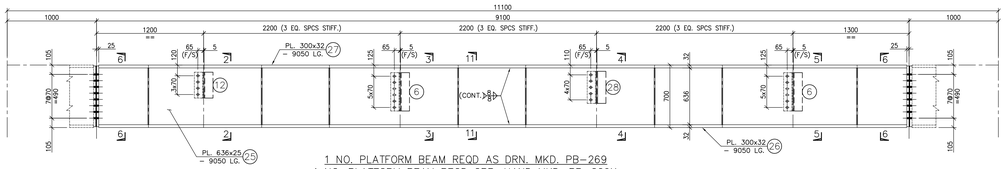
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–267
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–267X



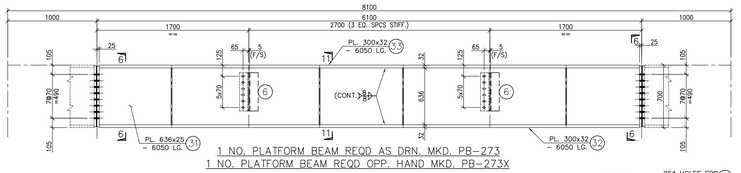
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–268
NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–268X



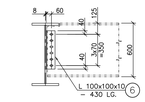
SECTION 3–3 SECTION 4–4



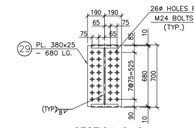
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–269
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–269X



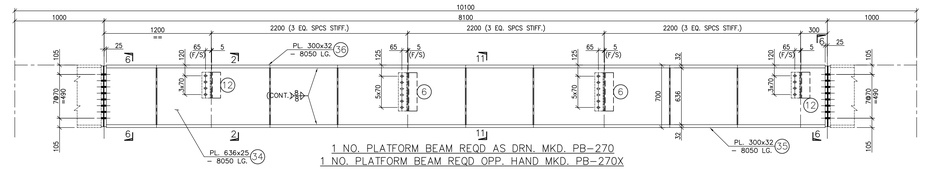
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–273
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–273X



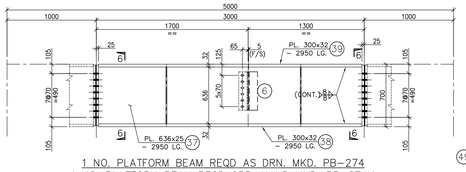
SECTION 5–5



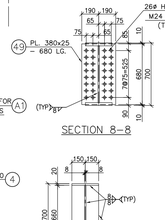
SECTION 6–6



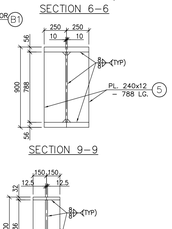
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–270
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–270X



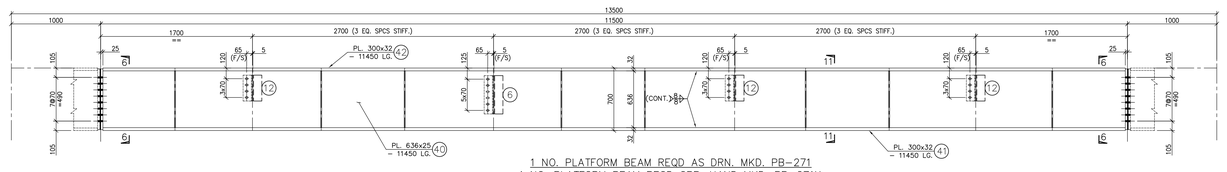
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–274
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–274X



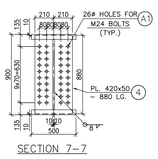
SECTION 8–8



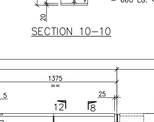
SECTION 9–9



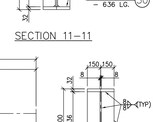
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–271
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–271X



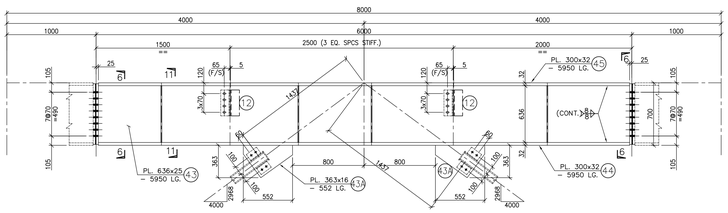
SECTION 7–7



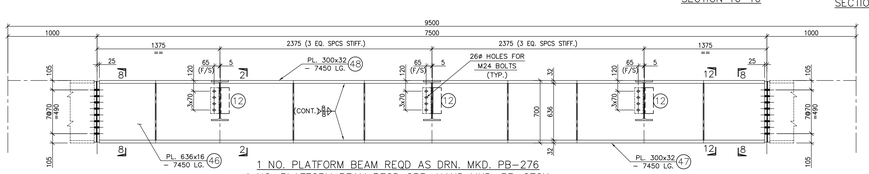
SECTION 10–10



SECTION 11–11

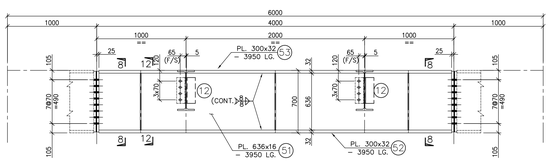


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–275
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–275X

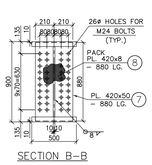


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–276
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–276X

SECTION 12–12



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–277
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–277X



SECTION B–B

ABSTRACT

SL.NO	SECTION	TOTAL WT.	MATL.SPCN
1	L100x100x10	405.88	E350, SA/IS: 2062 GR-A
2	PL. 56 THK.	18492.65	E350, SA/IS: 2062 GR-A
3	PL. 50 THK.	1160.54	E350, SA/IS: 2062 GR-A
4	PL. 32 THK.	16322.98	E350, SA/IS: 2062 GR-A
5	PL. 25 THK.	13378.44	E350, SA/IS: 2062 GR-A
6	PL. 20 THK.	9468.62	E350, SA/IS: 2062 GR-A
7	PL. 16 THK.	5601.36	E350, SA/IS: 2062 GR-A
8	PL. 12 THK.	3031.19	E350, SA/IS: 2062 GR-A
9	FL. 8 THK.	46.42	E350, SA/IS: 2062 GR-A
	TOTAL WEIGHT =	67888.08	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	240	240	141.12
B1	M24	P	P.C. 8.8	90	1536	1536	655.872
					TOTAL WEIGHT=		796.992

BILL OF MATERIALS

ERECTION MKD.	BOX MKD.	ITEM NO.	WIDTH	THICK.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kg.)	WEIGHT FOR ONE ASSEMBLY (kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	WEIGHT FOR TOTAL ASSEMBLY (kgs.)	EREC. MKD. WT.(kgs.)	REMARKS
PB-272.272X	1	1	788	20	PL.788x20	11392	1	157.00	1409.37		2	2818.75		
		2	500	56	PL.500x56	11392	1	439.60	2503.96		2	5007.92		
		3	500	56	PL.500x56	11392	1	439.60	2503.96		2	5007.92		
		4	420	50	PL.420x50	880	1	392.50	145.07		2	290.14		
		5	240	12	PL.240x12	788	14	94.20	249.41		28	498.82		
		6			L100x100x10	430	4	14.90	25.63		8	51.26		
		7	420	50	PL.420x50	880	1	392.50	145.07		2	290.14		
		8	420	8	PL.420x8	880	1	52.80	23.21		2	46.42		
									7005.68	1+1		14011.36	**14011.36**	
	2	9	788	20	PL.788x20	9596	1	157.00	1187.18		2	2374.36		
		10	500	56	PL.500x56	9596	1	439.60	2109.20		2	4218.40		
		11	500	56	PL.500x56	9596	1	439.60	2109.20		2	4218.40		
		4	420	50	PL.420x50	880	1	392.50	145.07		2	290.14		
		5	240	12	PL.240x12	788	12	94.20	213.78		24	427.56		
		6			L100x100x10	430	2	14.90	12.81		4	25.63		
		12			L100x100x10	290	1	14.90	4.32		2	8.64		
		7	420	50	PL.420x50	880	1	392.50	145.07		2	290.14		
									5926.63	1+1		11853.27	**11853.27**	
PB-266.266X		13	660	16	PL.660x16	7450	1	125.60	617.58		4	2470.30		
		14	300	20	PL.300x20	7450	1	157.00	350.90		4	1403.58		
		15	300	20	PL.300x20	7450	1	157.00	350.90		4	1403.58		
		16	420	25	PL.420x25	680	2	196.25	112.10		8	448.39		
		12			L100x100x10	290	3	14.90	12.96		12	51.85		
		17	142	12	PL.142x12	660	12	94.20	105.94		48	423.76		
									1550.37	2+2		6201.47	**6201.47**	
PB-267.267X		18	660	16	PL.660x16	3950	1	125.60	327.44		2	654.88		
		19	300	20	PL.300x20	3950	1	157.00	186.05		2	372.09		
		20	300	20	PL.300x20	3950	1	157.00	186.05		2	372.09		
		16	420	25	PL.420x25	680	2	196.25	112.10		4	224.20		
		21			L100x100x10	430	1	14.90	6.41		2	12.81		
		12			L100x100x10	290	1	14.90	4.32		2	8.64		
		17	142	12	PL.142x12	660	6	94.20	52.97		12	105.94		
									875.33	1+1		1750.65	**1750.65**	
PB-268.268X		22	660	16	PL.660x16	3950	1	125.60	327.44		2	654.88		
		23	300	20	PL.300x20	3950	1	157.00	186.05		2	372.09		
		24	300	20	PL.300x20	3950	1	157.00	186.05		2	372.09		
		16	420	25	PL.420x25	680	2	196.25	112.10		4	224.20		
		21			L100x100x10	430	1	14.90	6.41		2	12.81		
		12			L100x100x10	290	1	14.90	4.32		2	8.64		
		17	142	12	PL.142x12	660	6	94.20	52.97		12	105.94		
									875.33	1+1		1750.65	**1750.65**	
PB-269.269X		25	636	25	PL.636x25	9050	1	196.25	1129.58		2	2259.15		
		26	300	32	PL.300x32	9050	1	251.20	682.01		2	1364.02		
		27	300	32	PL.300x32	9050	1	251.20	682.01		2	1364.02		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		28			L100x100x10	360	1	14.90	5.36		2	10.73		
		12			L100x100x10	290	1	14.90	4.32		2	8.64		
		30	137.5	12	PL.137.5x12	636	16	94.20	131.80		32	263.61		
		6			L100x100x10	430	2	14.90	12.81		4	25.63		
									2749.32	1+1		5498.63	**5498.63**	
PB-273.273X		31	636	25	PL.636x25	6050	1	196.25	755.13		2	1510.26		
		32	300	32	PL.300x32	6050	1	251.20	455.93		2	911.86		
		33	300	32	PL.300x32	6050	1	251.20	455.93		2	911.86		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		30	137.5	12	PL.137.5x12	636	8	94.20	65.90		16	131.80		
		6			L100x100x10	430	2	14.90	12.81		4	25.63		
									1847.13	1+1		3694.25	**3694.25**	
PB-270.270X		34	636	25	PL.636x25	8050	1	196.25	1004.76		2	2009.52		
		35	300	32	PL.300x32	8050	1	251.20	606.65		2	1213.30		
		36	300	32	PL.300x32	8050	1	251.20	606.65		2	1213.30		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		30	137.5	12	PL.137.5x12	636	14	94.20	115.33		28	230.66		
		6			L100x100x10	430	2	14.90	12.81		4	25.63		
		12			L100x100x10	290	2	14.90	8.64		4	17.28		
									2456.26	1+1		4912.53	**4912.53**	
PB-274.274X		37	636	25	PL.636x25	2950	1	196.25	368.20		2	736.41		
		38	300	32	PL.300x32	2950	1	251.20	222.31		2	444.62		
		39	300	32	PL.300x32	2950	1	251.20	222.31		2	444.62		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		30	137.5	12	PL.137.5x12	636	4	94.20	32.95		8	65.90		
		6			L100x100x10	430	1	14.90	6.41		2	12.81		
									953.61	1+1		1907.22	**1907.22**	
PB-271.271X		40	636	25	PL.636x25	11450	1	196.25	1429.13		2	2858.26		
		41	300	32	PL.300x32	11450	1	251.20	862.87		2	1725.74		
		42	300	32	PL.300x32	11450	1	251.20	862.87		2	1725.74		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		30	137.5	12	PL.137.5x12	636	16	94.20	131.80		32	263.61		
		6			L100x100x10	430	1	14.90	6.41		2	12.81		
		12			L100x100x10	290	3	14.90	12.96		6	25.93		
									3407.47	1+1		6814.94	**6814.94**	
PB-275.275X		43	636	25	PL.636x25	5950	1	196.25	742.65		2	1485.30		
		44	300	32	PL.300x32	5950	1	251.20	448.39		2	896.78		
		45	300	32	PL.300x32	5950	1	251.20	448.39		2	896.78		
		29	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		30	137.5	12	PL.137.5x12	636	8	94.20	65.90		16	131.80		
		12			L100x100x10	290	2	14.90	8.64		4	17.28		
		43A	363	12	PL.363x12	552	4	34.20	37.75		8	75.50		
									1853.15	1+1		3706.30	**3706.30**	
PB-276.276X		46	636	16	PL.636x16	7450	1	125.60	595.12		2	1190.24		
		47	300	32	PL.300x32	7450	1	251.20	561.43		2	1122.86		
		45	300	32	PL.300x32	5950	1	251.20	448.39		2	896.78		
		49	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		50	142	12	PL.142x12	636	12	94.20	102.09		24	204.18		
		12			L100x100x10	290	3	14.90	12.96		6	25.93		
									1821.42	1+1		3642.83	**3642.83**	
PB-277.277X		51	636	16	PL.636x16	3950	1	125.60	315.53		2	631.06		
		52	300	32	PL.300x32	3950	1	251.20	297.67		2	595.34		
		53	300	32	PL.300x32	3950	1	251.20	297.67		2	595.34		
		49	380	25	PL.380x25	680	2	196.25	101.42		4	202.84		
		50	142	12	PL.142x12	636	8	94.20	51.04		12	102.09		
		12			L100x100x10	290	2	14.90	8.64		4	17.28		
									1071.98	1+1		2143.97	**2143.97**	
TOTAL WEIGHT 67888.08 KG. = 67.888 T.														

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	4430	NTS				

RESTRICTED USE

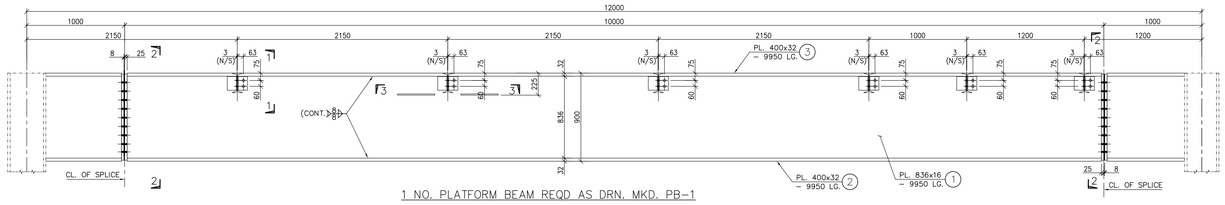
TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0008 REV. 00

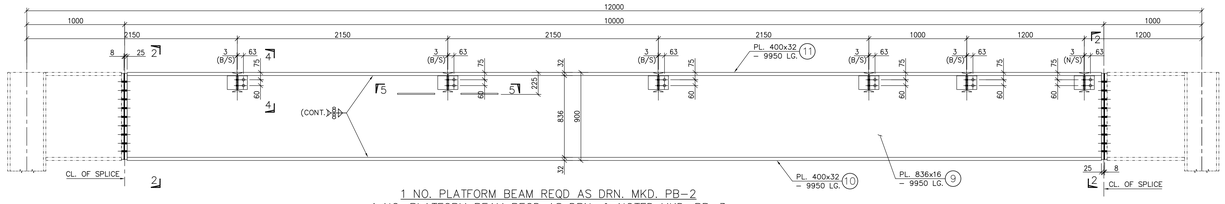
SHEET NO. 01 NO OF SHEETS 01

Sep Fri 27 09:30 2019

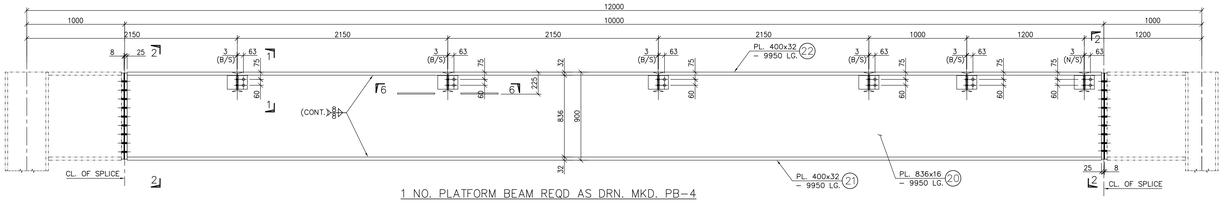
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



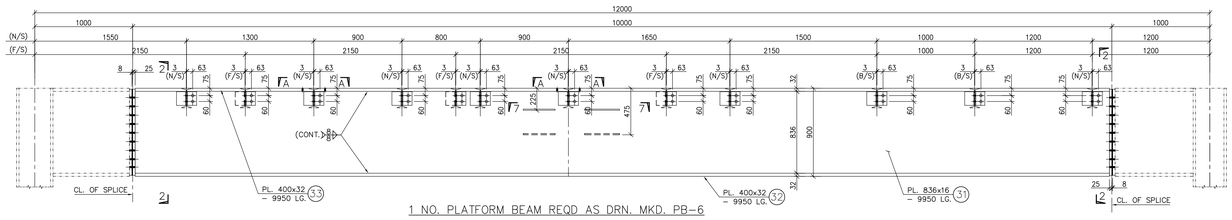
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–1



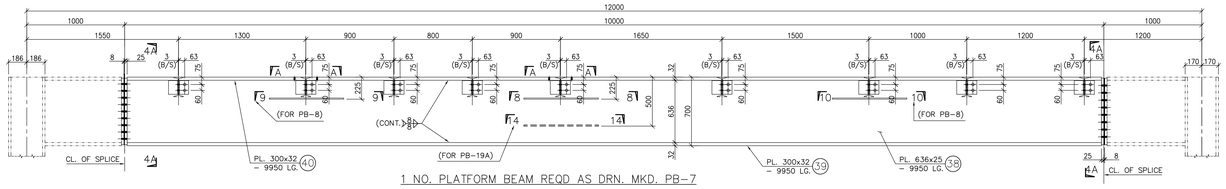
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–2
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–3



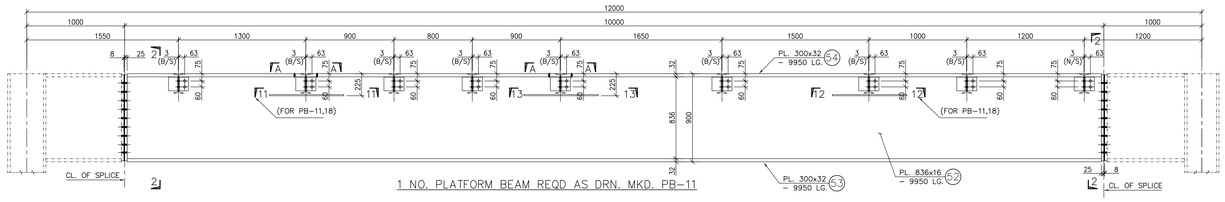
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–4
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–5



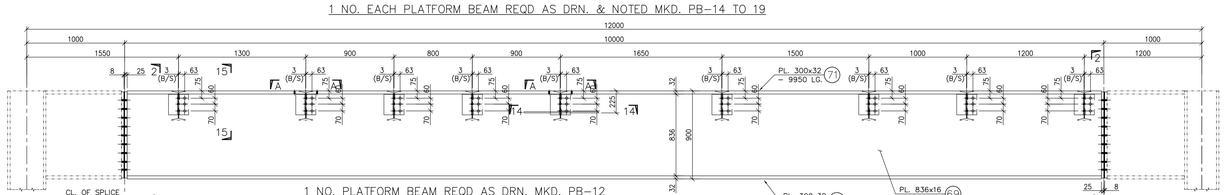
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–6



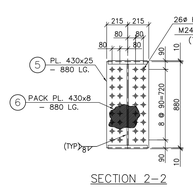
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–7
1 NO. EACH PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–8,9,10,19A



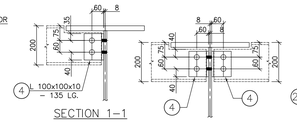
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–11
1 NO. EACH PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–14 TO 19



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–12
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–13

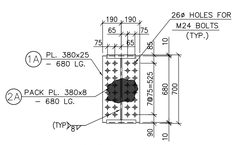


SECTION 2–2

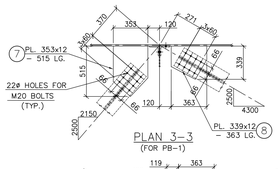


SECTION 1–1

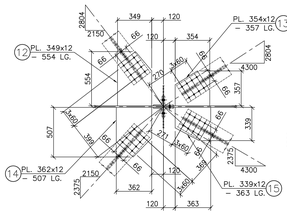
SECTION 4–4



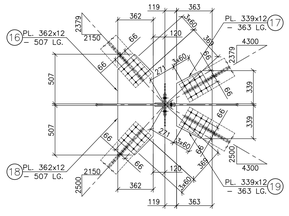
SECTION 4A–4A



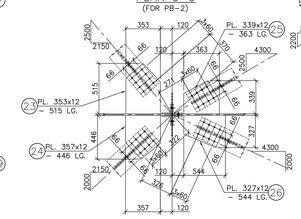
PLAN 3–3
(FOR PB–1)



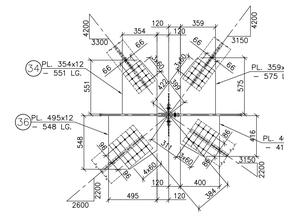
PLAN 5–5
(FOR PB–2)



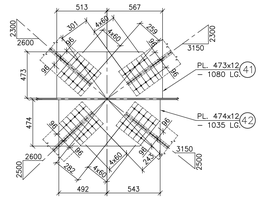
PLAN 5–5
(FOR PB–3)



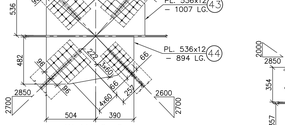
PLAN 6–6
(FOR PB–4)



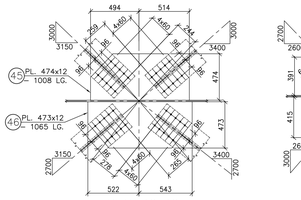
PLAN 7–7
(FOR PB–6)



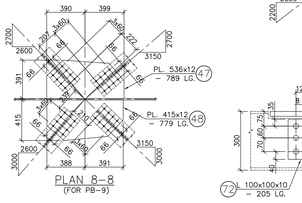
PLAN 8–8
(FOR PB–7)



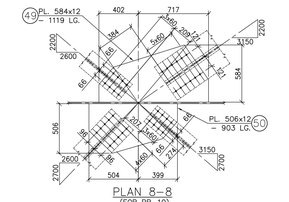
PLAN 9–9
(FOR PB–8)



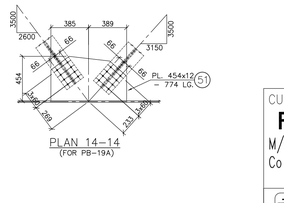
PLAN 10–10
(FOR PB–8)



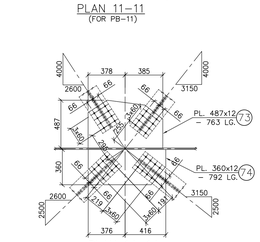
PLAN 8–8
(FOR PB–9)



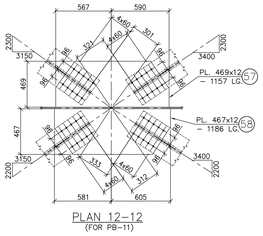
PLAN 8–8
(FOR PB–10)



PLAN 14–14
(FOR PB–19A)

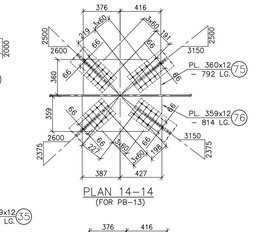


PLAN 11–11
(FOR PB–11)

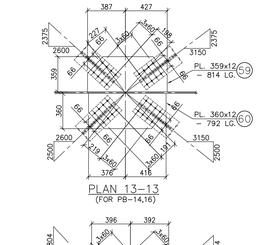


PLAN 12–12
(FOR PB–11)

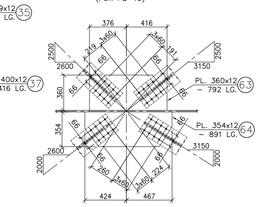
PLAN 14–14
(FOR PB–12)



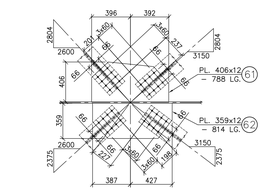
PLAN 14–14
(FOR PB–13)



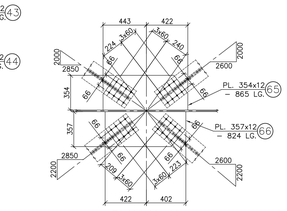
PLAN 13–13
(FOR PB–14,16)



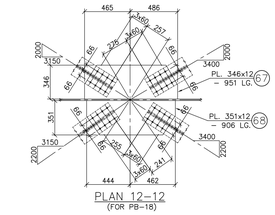
PLAN 13–13
(FOR PB–17)



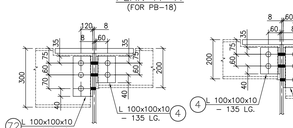
PLAN 13–13
(FOR PB–15)



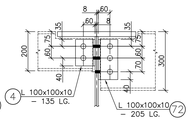
PLAN 11–11
(FOR PB–18)



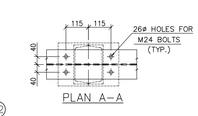
PLAN 12–12
(FOR PB–18)



SECTION 15–15
(FOR PB–12)



SECTION 15–15
(FOR PB–13)



PLAN A–A

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR
CODE	4430

SCALE NTS | WEIGHT (KG) | REF. TO ASSY DRG. | ITEM NO. | NO.OF ITEMS

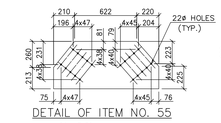
RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

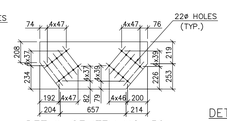
DRAWING NO. 0-96132-1-0009 | REV. 00

SHEET NO. 01 | NO OF SHEETS 02

Sep Fri 27 16:41 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



DETAIL OF ITEM NO. 55



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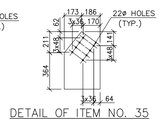

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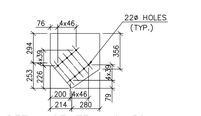

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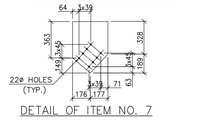
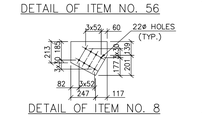
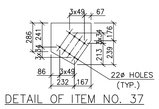


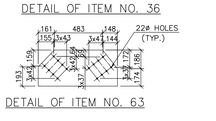
DETAIL OF ITEM NO. 7



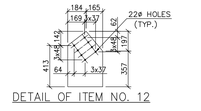
DETAIL OF ITEM NO. 8



DETAIL OF ITEM NO. 37



DETAIL OF ITEM NO. 63



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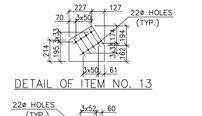

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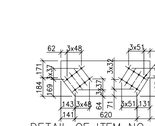
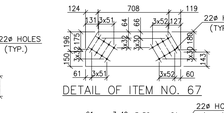


DETAIL OF ITEM NO. 64



DETAIL OF ITEM NO. 67

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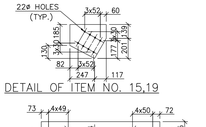

DETAIL OF ITEM NO. 15,19

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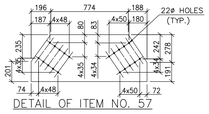

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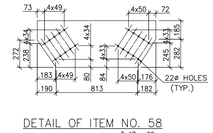

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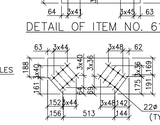

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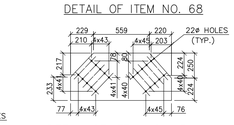

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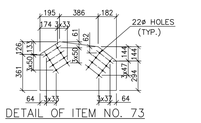

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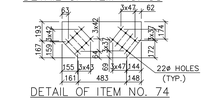

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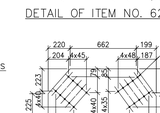

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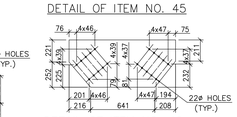
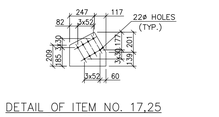


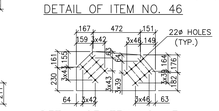
DETAIL OF ITEM NO. 46

DETAIL OF ITEM NO. 16

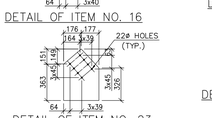


DETAIL OF ITEM NO. 17,25

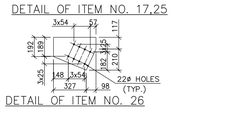
DETAIL OF ITEM NO. 42



DETAIL OF ITEM NO. 47

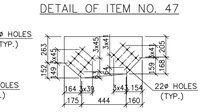


DETAIL OF ITEM NO. 23

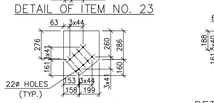


DETAIL OF ITEM NO. 26

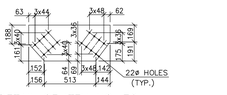
DETAIL OF ITEM NO. 43



DETAIL OF ITEM NO. 48



DETAIL OF ITEM NO. 24

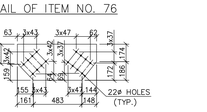


DETAIL OF ITEM NO. 76

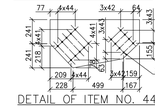
DETAIL OF ITEM NO. 44

DETAIL OF ITEM NO. 49

DETAIL OF ITEM NO. 75



DETAIL OF ITEM NO. 60



DETAIL OF ITEM NO. 65

DETAIL OF ITEM NO. 50

DETAIL OF ITEM NO. 69

DETAIL OF ITEM NO. 30

DETAIL OF ITEM NO. 66

DETAIL OF ITEM NO. 51

DETAIL OF ITEM NO. 29

DETAIL OF ITEM NO. 34

DETAIL OF ITEM NO. 28

PLAN 13–13
(FOR PB-11A)

PLAN 1A–1A
(FOR PB-)

PLAN 2A–2A
(FOR PB-1)

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

BILL OF MATERIALS PART-II

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-11	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	55	PL.473x12	1051	1	94.20	41.74		1	443082	41.74		
	56	PL.473x12	1076	1	94.20	42.10		1	446913	42.10		
	57	PL.469x12	1157	1	94.20	46.19		1	490338	46.19		
	58	PL.467x12	1186	1	94.20	47.13		1	500352	47.13		
						3451.72	1	2		3451.72	**3451.72**	
PB-11A	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	64	PL.354x12	891	1	94.20	27.27		1	289495	27.27		
	77	PL.469x12	1068	1	94.20	39.32		1	417397	39.32		
						3341.15	1			3341.15	**3341.15**	
PB-14,16	52	PL.836x16	9950	1	125.60	1044.77		2		2089.53		
	53	PL.400x32	9950	1	251.20	999.78		2		1999.55		
	54	PL.400x32	9950	1	251.20	999.78		2		1999.55		
	4	L100x100x10	135	17	14.90	34.20		34		68.39		
	5	PL.430x25	880	2	196.25	148.52		4		297.04		
	6	PL.430x8	880	2	62.80	47.53		4		95.05		
	59	PL.359x12	814	1	94.20	24.97		2	265098	49.94		
	60	PL.362x12	792	1	94.20	24.31		2	258090	48.62		
						3323.85	1+1			6647.69	**6647.69**	
PB-15	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	61	PL.406x12	788	1	94.20	25.86		1	274567	25.86		
	62	PL.359x12	814	1	94.20	24.97		1	265098	24.97		
						3325.40	1			3325.40	**3325.40**	
PB-17	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	63	PL.360x12	792	1	94.20	24.31		1	258090	24.31		
	64	PL.354x12	891	1	94.20	27.27		1	289495	27.27		
						3326.14	1			3326.14	**3326.14**	
PB-18	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	65	PL.354x12	865	1	94.20	26.44		1	280666	26.44		
	66	PL.357x12	824	1	94.20	25.15		1	266998	25.15		
	67	PL.346x12	951	1	94.20	28.59		1	303529	28.59		
	68	PL.351x12	906	1	94.20	27.57		1	292650	27.57		
						3382.31	1			3382.31	**3382.31**	
PB-19	52	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	53	PL.400x32	9950	1	251.20	999.78		1		999.78		
	54	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	17	14.90	34.20		17		34.20		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	67	PL.357x12	846	1	94.20	25.97		1	275670	25.97		
	79	PL.354x12	887	1	94.20	27.17		1	288385	27.17		
						3327.70	1			3327.70	**3327.70**	
PB-12	69	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	70	PL.400x32	9950	1	251.20	999.78		1		999.78		
	71	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	9	14.90	18.10		9		18.10		
	72	L100x100x10	205	9	14.90	27.49		9		27.49		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	73	PL.487x12	763	1	94.20	30.77		1	326680	30.77		
	74	PL.360x12	792	1	94.20	24.33		1	258241	24.33		
						3341.06	1			3341.06	**3341.06**	
PB-13	69	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	70	PL.400x32	9950	1	251.20	999.78		1		999.78		
	71	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	9	14.90	18.10		9		18.10		
	72	L100x100x10	205	9	14.90	27.49		9		27.49		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	75	PL.360x12	792	1	94.20	24.33		1	258241	24.33		
	76	PL.359x12	814	1	94.20	24.97		1	265098	24.97		
						3335.26	1			3335.26	**3335.26**	
TOTAL WEIGHT 68485.32 KG. = 68.485 T.												

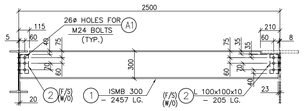
ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	L100x100x10	674.52	E350, SA/IS: 2062 GR-A
2	PL. 32 THK.	39515.14	E350, SA/IS: 2062 GR-A
3	PL. 25 THK.	9241.53	E350, SA/IS: 2062 GR-A
4	PL. 16 THK.	16728.25	E350, SAIS: 2062 GR-A
5	PL. 12 THK.	1403.16	E350, SA/IS: 2062 GR-A
	PL. 8 THK.	922.71	
TOTAL WEIGHT =		68485.32	

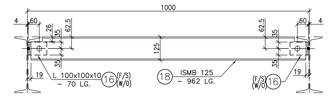
BOLT SCHEDULE							
ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	1512	1512	889.056
					TOTAIL WIGHT=		889.056

BILL OF MATERIALS PART-I

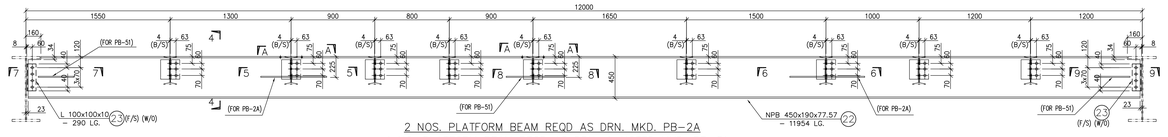
ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-1	1	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	2	PL.400x32	9950	1	251.20	999.78		1		999.78		
	3	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	6	14.90	12.07		6		12.07		
	5	PL.430x25	880	4	196.25	297.04		4		297.04		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	7	PL.353x12	515	1	94.20	14.28		1	151568	14.28		
	8	PL.339x12	363	1	94.20	9.00		1	95514	9.00		
	1A	PL.836x16	772	1	125.60	12.00		1	95514	12.00		
	2A	PL.400x32	772	1	251.20	23.99		1	95514	23.99		
	3A	PL.353x12	649	1	94.20	9.00		1	95514	9.00		
	4A	PL.356x12	473	1	94.20	9.00		1	95514	9.00		
						3478.22	1			3478.22	**3478.22**	
PB-2	9	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	10	PL.400x32	9950	1	251.20	999.78		1		999.78		
	11	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	11	14.90	22.13		11		22.13		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	12	PL.349x12	554	1	94.20	15.85		1	168269	15.85		
	13	PL.354x12	357	1	94.20	9.28		1	98486	9.28		
	14	PL.362x12	507	1	94.20	14.29		1	151670	14.29		
	15	PL.339x12	363	1	94.20	8.96		1	95074	8.96		
						3310.86	1			3310.86	**3310.86**	
PB-3	9	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	10	PL.400x32	9950	1	251.20	999.78		1		999.78		
	11	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	11	14.90	22.13		11		22.13		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	16	PL.362x12	507	1	94.20	14.29		1	151670	14.29		
	17	PL.339x12	363	1	94.20	9.00		1	95514	9.00		
	18	PL.362x12	507	1	94.20	14.29		1	151670	14.29		
	19	PL.339x12	363	1	94.20	8.96		1	95074	8.96		
						3309.02	1			3309.02	**3309.02**	
PB-4	20	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	21	PL.400x32	9950	1	251.20	999.78		1		999.78		
	22	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	11	14.90	22.13		11		22.13		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	23	PL.353x12	515	1	94.20	14.48		1	153676	14.48		
	24	PL.357x12	446	1	94.20	12.18		1	129311	12.18		
	25	PL.339x12	363	1	94.20	8.96		1	95074	8.96		
	26	PL.327x12	544	1	94.20	10.04		1	106606	10.04		
						3308.15	1			3308.15	**3308.15**	
PB-5	20	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	21	PL.400x32	9950	1	251.20	999.78		1		999.78		
	22	PL.400x32	9950	1	251.20	999.78		1		999.78		
	66	L100x100x10	135	11	14.90	22.13		11		22.13		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	27	PL.357x12	446	1	94.20	12.18		1	129311	12.18		
	28	PL.518x12	780	1	94.20	10.04		1	106606	10.04		
	29	PL.357x12	446	1	94.20	12.18		1	129311	12.18		
	30	PL.327x12	424	1	94.20	10.04		1	106606	10.04		
						3306.94	1			3306.94	**3306.94**	
PB-6	31	PL.836x16	9950	1	125.60	1044.77		1		1044.77		
	32	PL.400x32	9950	1	251.20	999.78		1		999.78		
	33	PL.400x32	9950	1	251.20	999.78		1		999.78		
	4	L100x100x10	135	14	14.90	28.16		14		28.16		
	5	PL.430x25	880	2	196.25	148.52		2		148.52		
	6	PL.430x8	880	2	62.80	47.53		2		47.53		
	34	PL.354x12	551	1	94.20	15.38		1	163288	15.38		
	35	PL.359x12	575	1	94.20	16.50		1	175123	16.50		
	36	PL.495x12	548	1	94.20	20.27		1	215146	20.27		
	37	PL.400x12	416	1	94.20	12.35		1	131091	12.35		
						3333.02	1			3333.02	**3333.02**	
PB-7	38	PL.636x25	9950	1	196.25	1241.91		1		1241.91		
	39	PL.300x32	9950	1	251.20	749.83		1		749.83		
	40	PL.300x32	9950	1	251.20	749.83		1		749.83		
	4	L100x100x10	135	18	14.90	36.21		18		36.21		
	1A	PL.380x25	680	2	196.25	101.42		2		101.42		
	2A	PL.380x8	680	2	62.80	32.46		2		32.46		
	41	PL.473x12	1080	1	94.20	43.04		1	456881	43.04		
	42	PL.474x12	1035	1	94.20	41.02		1	435491	41.02		
						2995.72	1			2995.72	**2995.72**	
PB-8	38	PL.636x25	9950	1	196.25	1241.91		1		1241.91		
	39	PL.300x32	9950	1	251.20	749.83		1		749.83		
	40	PL.300x32	9950	1	251.20	749.83		1		749.83		
	4	L100x100x10	135	18	14.90	36.21		18		36.21		
	1A	PL.380x25	680	2	196.25	101.42		2		101.42		
	2A	PL.380x8	680	2	62.80	32.46		2		32.46		
	43	PL.536x12	1007	1	94.20	44.43		1	471656	44.43		
	44	PL.536x12	894	1	94.20	33.17		1	352147	33.17		
	45	PL.474x12	1008	1	94.20	39.83		1	422779	39.83		
	46	PL.473x12	1065	1	94.20	41.78		1	443534	41.78		
						3070.87	1			3070.87	**3070.87**	
PB-9	38	PL.636x25	9950	1	196.25	1241.91		1		1241.



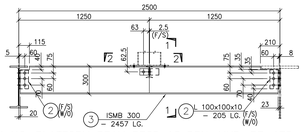
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–174



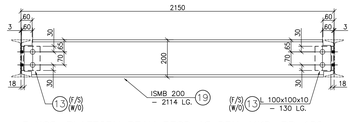
80 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–185



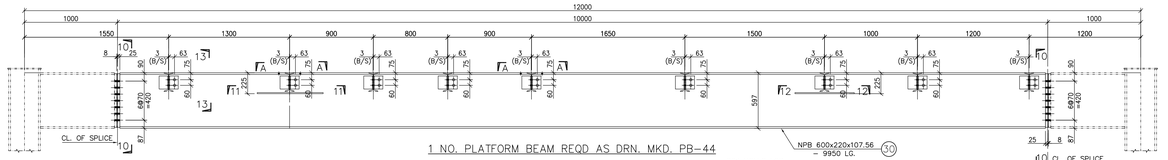
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–2A
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–51



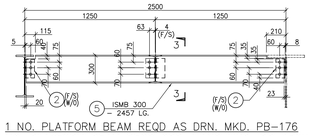
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–175
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–175X



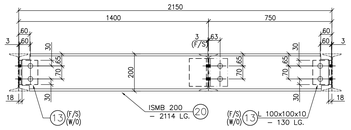
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–186



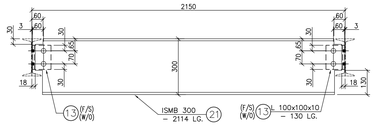
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–44



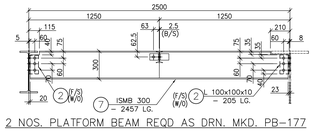
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–176
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–176X



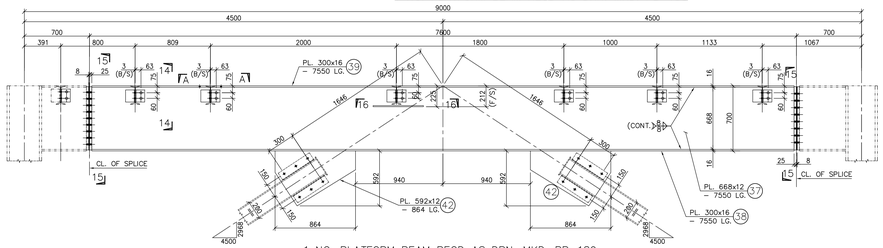
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–187



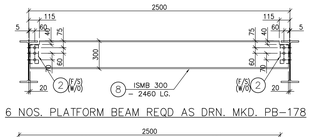
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–188



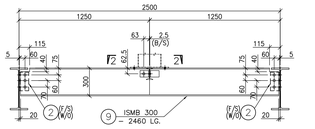
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–177



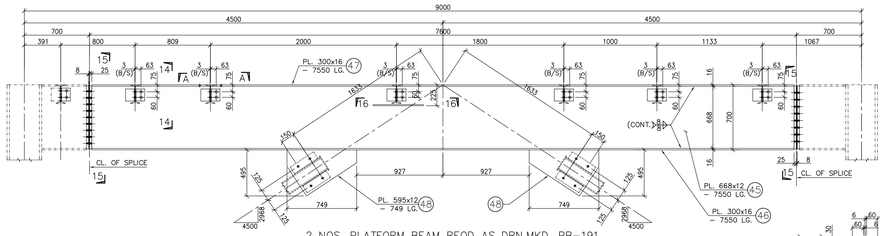
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–189



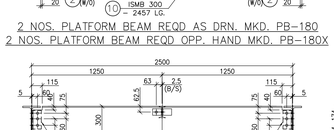
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–178



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–179
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–179X

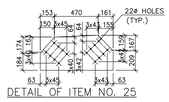


2 NOS. PLATFORM BEAM REQD AS DRN.MKD. PB–191
3 NOS. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–192

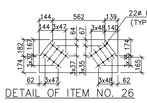


2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–180
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–180X

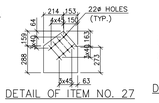
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–181



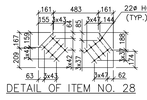
DETAIL OF ITEM NO. 25



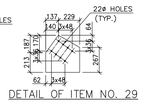
DETAIL OF ITEM NO. 26



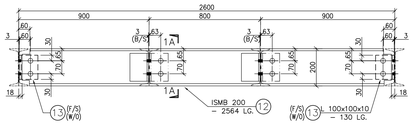
DETAIL OF ITEM NO. 27



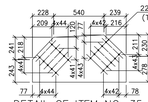
DETAIL OF ITEM NO. 28



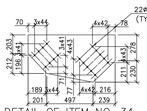
DETAIL OF ITEM NO. 29



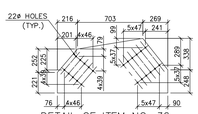
57 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–182



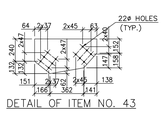
DETAIL OF ITEM NO. 35



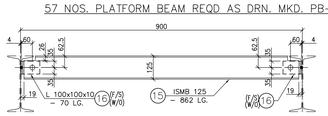
DETAIL OF ITEM NO. 34



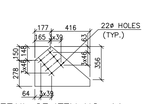
DETAIL OF ITEM NO. 36



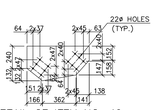
DETAIL OF ITEM NO. 43



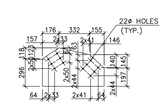
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–183



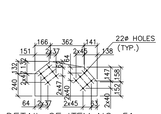
DETAIL OF ITEM NO. 44



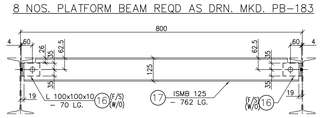
DETAIL OF ITEM NO. 49



DETAIL OF ITEM NO. 50



DETAIL OF ITEM NO. 51



4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–184

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-174	1	ISMB 300	2457	1	46.00	113.02		3		339.07		
	2	L100x100x10	205	2	14.90	6.11		6		18.33		
						119.13	3			357.39	**357.39**	
PB-175,175X	3	ISMB 300	2457	1	46.00	113.02		2		226.04		
	2	L100x100x10	205	2	14.90	6.11		4		12.22		
	4	L100x100x10	130	1	14.90	1.94		2		3.87		
						121.07	1+1			242.14	**242.14**	
PB-176,176X	5	ISMB 300	2457	1	46.00	113.02		2		226.04		
	2	L100x100x10	205	2	14.90	6.11		4		12.22		
	6	L100x100x10	210	1	14.90	3.13		2		6.26		
						122.26	1+1			244.52	**244.52**	
PB-177	7	ISMB 300	2457	1	46.00	113.02		2		226.04		
	2	L100x100x10	205	2	14.90	6.11		4		12.22		
	4	L100x100x10	130	2	14.90	3.87		4		7.75		
						123.01	2			246.01	**246.01**	
PB-178	8	ISMB 300	2460	1	46.00	113.16		6		678.96		
	2	L100x100x10	205	2	14.90	6.11		12		36.65		
						119.27	6			715.61	**715.61**	
PB-179,179X	9	ISMB 300	2460	1	46.00	113.16		2		226.32		
	2	L100x100x10	205	2	14.90	6.11		4		12.22		
	4	L100x100x10	130	2	14.90	3.87		4		7.75		
						123.14	1+1			246.29	**246.29**	
PB-180,180X	10	ISMB 300	2457	1	46.00	113.02		4		452.09		
	2	L100x100x10	205	2	14.90	6.11		8		24.44		
	6	L100x100x10	210	1	14.90	3.13		4		12.52		
						122.26	2+2			489.04	**489.04**	
PB-181	11	ISMB 300	2460	1	46.00	113.16		4		452.64		
	2	L100x100x10	205	2	14.90	6.11		8		24.44		
	4	L100x100x10	130	1	14.90	1.94		4		7.75		
						121.21	4			484.82	**484.82**	
PB-182	12	ISMB 200	2564	1	24.20	62.05		57		3536.78		
	13	L100x100x10	130	2	14.90	3.87		114		220.92		
	14	L100x100x10	130	4	14.90	7.75		228		441.64		
						73.67	57			4199.24	**4199.24**	
PB-183	15	ISMB 125	862	1	13.30	11.46		8		91.72		
	16	L100x100x10	70	2	14.90	2.09		16		16.69		
						13.55	8			108.40	**108.40**	
PB-184	17	ISMB 125	862	1	13.30	11.46		4		45.86		
	16	L100x100x10	70	2	14.90	2.09		8		8.34		
						13.55	4			54.20	**54.20**	
PB-185	18	ISMB 125	962	1	13.30	12.79		80		1023.57		
	16	L100x100x10	70	2	14.90	2.09		160		166.88		
						14.88	80			1190.45	**1190.45**	
PB-186	19	ISMB 200	2114	1	24.20	51.16		3		153.48		
	13	L100x100x10	130	2	14.90	3.87		6		11.62		
						55.03	3			165.10	**165.10**	
PB-187	20	ISMB 200	2114	1	24.20	51.16		1		51.16		
	13	L100x100x10	130	2	14.90	3.87		2		7.74		
	14	L100x100x10	130	1	14.90	1.94		1		1.94		
						56.97	1			56.97	**56.97**	
PB-188	21	ISMB 300	2114	1	46.00	97.24		1		97.24		
	13	L100x100x10	130	2	14.90	3.87		2		3.87		
						101.12	1			101.12	**101.12**	
PB-2A	22	NPB 450x190x77.57	11954	1	77.57	927.27		2		1854.54		
	23	L100x100x10	290	2	14.90	8.64		4		17.28		
	24	L100x100x10	205	18	14.90	54.98		36		109.96		
	25	PL.377x12	783	2	94.20	49.22		4	261259	98.44		
	26	PL.356x12	845	2	94.20	51.62		4	274013	103.25		
						1081.74	2			2183.48	**2183.48**	
PB-51	22	NPB 450x190x77.57	11954	1	77.57	927.27		1		927.27		
	23	L100x100x10	290	2	14.90	8.64		2		8.64		
	24	L100x100x10	205	18	14.90	54.98		18		54.98		
	27	PL.367x12	447	2	94.20	25.18		2	133638	25.18		
	28	PL.377x12	804	2	94.20	51.46		2	273147	51.46		
	29	PL.366x12	399	2	94.20	22.28		2	118257	22.28		
						1067.53	1			1067.53	**1067.53**	
PB-44	30	NPB 600x220x107.56	9950	1	107.56	1070.22		1		1070.22		
	31	PL.240x25	577	2	196.25	54.35		4		54.35		
	32	PL.240x8	577	2	62.80	17.39		4		17.39		
	33	L100x100x10	130	18	14.90	34.87		36		34.87		
	34	PL.508x12	937	1	94.20	36.29		1	385237	36.29		
	35	PL.508x12	1008	1	94.20	41.91		1	444888	41.91		
	36	PL.587x12	1188	2	94.20	105.37		2	559312	105.37		
						1360.41	1			1360.41	**1360.41**	
PB-189	37	PL.668x12	7550	1	94.20	475.09		1		475.09		
	38	PL.300x16	7550	1	125.60	284.48		1		284.48		
	39	PL.300x16	7550	1	125.60	284.48		1		284.48		
	40	PL.380x25	680	2	196.25	101.42		2		101.42		
	41	PL.380x8	680	2	62.80	32.46		2		32.46		
	33	L100x100x10	130	12	14.90	23.24		12		23.24		
	42	PL.592x12	864	2	94.20	65.61		2	345269	65.61		
	43	PL.373x12	669	1	94.20	19.51		1	207122	19.51		
	44	PL.428x12	593	1	94.20	15.67		1	166354	15.67		
						1301.97	1			1301.97	**1301.97**	
PB-191	45	PL.668x12	7550	1	94.20	475.09		2		950.18		
	46	PL.300x16	7550	1	125.60	284.48		2		568.97		
	47	PL.300x16	7550	1	125.60	284.48		2		568.97		
	40	PL.380x25	680	2	196.25	101.42		4		202.84		
	41	PL.380x8	680	2	62.80	32.46		4		64.91		
	33	L100x100x10	130	12	14.90	23.24		24		46.49		
	48	PL.595x12	749	2	94.20	45.57		4	241854	91.13		
	49	PL.373x12	669	1	94.20	19.51		2	207122	39.02		
	50	PL.414x12	663	1	94.20	21.63		2	229645	43.27		
						1287.89	2			2575.77	**2575.77**	
PB-192	45	PL.668x12	7550	1	94.20	475.09		3		1425.26		
	46	PL.300x16	7550	1	125.60	284.48		3		853.45		
	47	PL.300x16	7550	1	125.60	284.48		3		853.45		
	40	PL.380x25	680	2	196.25	101.42		6		304.27		
	41	PL.380x8	680	2	62.80	32.46		6		97.37		
	33	L100x100x10	130	12	14.90	23.24		36		69.73		
	48	PL.595x12	749	2	94.20	45.57		6	241854	136.70		
	51	PL.373x12	669	2	94.20	39.02		6	207122	117.07		
						1285.76	3			3857.29	**3857.29**	

TOTAL WEIGHT 21270.04 KG. = 21.27 T.

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 300	2924.45	E350-SA/IS: 2062-2006 GR-A
2	ISMB 200	3741.42	E350-SA/IS: 2062-2006 GR-A
3	ISMB 125	1161.14	E350-SA/IS: 2062-2006 GR-A
4	NPB 600x220x107.56	1070.22	E350-SA/IS: 2062-2006 GR-A
5	NPB 450x190x77.57	2781.82	E350-SA/IS: 2062-2006 GR-A
6	L100x100x10	1439.49	E350-SA/IS: 2062-2006 GR-A
7	PL. 25 THK.	662.89	E350-SA/IS: 2062-2006 GR-A
8	PL. 16 THK.	3413.81	E350-SA/IS: 2062-2006 GR-A
9	PL. 12 THK.	3862.68	E350-SA/IS: 2062-2006 GR-A
10	PL. 8 THK.	212.12	E350-SA/IS: 2062-2006 GR-A
TOTAL WEIGHT =		21270.04	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	384	384	225.792
B1	M24	P	P.C. 8.8	90	850	850	362.95
					TOTAIL WIGHT=		588.742

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

BHEL भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430

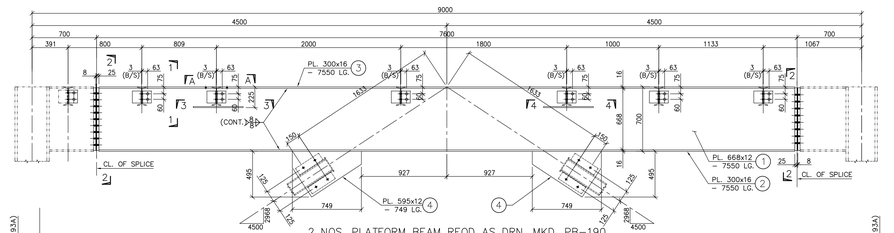
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

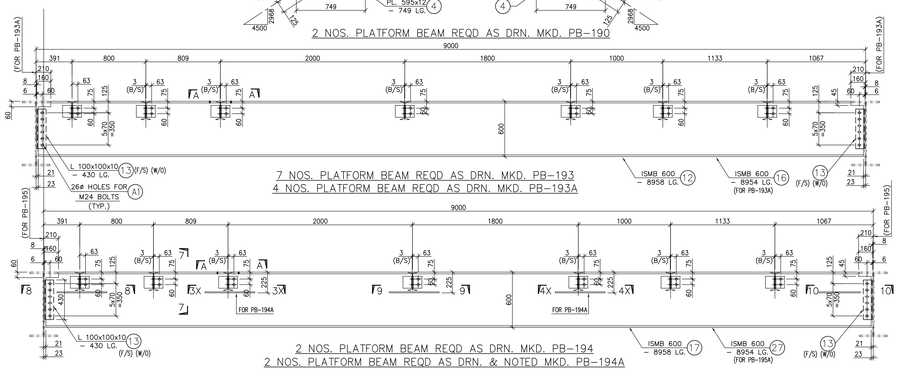
RESTRICTED USE

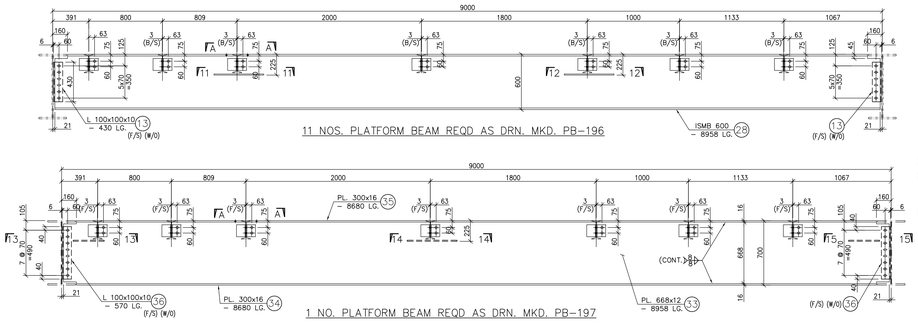
TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

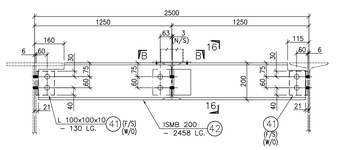
DRAWING NO. 0-96132-1-0010
REV. 00
SHEET NO. 01 NO OF SHEETS 01

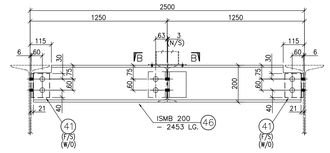
Sep Fri 27 09:31 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.

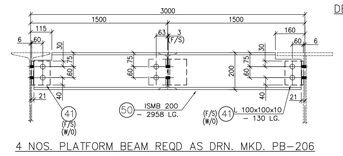


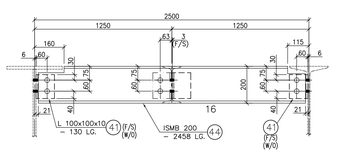


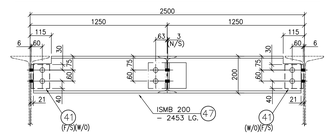


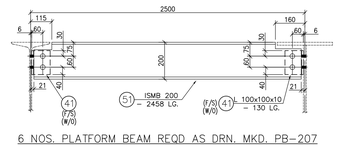


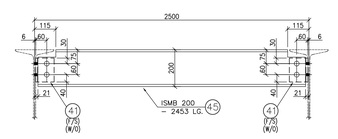


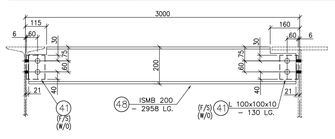


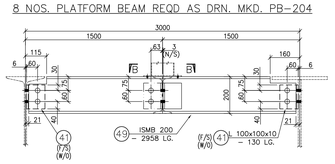


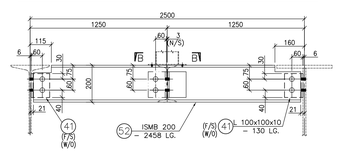


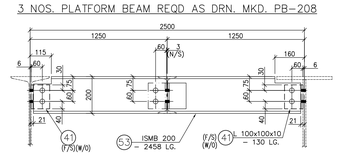


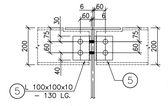


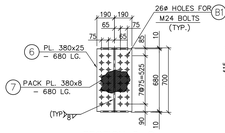


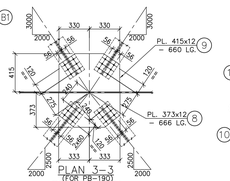


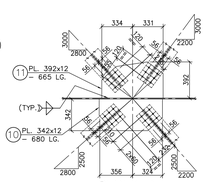


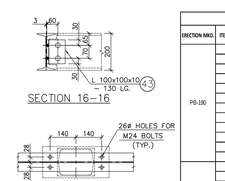


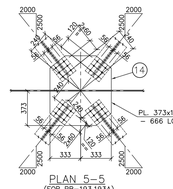


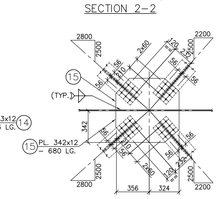


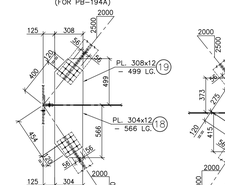


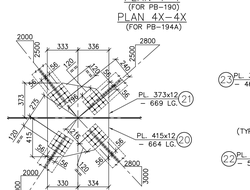


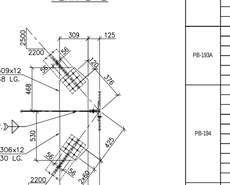


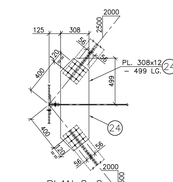


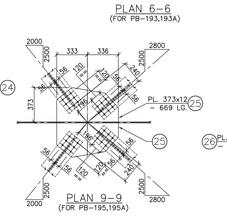


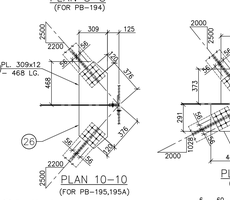


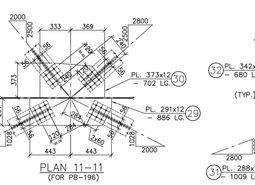


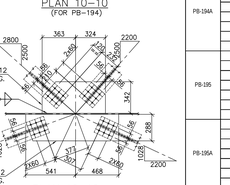


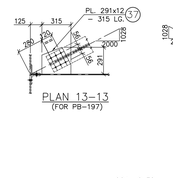


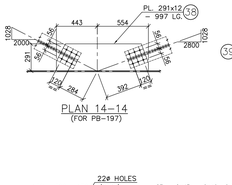


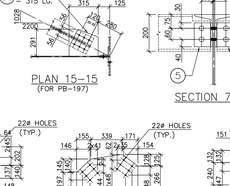


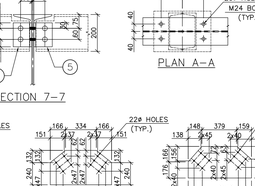


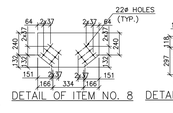


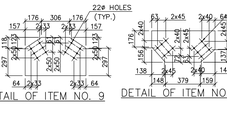


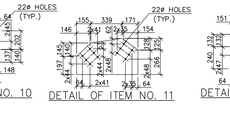


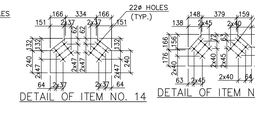


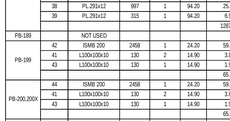


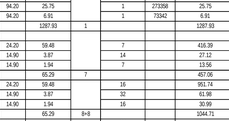


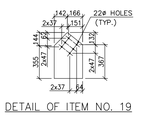


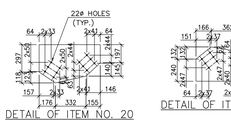


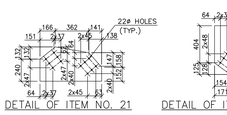


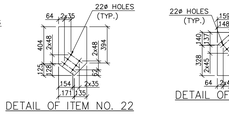


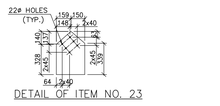


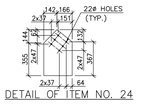


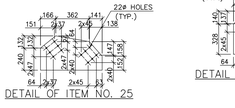


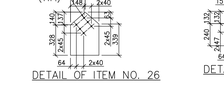


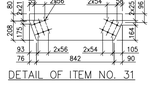


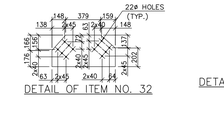


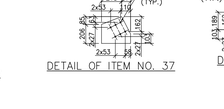












BILL OF MATERIALS										
ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (kgs)	WEIGHT FOR ONE ASSEMBLY (kgs)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (kgs)	EREC. MKD. WT.(kgs)	REMARKS
PB-190	1	PL.668x12	7550	1	94.20	475.09		2		950.18		
	2	PL.300x16	7550	1	125.60	284.48		2		568.97		
	3	PL.300x16	7550	1	125.60	284.48		2		568.97		
	4	PL.595x12	749	2	94.20	45.57		4	241854	91.13		
	5	L100x100x10	130	10	14.90	19.37		20		38.74		
	6	PL.380x25	680	2	196.25	101.42		4		202.84		
	7	PL.380x8	680	2	62.80	32.46		4		64.91		
	8	PL.373x12	666	1	94.20	21.27		2	225746	42.53		
	9	PL.415x12	660	1	94.20	23.80		2	252705	47.61		
	10	PL.342x12	680	1	94.20	19.92		2	211452	39.84		
	11	PL.392x12	665	1	94.20	20.94		2	222316	41.88		
						1328.80	2			2657.60	**2657.60**	
PB-193	12	ISMB 600	8958	1	123.00	1101.83		7		7712.81		
	13	L100x100x10	430	2	14.90	12.81		14		89.70		
	5	L100x100x10	130	14	14.90	27.12		98		189.83		
	14	PL.373x12	666	2	94.20	42.58		14	225982	298.03		
	15	PL.342x12	680	2	94.20	39.84		14	211452	278.86		
						1224.18	7			8569.25	**8569.25**	
PB-193A	16	ISMB 600	8954	1	123.00	1101.34		4		4405.37		
	13	L100x100x10	430	2	14.90	12.81		8		51.26		
	5	L100x100x10	130	14	14.90	27.12		56		108.47		
	14	PL.373x12	666	2	94.20	42.58		8	225982	170.30		
	15	PL.342x12	680	2	94.20	39.84		8	211452	159.35		
						1223.69	4			4894.75	**4894.75**	
PB-194	17	ISMB 600	8958	1	123.00	1101.83		2		2203.67		
	13	L100x100x10	430	2	14.90	12.81		4		25.63		
	5	L100x100x10	130	14	14.90	27.12		28		54.24		
	18	PL.304x12	566	1	94.20	14.30		2	151752	28.59		
	19	PL.308x12	499	1	94.20	12.49		2	132557	24.97		
	20	PL.415x12	664	1	94.20	21.68		2	230140	43.35		
	21	PL.373x12	669	1	94.20	19.51		2	207122	39.02		
	22	PL.306x12	530	1	94.20	13.34		2	141596	26.68		
	23	PL.309x12	468	1	94.20	11.65		2	123719	23.31		
						1234.73	2			2469.46	**2469.46**	
PB-194A	17	ISMB 600	8958	1	123.00	1101.83		2		2203.67		
	13	L100x100x10	430	2	14.90	12.81		4		25.63		
	5	L100x100x10	130	14	14.90	27.12		28		54.24		
	8	PL.373x12	666	1	94.20	21.27		2	225746	42.53		
	9	PL.415x12	660	1	94.20	23.80		2	252705	47.61		
	10	PL.342x12	680	1	94.20	19.92		2	211452	39.84		
	11	PL.392x12	665	1	94.20	20.94		2	222316	41.88		
						1227.70	2			2455.39	**2455.39**	
PB-195	17	ISMB 600	8958	1	123.00	1101.83		2		2203.67		
	13	L100x100x10	430	2	14.90	12.81		4		25.63		
	5	L100x100x10	130	14	14.90	27.12		28		54.24		
	24	PL.308x12	499	2	94.20	24.93		4	132344	49.87		
	25	PL.373x12	669	2	94.20	39.02		4	207122	78.04		
	26	PL.309x12	468	2	94.20	23.31		4	123739	46.62		
						1229.03	2			2458.07	**2458.07**	
PB-195A	27	ISMB 600	8954	1	123.00	1101.34		3		3304.03		
	13	L100x100x10	430	2	14.90	12.81		6		38.44		
	5	L100x100x10	130	14	14.90	27.12		42		81.35		
	24	PL.308x12	499	2	94.20	24.93		6	132344	74.80		
	25	PL.373x12	669	2	94.20	39.02		6	207122	117.07		
	26	PL.309x12	468	2	94.20	23.31		6	123739	69.94		
						1228.54	3			3685.63	**3685.63**	
PB-196	28	ISMB 600	8958	1	123.00	1101.83		11		12120.17		
	13	L100x100x10	430	2	14.90	12.81		22		140.95		
	5	L100x100x10	130	14	14.90	27.12		154		298.30		
	29	PL.291x12	886	1	94.20	14.30		11	151752	157.25		
	30	PL.373x12	702	1	94.20	12.49		11	132557	137.36		
	31	PL.288x12	1009	1	94.20	21.68		11	230140	238.47		
	32	PL.342x12	680	1	94.20	19.51		11	207122	214.60		
						1209.74	11			13307.12	**13307.12**	
PB-197	33	PL.668x12	8958	1	94.20	563.69		1		563.69		
	34	PL.300x16	8680	1	125.60	327.06		1		327.06		
	35	PL.300x16	8660	1	125.60	327.06		1		327.06		
	36	L100x100x10	570	2	14.90	16.99		2		16.99		
	5	L100x100x10	130	7	14.90	13.56		7		13.56		
	37	PL.291x12	315	1	94.20	6.91		1	73342	6.91		
	38	PL.291x12	997	1	94.20	25.75		1	273358	25.75		
	39	PL.291x12	315	1	94.20	6.91		1	73342	6.91		
						1287.93	1			1287.93	**1287.93**	
PB-199		NOT USED										
	42	ISMB 200	2458	1	24.20	59.48		7		416.39		
	41	L100x100x10	130	2	14.90	3.87		14		27.12		
	43	L100x100x10	130	1	14.90	1.94		7		13.56		
						65.29	7			457.06	**457.06**	
PB-200,200X	44	ISMB 200	2458	1	24.20	59.48		16		951.74		
	41	L100x100x10	130	2	14.90	3.87		32		61.98		
	43	L100x100x10	130	1	14.90	1.94		16		30.99		
						65.29	8+8			1044.71	**1044.71**	
PB-201	45	ISMB 200	2453	1	24.20	59.36		28		1662.15		
	41	L100x100x10	130	2	14.90	3.87		56		108.47		
						63.24	28			1770.62	**1770.62**	
PB-202	46	ISMB 200	2453	1	24.20	59.36		14		831.08		
	41	L100x100x10	130	2	14.90	3.87		28		54.24		
	43	L100x100x10	130	1	14.90	1.94		14		27.12		
						65.17	14			912.43	**912.43**	
PB-203,203X	47	ISMB 200	2453	1	24.20	59.36		30		1780.88		
	41	L100x100x10	130	2	14.90	3.87		60		116.22		
	43	L100x100x10	130	1	14.90	1.94		30		58.11		
						65.17	15+15			1955.21	**1955.21**	
PB-204	48	ISMB 200	2958	1	24.20	71.58		8		572.67		
	41	L100x100x10	130	2	14.90	3.87		16		30.99		
						75.46	8			603.66	**603.66**	
PB-205	49	ISMB 200	2958	1	24.20	71.58		4		286.33		
	41	L100x100x10	130	2	14.90	3.87		8		15.50		
	43	L100x100x10	130	1	14.90	1.94		4		7.75		
						77.39	4			309.58	**309.58**	
PB-206,206X	50	ISMB 200	2958	1	24.20	71.58		8		572.67		
	41	L100x100x10	130	2	14.90	3.87		16		30.99		
	43	L100x100x10	130	1	14.90	1.94		8		15.50		
						77.39	4+4			619.16	**619.16**	
PB-207	51	ISMB 200	2458	1	24.20	59.48		6		356.90		
	41	L100x100x10	130	2	14.90	3.87		12		23.24		
						63.36	6			380.15	**380.15**	
PB-208	52	ISMB 200	2458	1	24.20	59.48		3		178.45		
	41	L100x100x10	130	2	14.90	3.87		6		11.62		
	43	L100x100x10	130	1	14.90	1.94		3		5.81		
						65.29	3			195.88	**195.88**	
PB-209,209X	53	ISMB 200	2458	1	24.20	59.48		6		356.90		
	41	L100x100x10	130	2	14.90	3.87		12		23.24		
	43	L100x100x10	130	1	14.90	1.94		6		11.62		
						65.29	3+3			391.77	**391.77**	
TOTAL WEIGHT 50425.42 KG. = 50.425 T.												

ABSTRACT			
SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 600	34153.41	E350-SA/IS: 2062-2006 GR-A
2	ISMB 200	7966.16	E350-SA/IS: 2062-2006 GR-A
3	L100x100x10	1981.25	E350-SA/IS: 2062-2006 GR-A
4	PL. 25 THK.	202.84	E350-SA/IS: 2062-2006 GR-A
5	PL. 16 THK.	1792.06	E350-SA/IS: 2062-2006 GR-A
6	PL. 12 THK.	4264.79	E350-SA/IS: 2062-2006 GR-A
7	PL. 8 THK.	64.91	E350-SA/IS: 2062-2006 GR-A
TOTAL WEIGHT =		50425.42	

BOLT SCHEDULE							
ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	128	128	75.264
B1	M24	P	P.C. 8.8	90	1424	1424	608.048
					TOTAIL WIGHT=		683.312

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	4430	NTS				

TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0011 REV. 00

SHEET NO. 01 NO OF SHEETS 01

RESTRICTED USE

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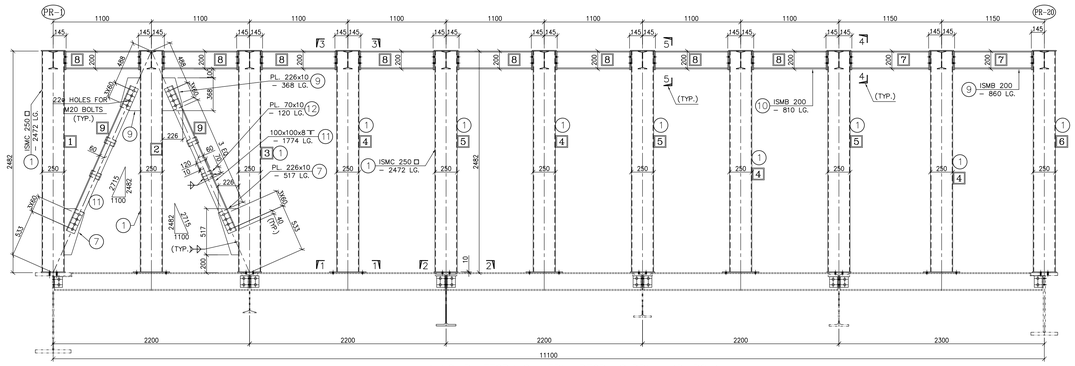
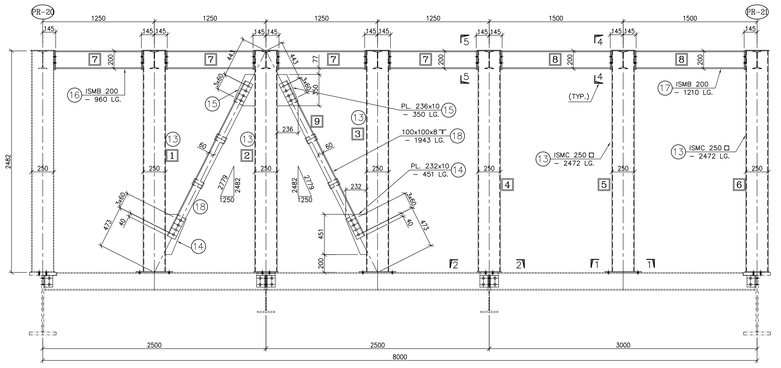


1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-1
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-1X



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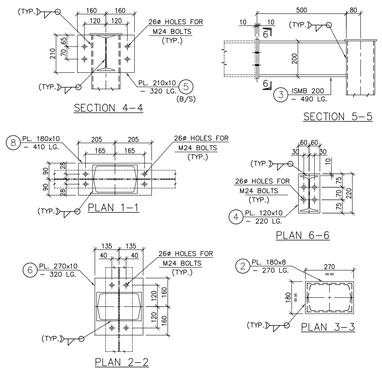
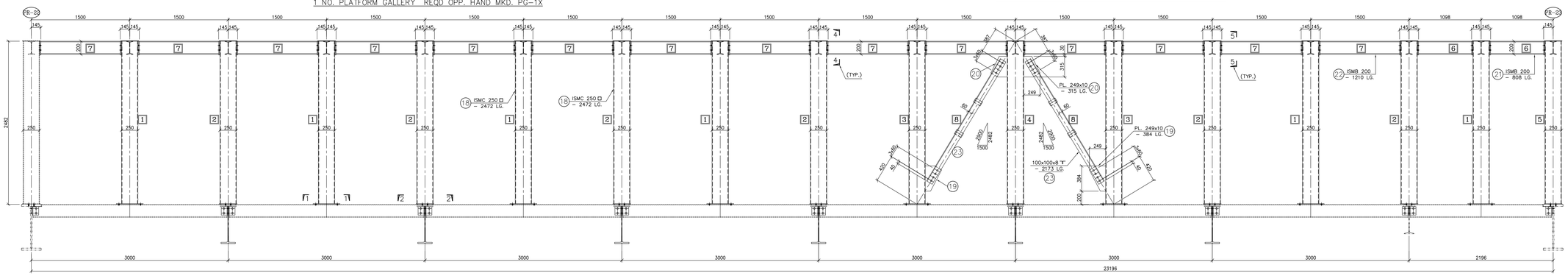
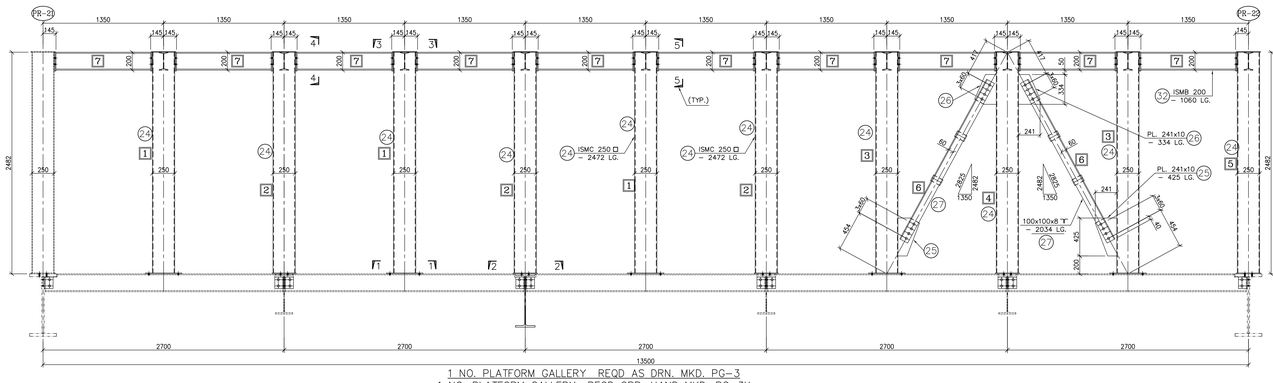
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-2X

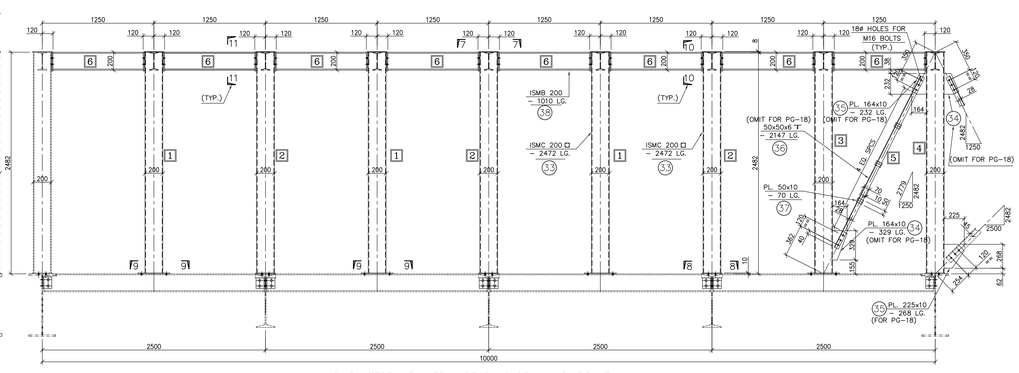




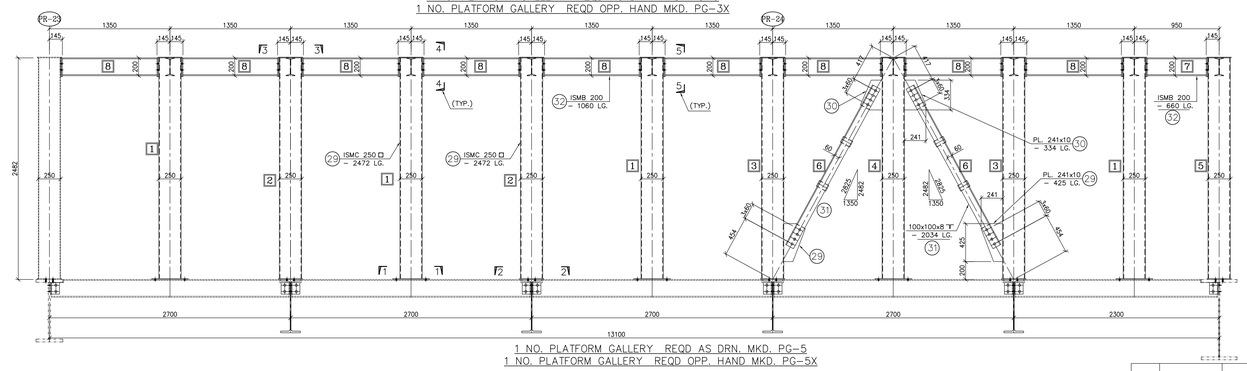
1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-4
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-4X



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-3
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-3X



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-17
1 NO. PLATFORM GALLERY REQD AS DRN. & NOTED MKD. PG-18



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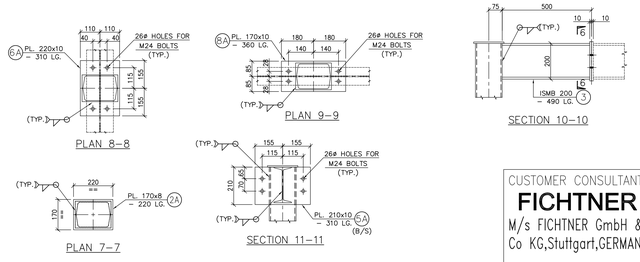
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-5X



NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

BHEL भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

RESTRICTED USE

TITLE: FLY ASH PIPE RACK U-V ROW
DETAIL OF PLATFROM GALLERY

DRAWING NO. 0-96132-1-0012
REV. 00
SHEET NO. 01 NO OF SHEETS 02

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BILL OF MATERIALS PART - I

ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-1 & 1X	1	1	ISMC 250	2472	2	30.80	151.29		44		3328.30		
		2	PL 180x8	270	1	62.80	3.05		22		67.15		
		3	ISMB 200	490	1	25.40	12.45		22		273.81		
		4	PL 120x10	220	1	78.50	2.07		22		45.59		
		5	PL 210x10	320	1	78.50	5.28		2		10.55		
		6	PL 270x10	320	1	78.50	6.78		2		13.56		
		7	PL 226x10	517	1	78.50	9.17		2		18.34		
							190.09	1+1				**380.17**	
	2		MATERIAL SAME AS MKD PG-1 BOX 1 OMIT ITEM NO 5,6,7				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
		9	PL 226x10	368	2	78.50	13.06		4		26.11		
							198.26	1+1				**396.52**	
	3		MATERIAL SAME AS MKD PG-1 BOX 1 OMIT ITEM NO 5,6,7				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		6	PL 270x10	320	1	78.50	6.78		2		13.56		
		7	PL 226x10	517	1	78.50	9.17		2		18.34		
							195.36	1+1				**390.72**	
	4		MATERIAL SAME AS MKD PG-1 BOX 1 OMIT ITEM NO 5,6,7				168.86						
		5	PL 210x10	320	2	78.50	10.55		16		84.40		
		8	PL 180x10	410	1	78.50	5.79		8		46.35		
							185.20	4+4				**1481.60**	
	5		MATERIAL SAME AS MKD PG-1 BOX 1 OMIT ITEM NO 5,6,7				168.86						
		5	PL 210x10	320	2	78.50	10.55		12		63.30		
		6	PL 270x10	320	1	78.50	6.78		6		40.69		
							186.19	3+3				**1117.14**	
	6		MATERIAL SAME AS MKD PG-1 BOX 1 OMIT ITEM NO 5,6,7				168.86						
		5	PL 210x10	320	1	78.50	5.28		2		10.55		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
							179.93	1+1				**359.85**	
	7	9	ISMB 200	860	1	25.40	21.84		4		87.38		
		5	PL 210x10	320	2	78.50	10.55		8		42.20		
							32.39	2+2				**129.58**	
	8	10	ISMB 200	810	1	25.40	20.57		16		329.18		
		5	PL 210x10	320	2	78.50	10.55		32		168.81		
							31.12	8+8				**497.99**	
	9	11	L 100x100x8	1774	2	12.10	42.93		8		171.72		
		12	PL.70x10	120	2	78.50	1.32		8		5.28		
							44.25	2+2				**177.00**	
PG-2 & 2X	1	13	ISMC 250	2472	2	30.60	151.29		24		1815.44		
		2	PL 180x8	270	1	62.80	3.05		12		36.62		
		3	ISMB 200	490	1	25.40	12.45		12		149.35		
		4	PL 120x10	220	1	78.50	2.07		12		24.87		
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
		14	PL 232x10	451	1	78.50	8.21		2		16.43		
							193.41	1+1				**386.83**	
	2		MATERIAL SAME AS MKD PG-2 BOX 1 OMIT ITEM NO 5,8,14				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		6	PL 270x10	320	1	78.50	6.78		2		13.56		
		15	PL 236x10	350	2	78.50	12.97		4		25.94		
							199.16	1+1				**398.32**	
	3		MATERIAL SAME AS MKD PG-2 BOX 1 OMIT ITEM NO 5,8,14				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
		14	PL 236x10	350	1	78.50	6.48		2		12.97		
							191.68	1+1				**383.37**	
	4		MATERIAL SAME AS MKD PG-2 BOX 1 OMIT ITEM NO 5,8,14				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		6	PL 270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	5		MATERIAL SAME AS MKD PG-2 BOX 1 OMIT ITEM NO 5,8,14				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
							185.20	1+1				**370.40**	
	6		MATERIAL SAME AS MKD PG-2 BOX 1 OMIT ITEM NO 5,8,14				168.86						
		5	PL 210x10	320	1	78.50	5.28		2		10.55		
		6	PL 270x10	320	1	78.50	6.78		2		13.56		
							180.91	1+1				**361.83**	
	7	16	ISMB 200	960	1	25.40	24.38		4		195.07		
		5	PL 210x10	320	2	78.50	10.55		8		84.40		
							34.93	4+4				**279.48**	
	8	17	ISMB 200	1210	1	25.40	30.73		4		122.94		
		5	PL 210x10	320	2	78.50	10.55		8		42.20		
							41.28	2+2				**165.14**	
	9	18	L 100x100x8	1943	2	12.10	47.02		8		188.08		
		12	PL.70x10	120	2	78.50	1.32		8		5.28		
							48.34	2+2				**193.36**	
PG-4 & 4X	1	18	ISMC 250	2472	2	30.60	151.29		64		4841.16		
		2	PL 180x8	270	1	62.80	3.05		32		97.67		
		3	ISMB 200	490	1	25.40	12.45		32		398.27		
		4	PL 120x10	220	1	78.50	2.07		32		66.32		
		5	PL 210x10	320	2	78.50	10.55		24		126.60		
		8	PL 180x10	410	1	78.50	5.79		12		69.52		
							185.20	6+6				**2222.41**	
	2		MATERIAL SAME AS MKD PG-4 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL 210x10	320	2	78.50	10.55		24		126.60		
		6	PL 270x10	320	1	78.50	6.78		12		81.39		
							186.19	6+6				**2234.28**	
	3		MATERIAL SAME AS MKD PG-4 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL 210x10	320	2	78.50	10.55		8		42.20		
		6	PL 270x10	320	1	78.50	6.78		4		27.13		
		19	PL 249x10	384	1	78.50	7.51		4		30.02		
							193.70	2+2				**774.78**	
	4		MATERIAL SAME AS MKD PG-4 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
		20	PL 249x10	315	1	78.50	6.16		2		12.31		
							191.36	1+1				**382.72**	
	5		MATERIAL SAME AS MKD PG-4 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL 210x10	320	2	78.50	10.55		4		21.10		
		8	PL 180x10	410	1	78.50	5.79		2		11.59		
							185.20	1+1				**370.40**	
	6	21	ISMB 200	808	1	25.40	20.52		4		82.09		
		5	PL 210x10	320	2	78.50	10.55		8		42.20		
							31.07	2+2				**124.29**	
	7	22	ISMB 200	1210	1	25.40	30.73		28		860.55		
		5	PL 210x10	320	2	78.50	10.55		56		295.41		
							41.28	14+14				**1155.96**	
	8	23	L 100x100x8	2173	2	12.10	52.59		8		210.35		
		12	PL.70x10	120	2	78.50	1.32		8		5.28		
							53.91	2+2				**215.62**	

BILL OF MATERIALS PART - II

ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-3 & 3X	1	24	ISMC 250	2472	2	30.60	151.29		40		3025.73		
		2	PL.180x8	270	1	62.80	3.05		20		61.04		
		3	ISMB 200	490	1	25.40	12.45		20		248.92		
		4	PL.120x10	220	1	78.50	2.07		20		41.45		
		5	PL.210x10	320	2	78.50	10.55		12		63.30		
		8	PL.180x10	410	1	78.50	5.79		6		34.76		
							185.20	3+3				**1111.20**	
	2		MATERIAL SAME AS MKD PG-3 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL.210x10	320	2	78.50	10.55		4		63.30		
		6	PL.270x10	320	1	78.50	6.78		2		40.69		
							186.19	3+3				**1117.14**	
	3		MATERIAL SAME AS MKD PG-3 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL.210x10	320	2	78.50	10.55		8		42.20		
		8	PL.180x10	410	1	78.50	5.79		4		23.17		
		25	PL.241x10	425	1	78.50	8.04		4		32.16		
							193.24	2+2				**772.96**	
	4		MATERIAL SAME AS MKD PG-3 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL.210x10	320	2	78.50	10.55		4		21.10		
		6	PL.270x10	320	1	78.50	6.78		2		13.56		
		26	PL.241x10	334	1	78.50	6.32		2		12.64		
							192.51	1+1				**385.02**	
	5		MATERIAL SAME AS MKD PG-3 BOX 1 OMIT ITEM NO 5,8				168.86						
		5	PL.210x10	320	1	78.50	5.28		2		10.55		
		6	PL.270x10	320	1	78.50	6.78		2		13.56		
							180.91	1+1				**361.83**	
	6	27	L 100x100x8	2034	2	12.10	49.22		8		196.89		
		12	PL.70x10	120	2	78.50	1.32		8		5.28		
							50.54	2+2				**202.17**	
	7	28	ISMB 200	1060	1	25.40	26.92		20		538.48		
		5	PL.210x10	320	2	78.50	10.55		40		211.01		
							37.47	10+10				**749.49**	
PG-5 & 5X	1	29	ISMC 250	2472	2	30.60	151.29		44		3328.30		
		2	PL.180x8	270	1	62.80	3.05		22		67.15		
		3	ISMB 200	490	1	25.40	12.45		22		273.81		
		4	PL.120x10	220	1	78.50	2.07		22		45.59		
		5	PL.210x10	320	2	78.50	10.55		16		84.40		
		8	PL.180x10	410	1	78.50	5.79		8		46.35		
							185.20	4+4				**1481.60**	
	2		MATERIAL SAME AS MKD PG-5 BOX 1 OMIT ITEM NO 5,6				168.86						
		5	PL.210x10	320	2	78.50	10.55		12		63.30		
		6	PL.270x10	320	1	78.50	6.78		6		40.69		
							186.19	3+3				**1117.14**	
	3		MATERIAL SAME AS MKD PG-5 BOX 1 OMIT ITEM NO 5,6				168.86						
		5	PL.210x10	320	2	78.50	10.55		8		42.20		
		6	PL.270x10	320	1	78.50	6.78		4		27.13		
		29	PL.241x10	215	1	78.50	4.07		4		16.27		
							190.26	2+2				**761.03**	
	4		MATERIAL SAME AS MKD PG-5 BOX 1 OMIT ITEM NO 5,6				168.86						
		5	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.180x10	410	1	78.50	5.79		2		11.59		
		30	PL.241x10	334	2	78.50	12.64		4		25.28		
							197.84	1+1				**395.68**	
	5		MATERIAL SAME AS MKD PG-5 BOX 1 OMIT ITEM NO 5,6				168.86						
		5	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.180x10	410	1	78.50	5.79		2		11.59		
							185.20	1+1				**370.40**	
	6	31	L 100x100x8	2034	2	12.10	49.22		8		196.89		
		12	PL.70x10	120	2	78.50	1.32		8		5.28		
							50.54	2+2				**202.17**	
	7	32	ISMB 200	660	1	25.40	16.76		20		335.28		
		5	PL.210x10	320	2	78.50	10.55		40		211.01		
							27.31	10+10				**546.29**	
	8	32	ISMB 200	1060	1	25.40	26.92		20		538.48		
		5	PL.210x10	320	2	78.50	10.55		40		211.01		
							37.47	10+10				**749.49**	
PG-17	1	33	ISMC 200	2472	2	22.30	110.25		16		882.01		
		2A	PL.170x8	220	1	62.80	2.35		8		18.79		
		3	ISMB 200	490	1	25.40	12.45		8		99.57		
		4	PL.120x10	220	1	78.50	2.07		8		16.58		
		5A	PL.210x10	310	2	78.50	10.22		6		30.66		
		8A	PL.170x10	360	1	78.50	4.80		3		14.41		
							142.14	3				**426.43**	
	2		MATERIAL SAME AS MKD PG-17 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		6		30.66		
		6A	PL.270x10	320	1	78.50	6.78		3		20.35		
							144.12	3				**432.36**	
	3		MATERIAL SAME AS MKD PG-17 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		2		10.22		
		8A	PL.170x10	360	1	78.50	4.80		1		4.80		
		34	PL.164x10	329	1	78.50	4.24		1		4.24		
							146.38	1				**146.38**	
	4		MATERIAL SAME AS MKD PG-17 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		2		10.22		
		6A	PL.270x10	320	1	78.50	6.78		1		6.78		
		34	PL.164x10	232	2	78.50	5.97		2		5.97		
		35	PL.225x10	268	1	78.50	4.73		1		4.73		
							154.83	1				**154.83**	
	5	36	L 50x50x6	2147	2	4.50	19.32		2		19.32		
		37	PL.50x10	70	3	78.50	0.82		3		0.82		
							20.15	1				**20.15**	
	6	38	ISMB 200	1010	1	25.40	25.65		8		205.23		
		5	PL.210x10	320	2	78.50	10.55		16		84.40		
							36.20	8				**289.64**	
PG-18	1	33	ISMC 200	2472	2	22.30	110.25		16		882.01		
		2A	PL.170x8	220	1	62.80	2.35		8		18.79		
		3	ISMB 200	490	1	25.40	12.45		8		99.57		
		4	PL.120x10	220	1	78.50	2.07		8		16.58		
		5A	PL.210x10	310	2	78.50	10.22		6		30.66		
		8A	PL.170x10	360	1	78.50	4.80		3		14.41		
							142.14	3				**426.43**	
	2		MATERIAL SAME AS MKD PG-18 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		6		30.66		
		6A	PL.270x10	320	1	78.50	6.78		3		20.35		
							144.12	3				**432.36**	
	3		MATERIAL SAME AS MKD PG-18 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		2		10.22		
		8A	PL.170x10	360	1	78.50	4.80		1		4.80		
							142.14	1				**142.14**	
	4		MATERIAL SAME AS MKD PG-18 BOX 1 OMIT ITEM NO 5A,8A				127.12						
		5A	PL.210x10	310	2	78.50	10.22		2		10.22		
		6A	PL.270x10	320	1	78.50	6.78		1		6.78		
							144.12	1				**144.12**	
	6	38	ISMB 200	1010	1	25.40	25.65		8		205.23		
		5	PL.210x10	320	2	78.50	10.55		16		84.40		
							36.20	8				**289.64**	

TOTAL WEIGHT 28550.2 KG. = 28.55 T.

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMC 200	5043.22	E350-SA/IS: 2062-2006 GR-A
2	ISMC 150	16338.93	E350-SA/IS: 2062-2006 GR-A
3	L 90x90x8	1764.02	E350-SA/IS: 2062-2006 GR-A
4	L 75x75x6	963.93	E350-SA/IS: 2062-2006 GR-A
5	PL. 32 THK.	19.32	E350-SA/IS: 2062-2006 GR-A
6	PL. 10 THK.	4053.57	E350-SA/IS: 2062-2006 GR-A
7	PL. 8 THK.	367.20	E350-SA/IS: 2062-2006 GR-A
TOTAL WEIGHT=		28550.20	

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	50	2576	2576	803.712
B1	M20	P	P.C. 8.8	60	320	320	59.52
C1	M16	P	P.C. 8.8	50	12	32	1.272
					TOTAIL WIGHT=		864.504

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REF DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	4430	NTS				

RESTRICTED USE

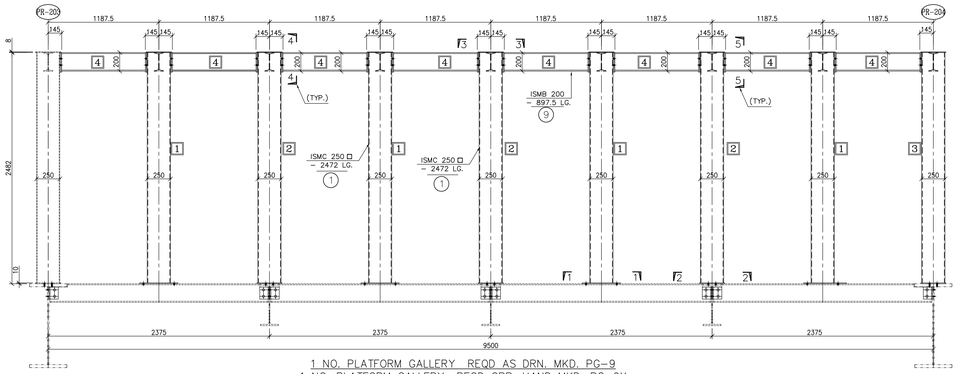
TITLE: FLY ASH PIPE RACK U-V ROW
DETAIL OF PLATFROM GALLERY

DRAWING NO. 0-96132-1-0012 REV. 00

SHEET NO. 02 NO OF SHEETS 02

Sep Fri 27 16:42 2019

This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



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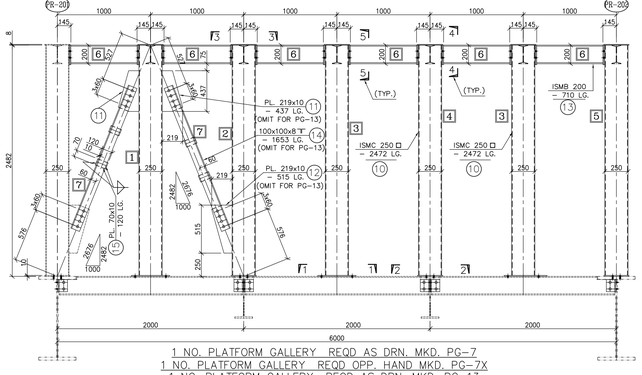
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-9X



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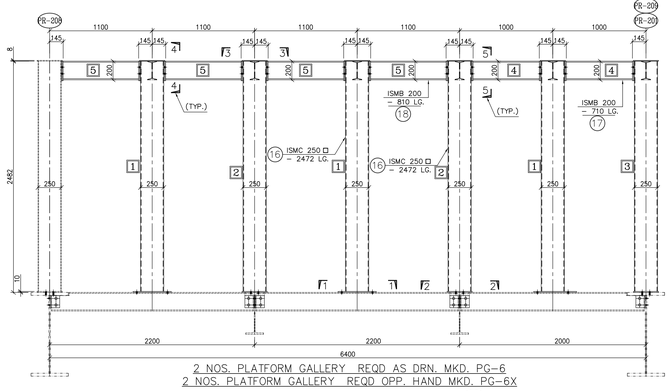
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-7X
1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-13
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-13X



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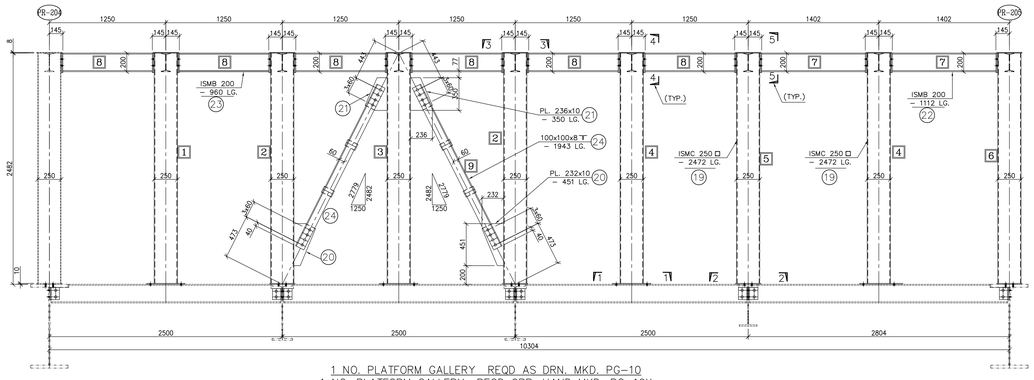
2 NOS. PLATFORM GALLERY REQD OPP. HAND MKD. PG-6X



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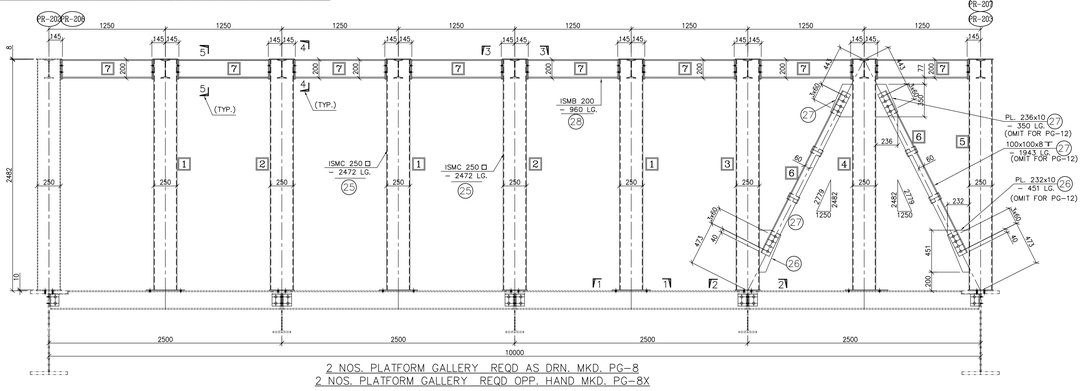
1 NO. PLATFORM GALLERY REQD OPP. HAND MKD. PG-10X



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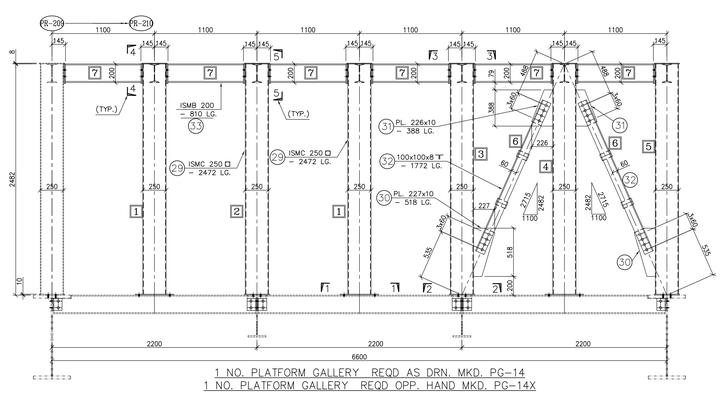
2 NOS. PLATFORM GALLERY REQD OPP. HAND MKD. PG-8X
2 NOS. PLATFORM GALLERY REQD AS DRN. MKD. PG-12
2 NOS. PLATFORM GALLERY REQD OPP. HAND MKD. PG-12X



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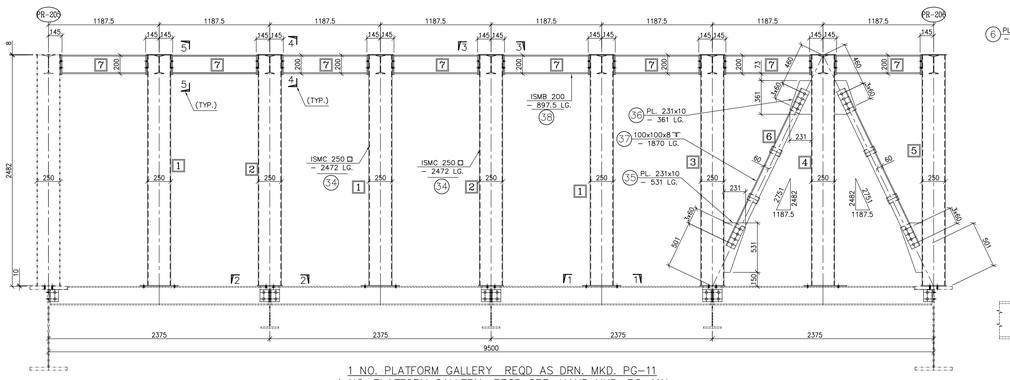

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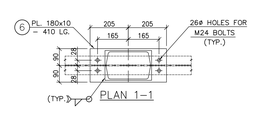
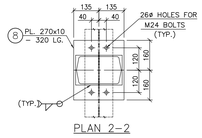


PLAN 1-1



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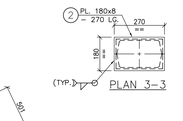

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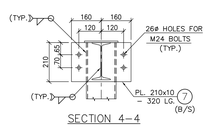

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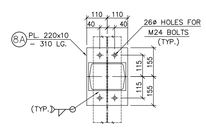
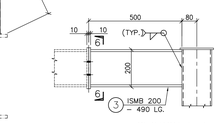


PLAN 8-8



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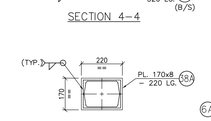
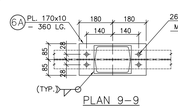
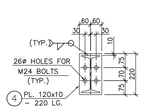


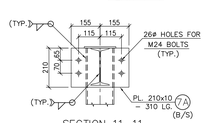
PLAN 7-7



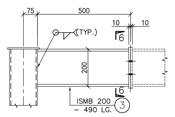
PLAN 9-9



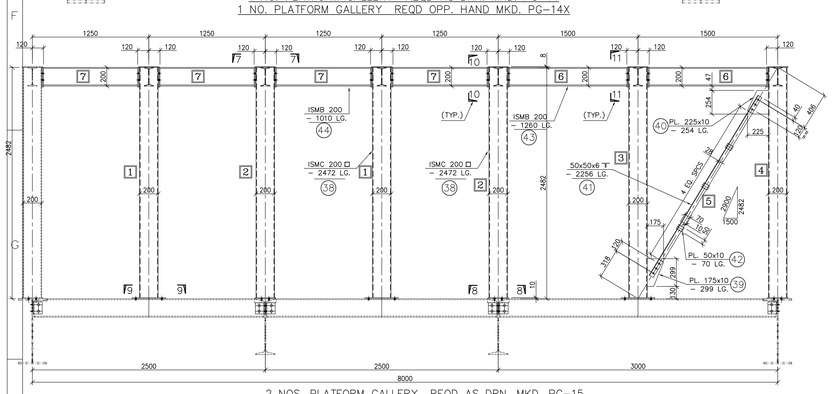
PLAN 6-6



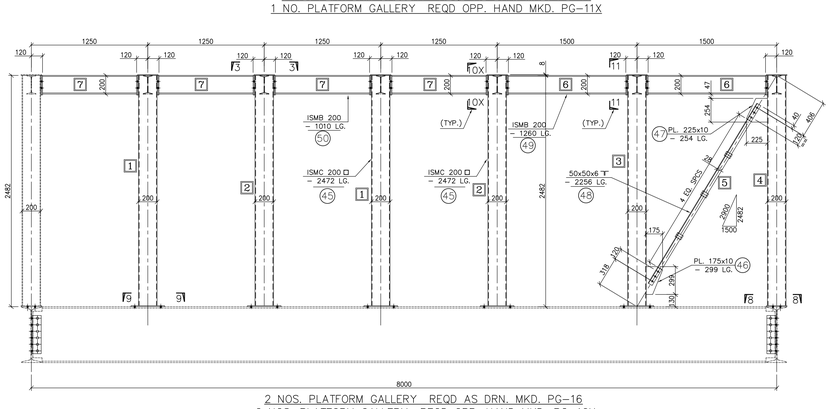
SECTION 11-11



SECTION 10-10
SECTION 10X-10X



2 NOS. PLATFORM GALLERY REQD AS DRN. MKD. PG-15
2 NOS. PLATFORM GALLERY REQD OPP. HAND MKD. PG-15X



2 NOS. PLATFORM GALLERY REQD AS DRN. MKD. PG-16
2 NOS. PLATFORM GALLERY REQD OPP. HAND MKD. PG-16X

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT.	OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE	4430	NTS				

RESTRICTED USE

TITLE: FLY ASH PIPE RACK U-V ROW
DETAIL OF PLATFROM GALLERY

DRAWING NO. 0-96132-1-0013 REV. 00

SHEET NO. 01 NO OF SHEETS 02

Sep Fri 27 16:43 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.

BILL OF MATERIALS PART-I

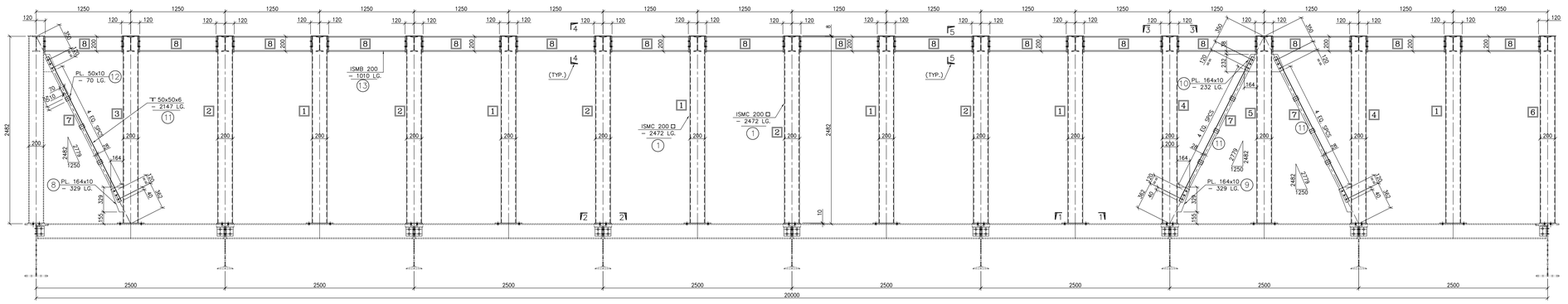
ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-9 & 9X	1	1	ISMC 250	2472	2	30.60	151.29		32		2420.58		
		2	PL.180x8	270	1	62.80	3.05		16		48.83		
		3	ISMB 200	490	1	25.40	12.45		16		199.14		
		4	PL.120x10	220	1	78.50	2.07		16		33.16		
		5	NOT USED										
		6	PL.180x10	410	1	78.50	5.79		8		46.35		
		7	PL.210x10	320	2	78.50	10.55		16		84.40		
							185.20	4+4				**1481.60**	
	2		MATERIAL SAME AS PG-9 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		12		63.30		
		8	PL.270x10	320	1	78.50	6.78		6		40.69		
							186.19	3+3				**1117.14**	
	3		MATERIAL SAME AS PG-9 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		2		10.55		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							180.91	1+1				**361.83**	
	4	9	ISMB 200	897.5	1	25.40	22.80		2		364.74		
		7	PL.210x10	320	2	78.50	10.55		4		168.81		
							33.35	8+8				**533.55**	
PG-7 & 7X	1	10	ISMC 250	2472	2	30.60	151.29		24		1815.44		
		2	PL.180x8	270	1	62.80	3.05		12		36.62		
		3	ISMB 200	490	1	25.40	12.45		12		149.35		
		4	PL.120x10	220	1	78.50	2.07		12		24.87		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		11	PL.219x10	437	2	78.50	15.03		4		30.05		
							200.23	1+1				**400.45**	
	2		MATERIAL SAME AS PG-7 BOX MKD 1 OMIT ITEM NO. 6,7,11				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
		12	PL.219x10	515	1	78.50	8.85		2		17.71		
							195.04	1+1				**390.09**	
	3		MATERIAL SAME AS PG-7 BOX MKD 1 OMIT ITEM NO. 6,7,11				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		6	PL.180x10	410	1	78.50	5.79		4		23.17		
							185.20	2+2				**740.80**	
	4		MATERIAL SAME AS PG-7 BOX MKD 1 OMIT ITEM NO. 6,7,11				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	5		MATERIAL SAME AS PG-7 BOX MKD 1 OMIT ITEM NO. 6,7,11				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	2	78.50	13.56		4		27.13		
							192.97	1+1				**385.94**	
	6	13	ISMB 200	710	1	25.40	18.03		12		216.41		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							28.58	6+6				**343.01**	
	7	14	L 100x100x8	1653	2	12.10	40.00		8		160.01		
		15	PL.70x10	120	2	78.50	1.32		8		5.28		
							41.32	2+2				**165.29**	
PG-13 & 13X	1	10	ISMC 250	2472	2	30.60	151.29		20		1512.86		
		2	PL.180x8	270	1	62.80	3.05		10		30.52		
		3	ISMB 200	490	1	25.40	12.45		10		124.46		
		4	PL.120x10	220	1	78.50	2.07		10		20.72		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
							185.20	1+1				**370.40**	
	2		MATERIAL SAME AS PG-13 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	3		MATERIAL SAME AS PG-13 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
							185.20	1+1				**370.40**	
	4		MATERIAL SAME AS PG-13 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	5		MATERIAL SAME AS PG-13 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	2	78.50	13.56		4		27.13		
							192.97	1+1				**385.94**	
	6	13	ISMB 200	710	1	25.40	18.03		12		216.41		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							28.58	6+6				**343.01**	
PG-6 & 6X	1	16	ISMC 250	2472	2	30.60	151.29		48		3630.87		
		2	PL.180x8	270	1	62.80	3.05		24		73.25		
		3	ISMB 200	490	1	25.40	12.45		24		298.70		
		4	PL.120x10	220	1	78.50	2.07		24		49.74		
		6	PL.180x10	410	1	78.50	5.79		12		69.52		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							185.20	6+6				**2222.41**	
	2		MATERIAL SAME AS PG-6 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		16		84.40		
		8	PL.270x10	320	1	78.50	6.78		8		54.26		
							186.19	4+4				**1489.52**	
	3		MATERIAL SAME AS PG-6 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
							180.91	2+2				**723.66**	
	4	17	ISMB 200	710	1	25.40	18.03		8		144.27		
		7	PL.210x10	320	2	78.50	10.55		16		84.40		
							28.58	4+4				**228.68**	
	5	18	ISMB 200	810	1	25.40	20.57		16		329.18		
		7	PL.210x10	320	2	78.50	10.55		32		168.81		
							31.12	8+8				**497.99**	
PG-10 & 10X	1	19	ISMC 250	2472	2	30.60	151.29		32		2420.58		
		2	PL.180x8	270	1	62.80	3.05		16		48.83		
		3	ISMB 200	490	1	25.40	12.45		16		199.14		
		4	PL.120x10	220	1	78.50	2.07		16		33.16		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
							185.20	1+1				**370.40**	
	2		MATERIAL SAME AS PG-10 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
		20	PL.232x10	451	1	78.50	8.21		4		32.85		
							194.40	2+2				**777.61**	
	3		MATERIAL SAME AS PG-10 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		21	PL.236x10	350	2	78.50	12.97		4		25.94		
							198.17	1+1				**396.34**	
	4		MATERIAL SAME AS PG-10 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		6	PL.180x10	410	1	78.50	5.79		4		23.17		
							185.20	2+2				**740.80**	
	5		MATERIAL SAME AS PG-10 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	6		MATERIAL SAME AS PG-10 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		2		10.55		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							180.91	1+1				**361.83**	
	7	22	ISMB 200	1112	1	25.40	28.24		4		112.98		
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
							38.80	2+2				**155.18**	
	8	23	ISMB 200	960	1	25.40	24.38		12		292.61		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							34.93	6+6				**419.21**	
	9	24	L 100x100x8	1943	2	12.10	47.02		8		188.08		
		15	PL.70x10	120	2	78.50	1.32		8		5.28		
							48.34	2+2				**193.36**	

BILL OF MATERIALS PART-II

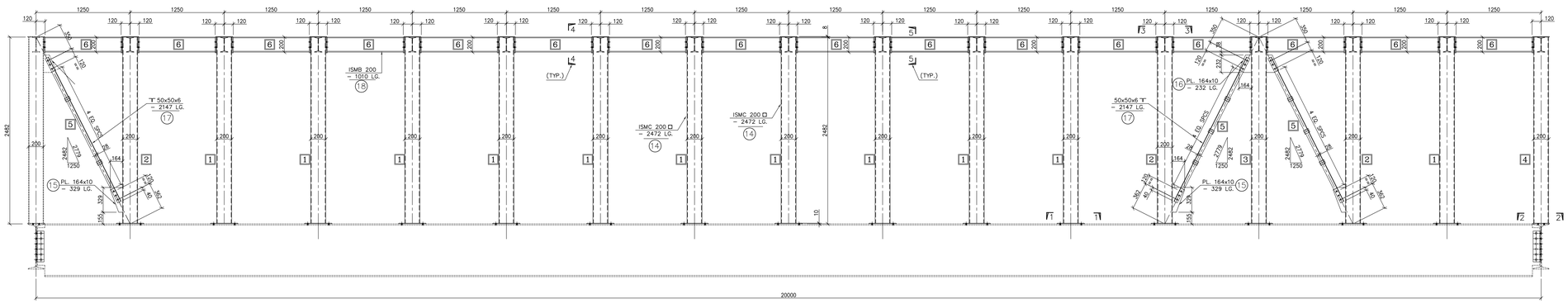
ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-8 & 8X	1	25	ISMC 250	2472	2	30.60	151.29		64		4841.16		
		2	PL.180x8	270	1	62.80	3.05		32		97.67		
		3	ISMB 200	490	1	25.40	12.45		32		398.27		
		4	PL.120x10	220	1	78.50	2.07		32		66.32		
		6	PL.180x10	410	1	78.50	5.79		12		69.52		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							185.20	6+6				**2222.41**	
	2		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		16		84.40		
		8	PL.270x10	320	1	78.50	6.78		8		54.26		
							186.19	4+4				**1489.52**	
	3		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
		26	PL.232x10	451	1	78.50	8.21		4		32.85		
							194.40	2+2				**777.61**	
	4		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		6	PL.180x10	410	1	78.50	5.79		4		23.17		
		27	PL.236x10	350	2	78.50	12.97		8		51.87		
							198.17	2+2				**792.68**	
	5		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
		26	PL.232x10	451	1	78.50	8.21		4		32.85		
							189.13	2+2				**756.51**	
	6	27	L 100x100x8	1943	2	12.10	47.02		16		376.16		
		15	PL.70x10	120	2	78.50	1.32		16		10.55		
							48.34	4+4				**386.72**	
	7	28	ISMB 200	960	1	25.40	24.38		32		780.29		
		7	PL.210x10	320	2	78.50	10.55		64		337.61		
							34.93	16+16				**1117.90**	
PG-12 & 12X	1	25	ISMC 250	2472	2	30.60	151.29		64		4841.16		
		2	PL.180x8	270	1	62.80	3.05		32		97.67		
		3	ISMB 200	490	1	25.40	12.45		32		398.27		
		4	PL.120x10	220	1	78.50	2.07		32		66.32		
		6	PL.180x10	410	1	78.50	5.79		12		69.52		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							185.20	6+6				**2222.41**	
	2		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		16		84.40		
		8	PL.270x10	320	1	78.50	6.78		8		54.26		
							186.19	4+4				**1489.52**	
	3		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
							186.19	2+2				**744.76**	
	4		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		6	PL.180x10	410	1	78.50	5.79		4		23.17		
							185.20	2+2				**740.80**	
	5		MATERIAL SAME AS PG-8 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
							180.91	2+2				**723.66**	
	7	28	ISMB 200	960	1	25.40	24.38		32		780.29		
		7	PL.210x10	320	2	78.50	10.55		64		337.61		
							34.93	16+16				**1117.90**	
PG-14 & 14X	1	29	ISMC 250	2472	2	30.60	151.29		24		1815.44		
		2	PL.180x8	270	1	62.80	3.05		12		36.62		
		3	ISMB 200	490	1	25.40	12.45		12		149.35		
		4	PL.120x10	220	1	78.50	2.07		12		24.87		
		6	PL.180x10	410	1	78.50	5.79		4		23.17		
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
							185.20	2+2				**740.80**	
	2		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
							186.19	1+1				**372.38**	
	3		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
		30	PL.227x10	518	1	78.50	9.23		2		18.46		
							195.42	1+1				**390.84**	
	4		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		31	PL.226x10	388	2	78.50	13.77		4		27.53		
							198.97	1+1				**397.94**	
	5		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		2		10.55		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
		30	PL.227x10	518	1	78.50	9.23		2		18.46		
							190.14	1+1				**380.29**	
	6	32	L 100x100x8	1772	2	12.10	42.88		8		171.53		
		15	PL.70x10	120	2	78.50	1.32		8		5.28		
							44.20	2+2				**176.80**	
	7	33	ISMB 200	810	1	25.40	20.57		12		246.89		
		7	PL.210x10	320	2	78.50	10.55		24		126.60		
							31.12	6+6				**373.49**	
PG-11 & 11X	1	34	ISMC 250	2472	2	30.60	151.29		32		2420.58		
		2	PL.180x8	270	1	62.80	3.05		16		48.83		
		3	ISMB 200	490	1	25.40	12.45		16		199.14		
		4	PL.120x10	220	1	78.50	2.07		16		33.16		
		6	PL.180x10	410	1	78.50	5.79		6		34.76		
		7	PL.210x10	320	2	78.50	10.55		12		63.30		
							185.20	3+3				**1111.20**	
	2		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		8		42.20		
		8	PL.270x10	320	1	78.50	6.78		4		27.13		
							186.19	2+2				**744.76**	
	3		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
		35	PL.231x10	531	1	78.50	9.63		2		19.26		
							195.82	1+1				**391.64**	
	4		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	2	78.50	10.55		4		21.10		
		6	PL.180x10	410	1	78.50	5.79		2		11.59		
		36	PL.231x10	361	2	78.50	13.09		4		26.18		
							198.29	1+1				**396.59**	
	5		MATERIAL SAME AS PG-14 BOX MKD 1 OMIT ITEM NO. 6,7				168.86						
		7	PL.210x10	320	1	78.50	5.28		2		10.55		
		8	PL.270x10	320	1	78.50	6.78		2		13.56		
		35	PL.231x10	531	1	78.50	9.63		2		19.26		
							190.54	1+1				**381.09**	
	6	37	L 100x100x8	1870	2	12.10	45.25		8		181.02		
		15	PL.70x10	120	2	78.50	1.32		8		5.28		
							46.57	2+2				**186.29**	
	7	33	ISMB 200	897.5	1	25.40	22.80		16		364.74		
		7	PL.210x10	320	2	78.50	10.55		32		168.81		
							33.35	8+8				**533.55**	

BILL OF MATERIALS PART-III

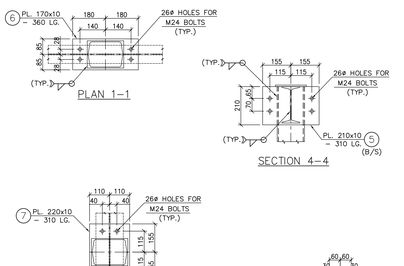
ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-15 & 15X	1	38	ISMC 200	2472	2	22.30	110.25		48		2646.03		
		38A	PL.170x8	220	1	62.80	2.35		24		56.37		
		3	ISMB 200	490	1	25.40	12.45		24		298.70		
		4	PL.120x10	220	1	78.50	2.07		24		49.74		
		6A	PL.170x10	360	1	78.50	4.80		8		38.43		
		7A	PL.210x10	310	2	78.50	10.22		16		81.77		
							142.14	4+4				**1137.15**	
	2		MATERIAL SAME AS PG-15 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	2	78.50	10.22		16		81.77		
		8A	PL.170x10	360	1	78.50	4.80		8		38.43		
							142.14	4+4				**1137.15**	
	3		MATERIAL SAME AS PG-15 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	2	78.50	10.22		8		40.88		
		6A	PL.170x10	360	1	78.50	4.80		4		19.22		
		39	PL.175x10	299	1	78.50	4.11		4		16.43		
							146.25	2+2				**585.00**	
	4		MATERIAL SAME AS PG-15 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	1	78.50	5.11		4		20.44		
		8A	PL.170x10	360	1	78.50	4.80		4		19.22		
		40	PL.225x10	254	1	78.50	4.49		4		17.95		
							141.52	2+2				**566.08**	
	5	41	L 50x50x6	2256	2	4.50	20.30		8		81.22		
		42	PL.50x10	70	3	78.50	0.82		12		3.30		
							21.13	2+2				**84.51**	
	6	43	ISMB 200	1260	1	25.40	32.00		8		256.03		
		7A	PL.210x10	310	1	78.50	5.11		8		40.88		
							37.11	4+4				**296.91**	
	7	44	ISMB 200	1010	1	25.40	25.65		16		410.46		
		7A	PL.210x10	310	1	78.50	5.11		16		81.77		
							30.76	8+8				**492.23**	
PG-16 & 16X	1	45	ISMC 200	2472	2	22.30	110.25		48		2646.03		
		38A	PL.170x8	220	1	62.80	2.35		24		56.37		
		3	ISMB 200	490	1	25.40	12.45		24		298.70		
		4	PL.120x10	220	1	78.50	2.07		24		49.74		
		6A	PL.170x10	360	1	78.50	4.80		8		38.43		
		7A	PL.210x10	310	2	78.50	10.22		16		81.77		
							142.14	4+4				**1137.15**	
	2		MATERIAL SAME AS PG-16 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	2	78.50	10.22		16		81.77		
		6A	PL.170x10	360	1	78.50	4.80		8		38.43		
							142.14	4+4				**1137.15**	
	3		MATERIAL SAME AS PG-16 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	2	78.50	10.22		8		40.88		
		6A	PL.170x10	360	1	78.50	4.80		4		19.22		
		46	PL.175x10	299	1	78.50	4.11		4		16.43		
							146.25	2+2				**585.00**	
	4		MATERIAL SAME AS PG-16 BOX MKD 1 OMIT ITEM NO. 6A,7A				127.12						
		7A	PL.210x10	310	1	78.50	5.11		4		20.44		
		8A	PL.170x10	360	1	78.50	4.80		4		19.22		
		47	PL.225x10	254	1	78.50	4.49		4		17.95		
							141.52	2+2				**566.08**	
	5	48	L 50x50x6	2256	2	4.50	20.30		8		81.22		
		42	PL.50x10	70	3	78.50	0.82		12		3.30		
							21.13	2+2				**84.51**	
	6	49	ISMB 200	1260	1	25.40	32.00		8		256.03		
		7A	PL.210x10	310	2	78.50	10.22		16		81.77		
							42.22	4+4				**337.80**	
	7	50	ISMB 200	1010	1	25.40	25.65		16		410.46		
		7A	PL.210x10	310	2	78.50	10.22		32		163.53	



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-21



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-22

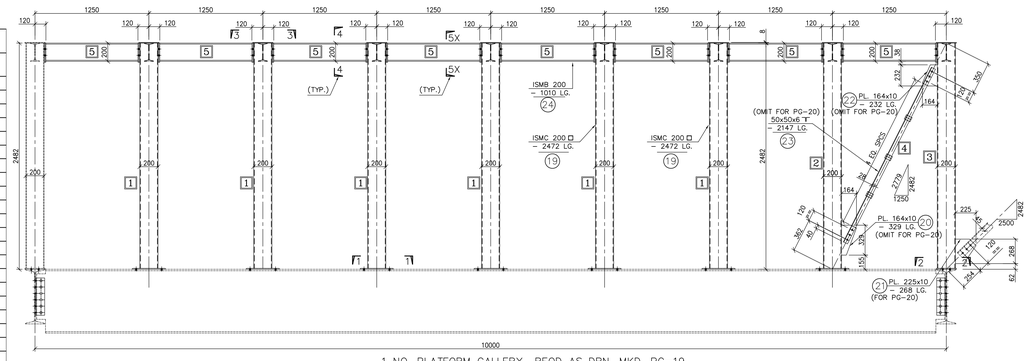


BILL OF MATERIALS PART - I

ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-21	1	1	ISMC 200	2472	2	22.30	110.25		32		1764.02		
		2	PL.170x8	220	1	62.80	2.35		16		37.58		
		3	ISMC 200	490	1	22.30	10.93		16		174.83		
		4	PL.120x10	220	1	78.50	2.07		16		33.16		
		5	PL.210x10	310	2	78.50	10.22		12		61.32		
		6	PL.170x10	360	1	78.50	4.80		6		28.83		
							140.62	6				843.75	
	2		MATERIA SAME AS MKD PG-21 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		10		51.10		
		7	PL.220x10	310	1	78.50	5.35		5		26.77		
							141.17	5				705.87	
	3		MATERIA SAME AS MKD PG-21 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		6	PL.170x10	360	1	78.50	4.80		1		4.80		
		8	PL.164x10	329	1	78.50	4.24		1		4.24		
							144.86	1				144.86	
	4		MATERIA SAME AS MKD PG-21 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		4		20.44		
		7	PL.220x10	310	1	78.50	5.35		2		10.71		
		9	PL.164x10	329	1	78.50	4.24		2		8.47		
							145.41	2				290.82	
	5		MATERIA SAME AS MKD PG-21 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		6	PL.170x10	360	1	78.50	4.80		1		4.80		
		10	PL.164x10	232	1	78.50	2.99		1		2.99		
							143.61	1				143.61	
	6		MATERIA SAME AS MKD PG-21 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	1	78.50	5.11		1		5.11		
		7	PL.220x10	310	1	78.50	5.35		1		5.35		
							136.06	1				136.06	
	7	11	L 50x50x6	2147	2	4.50	19.32		6		57.97		
		12	PL.50x10	70	3	78.50	0.82		9		2.47		
							20.15	3				60.44	
	8	13	ISMB 200	1010	1	25.40	25.65		16		410.46		
		5	PL.210x10	310	2	78.50	10.22		32		163.53		
							35.87	16				574.00	
PG-22	1	14	ISMC 200	2472	2	22.30	110.25		32		1764.02		
		2	PL.170x8	220	1	62.80	2.35		16		37.58		
		3	ISMC 200	490	1	22.30	10.93		16		174.83		
		4	PL.120x10	220	1	78.50	2.07		16		33.16		
		5	PL.210x10	310	2	78.50	10.22		22		112.43		
		6	PL.170x10	360	1	78.50	4.80		11		52.85		
							140.62	11				1546.87	
	2		MATERIA SAME AS MKD PG-22 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		6		30.66		
		6	PL.170x10	360	1	78.50	4.80		3		14.41		
		15	PL.164x10	329	1	78.50	4.24		3		12.71		
							144.86	3				434.58	
	3		MATERIA SAME AS MKD PG-22 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		6	PL.170x10	360	1	78.50	4.80		1		4.80		
		16	PL.164x10	232	1	78.50	2.99		1		2.99		
							143.61	1				143.61	
	4		MATERIA SAME AS MKD PG-22 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	1	78.50	5.11		1		5.11		
		7	PL.220x10	310	1	78.50	5.35		1		5.35		
							136.06	1				136.06	
	5	17	L 50x50x6	2147	2	4.50	19.32		6		57.97		
		12	PL.50x10	70	3	78.50	0.82		9		2.47		
							20.15	3				60.44	
	6	18	ISMB 200	1010	1	25.40	25.65		16		410.46		
		5	PL.210x10	310	2	78.50	10.22		32		163.53		
							35.87	16				574.00	

BILL OF MATERIALS PART - II

ERECTION MKD.	BOX NO	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PG-19	1	19	ISMC 200	2472	2	22.30	110.25		16		882.01		
		2	PL.170x8	220	1	62.80	2.35		8		18.79		
		3	ISMC 200	490	1	22.30	10.93		8		87.42		
		4	PL.120x10	220	1	78.50	2.07		8		16.58		
		5	PL.210x10	310	2	78.50	10.22		12		61.32		
		6	PL.170x10	360	1	78.50	4.80		6		28.83		
							140.62	6				843.75	
	2		MATERIA SAME AS MKD PG-19 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		6	PL.170x10	360	1	78.50	4.80		1		4.80		
		20	PL.164x10	329	1	78.50	4.24		1		4.24		
							144.86	1				144.86	
	3		MATERIA SAME AS MKD PG-19 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		7	PL.220x10	310	1	78.50	5.35		1		5.35		
		21	PL.225x10	268	1	78.50	4.73		1		4.73		
		22	PL.164x10	232	1	78.50	2.99		1		2.99		
							148.89	1				148.89	
	4	23	L 50x50x6	2147	2	4.50	19.32		2		19.32		
		12	PL.50x10	70	3	78.50	0.82		3		0.82		
							20.15	1				20.15	
	5	24	ISMB 200	1010	1	25.40	25.65		8		205.23		
		5	PL.210x10	310	2	78.50	10.22		16		81.77		
							35.87	8				287.00	
PG-20	1	19	ISMC 200	2472	2	22.30	110.25		16		882.01		
		2	PL.170x8	220	1	62.80	2.35		8		18.79		
		3	ISMC 200	490	1	22.30	10.93		8		87.42		
		4	PL.120x10	220	1	78.50	2.07		8		16.58		
		5	PL.210x10	310	2	78.50	10.22		12		61.32		
		6	PL.170x10	360	1	78.50	4.80		6		28.83		
							140.62	6				843.75	
	2		MATERIA SAME AS MKD PG-19 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		6	PL.170x10	360	1	78.50	4.80		1		4.80		
							140.62	1				140.62	
	3		MATERIA SAME AS MKD PG-19 BOX.MKD 1 OMIT ITEM NO 5,6				125.60						
		5	PL.210x10	310	2	78.50	10.22		2		10.22		
		7	PL.220x10	310	1	78.50	5.35		1		5.35		
							141.17	1				141.17	
	5	24	ISMB 200	1010	1	25.40	25.65		6		205.23		
		5	PL.210x10	310	2	78.50	10.22		12		81.77		
							35.87	8				287.00	
TOTAL WEIGHT 8652.15 KG. = 8.652 T.													



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG-19
1 NO. PLATFORM GALLERY REQD AS DRN. & NOTED MKD. PG-20

BOLT SCHEDULE

ITEM NO.	HEX BOLTS SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	HEX NUT TOTAL NOS. REQUIRED	WEIGHT Weight (kg.)
A1	M24	P	P.C. 8.8	50	656	656	204.672
C1	M16	P	P.C. 8.8	50	42	42	4.452
					TOTAIL WIGHT=		209.124

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 200	1231.39	E350-SA/IS: 2062-2006 GR-A
2	ISMC 200	5816.55	E350-SA/IS: 2062-2006 GR-A
3	L 50x50x6	135.26	E350-SA/IS: 2062-2006 GR-A
4	PL. 10 THK.	1356.20	E350-SA/IS: 2062-2006 GR-A
5	PL. 8 THK.	112.74	E350-SA/IS: 2062-2006 GR-A
TOTAL WEIGHT=		8652.15	

NOTES: 1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS
RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM GALLERY

DRAWING NO. 0-96132-1-0014
REV. 00
SHEET NO. 01
NO OF SHEETS 01

Sep Fri 27 09:35 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
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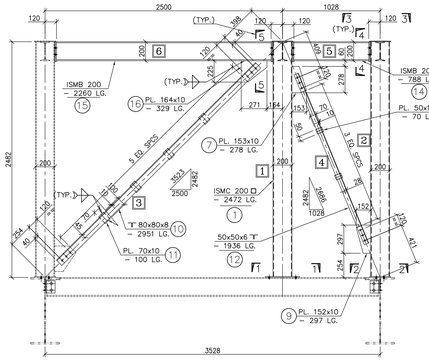
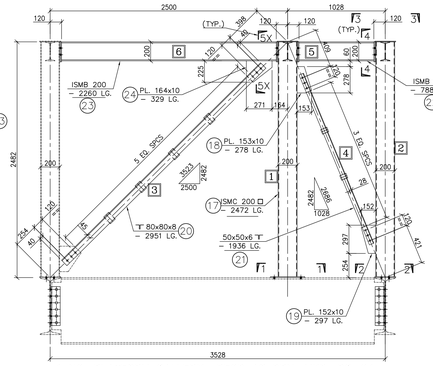


1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–23



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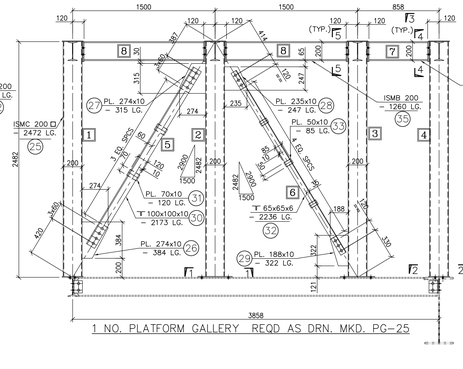
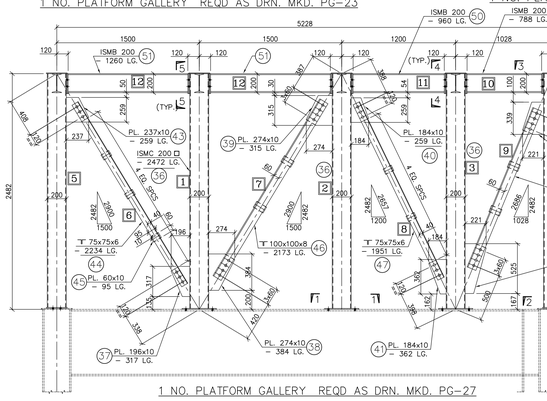
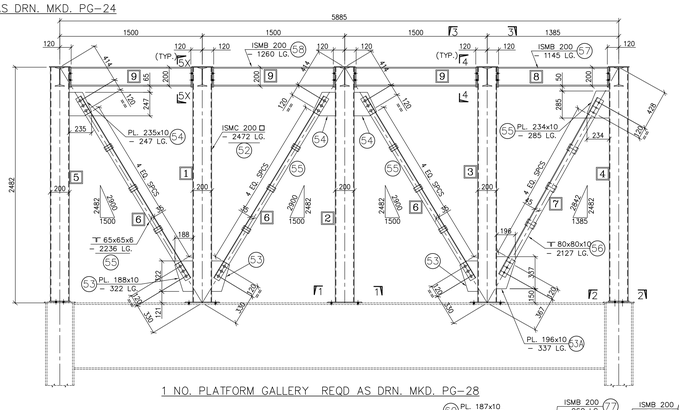


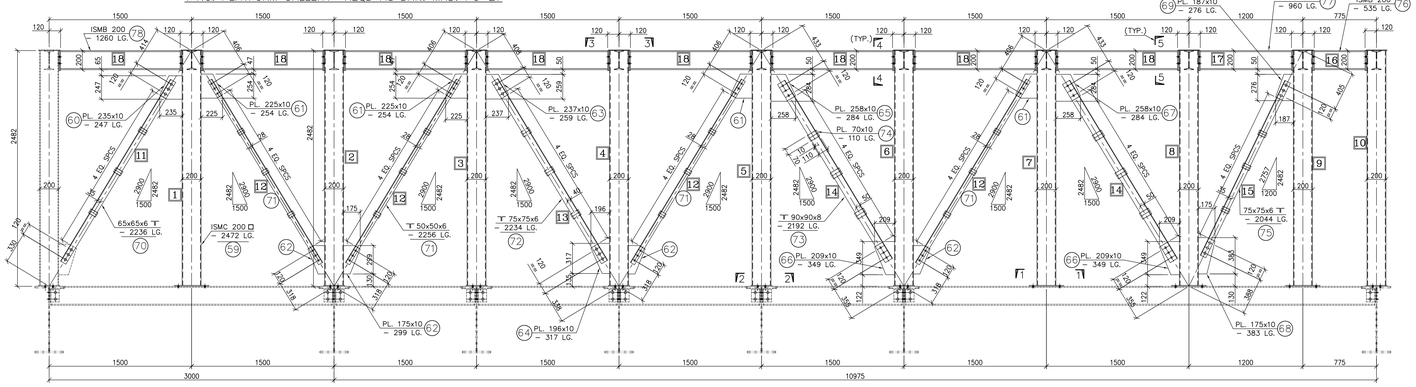
1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–25



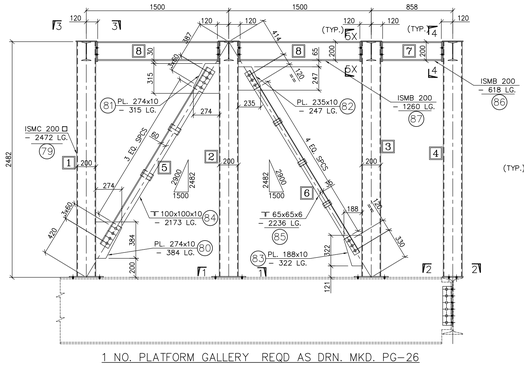
1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–27



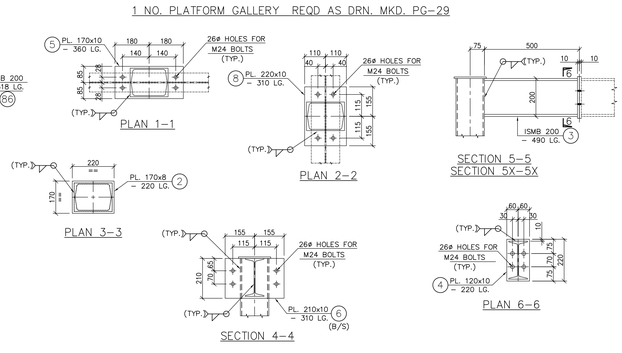
1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–28



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–29



1 NO. PLATFORM GALLERY REQD AS DRN. MKD. PG–26



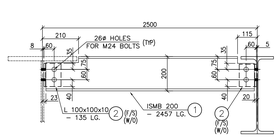
BILL OF MATERIALS PART-II

ERECTION MKD.	BOX NO.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kg.)	WEIGHT FOR ONE ASSEMBLY (Kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kg.)	EREC. MKD. WT.(Kg.)	REMARKS
PG-28	1	52	ISMC 200	2472	2	22.30	110.25		10		551.26		
		2	PL 170x8	220	1	62.80	2.35		5		11.74		
		3	ISMB 200	490	1	25.40	12.45		5		62.23		
		4	PL 120x10	220	1	78.50	2.07		5		10.36		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	1	78.50	5.11		1		5.11		
		53	PL 188x10	322	2	78.50	9.50		2		9.50		
							146.54	1				146.54	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,53				127.12						
	2	5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 270x10	320	2	78.50	13.56		2		13.56		
		54	PL 235x10	247	2	78.50	9.11		2		9.11		
							154.60	1				154.60	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,53				127.12						
	3	5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 270x10	320	2	78.50	13.56		2		13.56		
		53	PL 188x10	322	1	78.50	4.75		1		4.75		
		55A	PL 196x10	337	1	78.50	5.19		1		5.19		
							155.42	1				155.42	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,53				127.12						
	4	8	PL 220x10	310	1	78.50	5.35		1		5.35		
		6	PL 270x10	320	1	78.50	6.78		1		6.78		
		55	PL 234x10	285	1	78.50	5.24		1		5.24		
							144.49	1				144.49	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,53				127.12						
	5	8	PL 220x10	310	1	78.50	5.35		1		5.35		
		6	PL 270x10	320	1	78.50	6.78		1		6.78		
		54	PL 196x10	337	1	78.50	5.19		1		5.19		
							144.44	1				144.44	
		55	L 65x65x6	2236	2	5.80	25.94	6			77.81		
	6	33	PL 50x10	85	3	78.50	1.00		9		3.00		
							26.94	3				80.82	
		56	L 80x80x10	2127	2	11.80	50.20		2		50.20		
	7	11	PL 70x10	100	3	78.50	1.65		3		1.65		
							51.85	1				51.85	
		57	ISMB 200	2145	1	25.40	54.48		2		108.97		
	8	6	PL 210x10	310	2	78.50	10.22		4		20.44		
							64.70	2				129.41	
		58	ISMB 200	1260	1	25.40	32.00		3		96.01		
	9	6	PL 210x10	310	2	78.50	10.22		6		30.66		
							42.22	3				126.67	
		59	ISMC 200	2472	2	22.30	110.25		20		1102.51		
		2	PL 170x8	220	1	62.80	2.35		10		23.48		
		3	ISMB 200	490	1	25.40	12.45		10		124.46		
	1	4	PL 120x10	220	1	78.50	2.07		10		20.72		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	2	78.50	10.22		2		10.22		
		60	PL 220x10	247	1	78.50	4.56		1		4.56		
		61	PL 225x10	254	1	78.50	4.49		1		4.49		
							151.19	1				151.19	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	3	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		61	PL 225x10	254	1	78.50	4.49		1		4.49		
		63	PL 237x10	259	1	78.50	4.82		1		4.82		
							155.34	1				155.34	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	4	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		62	PL 175x10	299	1	78.50	4.11		1		4.11		
		64	PL 196x10	317	1	78.50	4.88		1		4.88		
							155.02	1				155.02	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	5	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		61	PL 225x10	254	1	78.50	4.49		1		4.49		
		65	PL 209x10	264	1	78.50	5.75		1		5.75		
							156.27	1				156.27	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	6	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		62	PL 175x10	299	1	78.50	4.11		1		4.11		
		66	PL 209x10	349	1	78.50	5.73		1		5.73		
							155.87	1				155.87	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	7	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		61	PL 225x10	254	1	78.50	4.49		1		4.49		
		67	PL 258x10	284	1	78.50	5.75		1		5.75		
							156.27	1				156.27	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	8	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		66	PL 209x10	349	1	78.50	5.73		1		5.73		
		68	PL 175x10	383	1	78.50	5.26		1		5.26		
							156.47	1				156.47	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	9	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		69	PL 187x10	276	1	78.50	4.05		1		4.05		
							149.54	1				149.54	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,61,62				127.12						
	10	5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 270x10	320	1	78.50	6.78		1		6.78		
							138.70	1				138.70	
		70	L 65x65x6	2236	2	5.80	25.94	6			77.81		
	11	33	PL 50x10	85	3	78.50	1.00		9		3.00		
							26.94	3				80.82	
		71	L 50x50x6	2256	2	4.50	20.30		8		81.22		
	12	13	PL 50x10	70	3	78.50	2.13		12		3.30		
							21.13	4				84.51	
		72	L 75x75x6	2234	2	6.80	30.38		2		30.38		
	13	45	PL 60x10	95	2	78.50	0.89		2		0.89		
							31.28	1				31.28	
		73	L 90x90x8	2192	2	10.80	47.35		4		94.69		
	14	74	PL 70x10	110	3	78.50	1.81		6		3.63		
							49.16	2				98.32	
		75	L 75x75x6	2044	2	6.80	27.80		2		27.80		
	15	45	PL 60x10	95	2	78.50	0.89		2		0.89		
							28.69	1				28.69	
		76	ISMB 200	535	1	25.40	13.59		1		13.59		
	16	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							23.81	1				23.81	
		77	ISMB 200	960	1	25.40	24.38		1		24.38		
	17	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							34.60	1				34.60	
		78	ISMB 200	1260	1	25.40	32.00		8		256.03		
	18	6	PL 210x10	310	2	78.50	10.22		16		81.77		
							42.22	8				337.80	
PG-26		79	ISMC 200	2472	2	22.30	110.25		8		441.00		
		2	PL 170x8	220	1	62.80	2.35		4		9.39		
		3	ISMB 200	490	1	25.40	12.45		4		49.78		
	1	4	PL 120x10	220	1	78.50	2.07		4		8.29		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	1	78.50	5.11		1		5.11		
		80	PL 274x10	384	1	78.50	8.26		1		8.26		
							145.29	1				145.29	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,80				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	2	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		81	PL 274x10	315	1	78.50	6.78		1		6.78		
		82	PL 235x10	247	1	78.50	4.56		1		4.56		
							156.82	1				156.82	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,80				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	3	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		83	PL 188x10	322	1	78.50	4.75		1		4.75		
							150.24	1				150.24	
			MATERIAL SAME AS MKD PG-28 BOX 1 OMIT ITEM NO 5,6,80				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	4	6	PL 270x10	320	1	78.50	6.78		1		6.78		
							139.25	1				139.25	
		84	L 100x100x10	2173	2	14.90	64.76		2		64.76		
	5	31	PL 70x10	120	2	78.50	1.32		2		1.32		
							66.07	1				66.07	
		85	L 65x65x6	2236	2	5.80	25.94		2		25.94		
	6	33	PL 50x10	85	3	78.50	1.00		3		3.00		
							26.94	1				26.94	
		86	ISMB 200	618	1	25.40	15.70		1		15.70		
	7	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							25.92	1				25.92	
		87	ISMB 200	1260	1	25.40	32.00		2		64.01		
	8	6	PL 210x10	310	2	78.50	10.22		4		20.44		
							42.22	2				84.45	

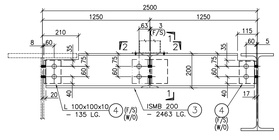
TOTAL WEIGHT 6965.85 KG = 6.966 T.

BILL OF MATERIALS PART-I

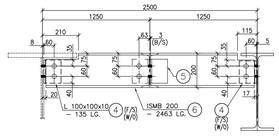
ERECTION MKD.	BOX NO.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kg.)	WEIGHT FOR ONE ASSEMBLY (Kg.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kg.)	EREC. MKD. WT.(Kg.)	REMARKS
PG-23	1	1	ISMC 200	2472	2	22.30	110.25		4		220.50		
		2	PL 170x8	220	1	62.80	2.35		2		4.70		
		3	ISMB 200	490	1	25.40	12.45		2		24.89		
		4	PL 120x10	220	1	78.50	2.07		2		4.14		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	2	78.50	10.22		2		10.22		
		7	PL 153x10	278	1	78.50	3.34		1		3.34		
							140.48	1				140.48	
			MATERIAL SAME AS MKD PG-23 BOX 1 OMIT ITEM NO 5,6,7				127.12						
	2	8	PL 220x10	310	1	78.50	5.35		1		5.35		
		6	PL 270x10	320	1	78.50	6.78		1		6.78		
		9	PL 153x10	287	1	78.50	3.54		1		3.54		
							142.80	1				142.80	
	3	10	L 90x90x8	2491	2	9.40	46.66		2		46.66		
		11	PL 70x10	100	4	78.50	2.20		4		2.20		
							58.86	1				58.86	
	4	12	L 50x50x6	1936	2	4.50	17.42		2		17.42		
		13	PL 50x10	70	2	78.50	0.55		2		0.55		
							17.97	1				17.97	
		14	ISMB 200	788	1	25.40	20.02		1		20.02		
	5	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							30.24	1				30.24	
		15	ISMB 200	2280	1	25.40	57.40		1		57.40		
	6	6	PL 210x10	310	2	78.50	10.22		2		10.22		
		16	PL 164x10	329	1	78.50	4.24		1		4.24		
							71.86	1				71.86	
		17	ISMC 200	2472	2	22.30	110.25		4		220.50		
		2	PL 170x8	220	1	62.80	2.35		2		4.70		
		3	ISMB 200	490	1	25.40	12.45		2		24.89		
	1	4	PL 120x10	220	1	78.50	2.07		2		4.14		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	2	78.50	10.22		2		10.22		
		18	PL 153x10	278	1	78.50	3.34		1		3.34		
							140.48	1				140.48	
			MATERIAL SAME AS MKD PG-24 BOX 1 OMIT ITEM NO 5,6,18				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	2	6	PL 270x10	320	1	78.50	6.78		1		6.78		
		19	PL 152x10	297	1	78.50	3.54		1		3.54		
							142.80	1				142.80	
PG-24		20	L 80x80x8	2951	2	9.60	56.66		2		56.66		
	3	11	PL 70x10	100	4	78.50	2.20		4		2.20		
							58.86	1				58.86	
		21	L 50x50x6	1936	2	4.50	17.42		2		17.42		
	4	13	PL 50x10	70	2	78.50	0.55		2		0.55		
							17.97	1				17.97	
		22	ISMB 200	788	1	25.40	20.02		1		20.02		
	5	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							30.24	1				30.24	
		23	ISMB 200	2280	1	25.40	57.40		1		57.40		
	6	6	PL 210x10	310	2	78.50	10.22		2		10.22		
		24	PL 164x10	329	1	78.50	4.24		1		4.24		
							71.86	1				71.86	
		25	ISMC 200	2472	2	22.30	110.25		8		441.00		
		2	PL 170x8	220	1	62.80	2.35		4		9.39		
		3	ISMB 200	490	1	25.40	12.45		4		49.78		
	1	4	PL 120x10	220	1	78.50	2.07		4		8.29		
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
		6	PL 210x10	310	1	78.50	5.11		1		5.11		
		26	PL 274x10	384	1	78.50	8.26		1		8.26		
							140.64	1				140.64	
			MATERIAL SAME AS MKD PG-25 BOX 1 OMIT ITEM NO 5,6,26				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	2	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		27	PL 274x10	315	1	78.50	6.78		1		6.78		
		28	PL 220x10	247	1	78.50	4.56		1		4.56		
							156.82	1				156.82	
PG-25			MATERIAL SAME AS MKD PG-25 BOX 1 OMIT ITEM NO 5,6,28				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	3	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		29	PL 196x10	322	1	78.50	4.75		1		4.75		
							150.24	1				150.24	
			MATERIAL SAME AS MKD PG-25 BOX 1 OMIT ITEM NO 5,6,28				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	4	6	PL 270x10	320	1	78.50	6.78		1		6.78		
							139.25	1				139.25	
		30	L 100x100x10	2173	2	14.90	64.76		2		64.76		
	5	31	PL 70x10	120	2	78.50	1.32		2		1.32		
							66.07	1				66.07	
		32	L 65x65x6	2236	2	5.80	25.94		2		25.94		
	6	33	PL 50x10	85	2	78.50	0.67		2		0.67		
							26.60	1				26.60	
		34	ISMB 200	618	1	25.40	15.70		1		15.70		
	7	6	PL 210x10	310	2	78.50	10.22		2		10.22		
							25.92	1				25.92	
		35	ISMB 200	1260	1	25.40	32.00		2		64.01		
	8	6	PL 210x10	310	2	78.50	10.22		4		20.44		
							42.22	2				84.45	
		36	ISMC 200	2472	2	22.30	110.25		10		551.26		
		2	PL 170x8	220	1	62.80	2.35		5		11.74		
		3	ISMB 200	490	1	25.40	12.45		5		62.23		
	1	4	PL 120x10	220	1	78.50	2.07		5		10.36		
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
		6	PL 210x10	310	1	78.50	5.11		1		5.11		
		37	PL 196x10	317	1	78.50	4.88		1		4.88		
		38	PL 274x10	384	1	78.50	8.26		1		8.26		
							150.17	1				150.17	
			MATERIAL SAME AS MKD PG-27 BOX 1 OMIT ITEM NO 5,6,37,38				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	2	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		39	PL 274x10	315	1	78.50	6.78		1		6.78		
		40	PL 184x10	259	1	78.50	3.74		1		3.74		
							156.00	1				156.00	
PG-27			MATERIAL SAME AS MKD PG-27 BOX 1 OMIT ITEM NO 5,6,37,38				127.12						
		5	PL 170x10	360	1	78.50	4.80		1		4.80		
	3	6	PL 270x10	320	2	78.50	13.56		2		13.56		
		41	PL 184x10	362	1	78.50	5.23		1		5.23		
		42	PL 221x10	525	1	78.50	9.11		1		9.11		
							159.82	1				159.82	
			MATERIAL SAME AS MKD PG-27 BOX 1 OMIT ITEM NO 5,6,37,38				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	4	6	PL 270x10	320	1	78.50	6.78		1		6.78		
		42	PL 221x10	339	1	78.50	5.86		1		5.86		
							145.14	1				145.14	
			MATERIAL SAME AS MKD PG-27 BOX 1 OMIT ITEM NO 5,6,37,38				127.12						
		8	PL 220x10	310	1	78.50	5.35		1		5.35		
	5	6	PL 270x10	320	1	78.50	6.78		1		6.78		
		43	PL 237x10	259	1	78.50	4.82		1		4.82		
							144.07	1				144.07	
		44	L 75x75x6	2234	2	6.80	30.38		2		30.38		
	6	45	PL 60x10	95	2	78.50	0.89		2		0.89		
							31.28	1				31.28	
		46	L 100x100x8	2173	2	12.10	52.59		2		52.59		
	7	31	PL 70x10	120	2	78.50	1.32		2		1.32		
							53.91	1				53.91	
		47	L 75x75x6	1951	2	6.80	26.53		2		26.53		
	8	45	PL 60x10	95	2	78.50	0.89		2		0.89		
							27.43	1				27.43



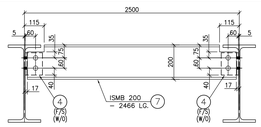
13 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-64
7 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-64X



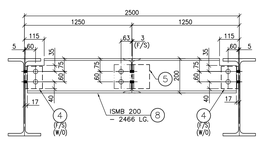
7 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-65
7 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-65X



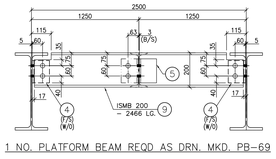
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-66



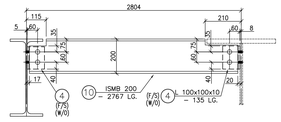
29 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-67



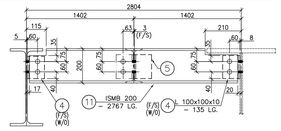
9 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-68
9 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-68X



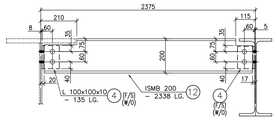
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-69



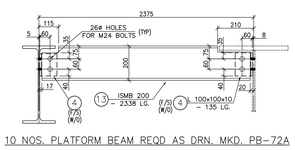
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-70



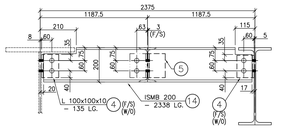
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-71
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB-71X



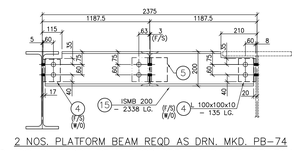
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-72



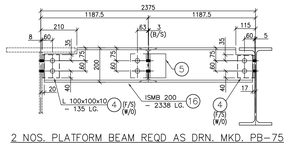
10 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-72A



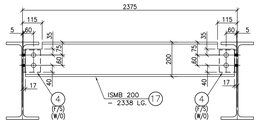
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB-73
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB-73X



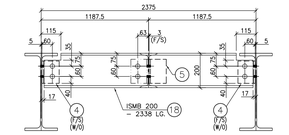
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-74
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-74X



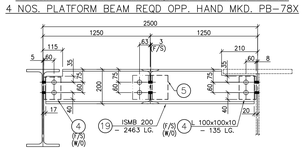
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-75



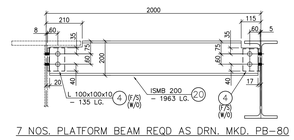
19 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-77



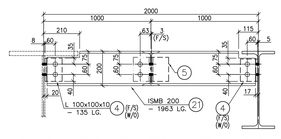
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-78
4 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-78X



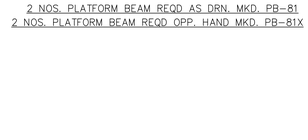
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-79
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-79X



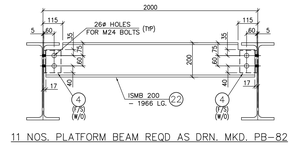
7 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-80



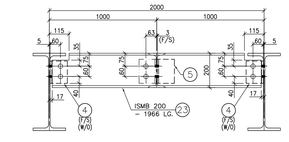
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-81
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-81X



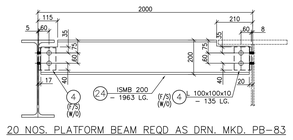
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-72



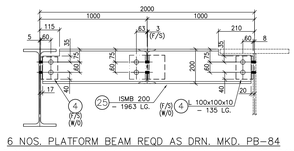
11 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-82



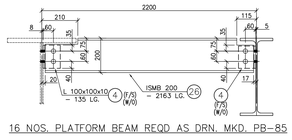
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-82A
3 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-82AX



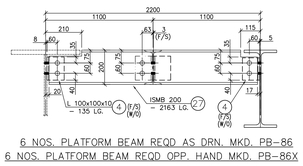
20 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-83



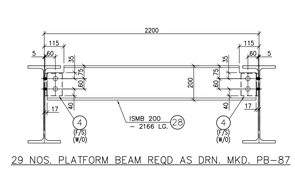
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-84
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-84X



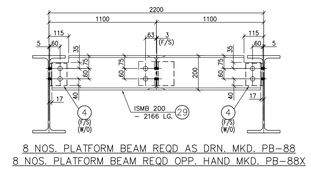
16 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-85



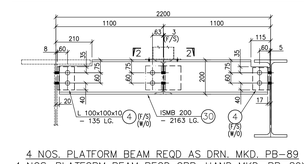
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-86
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-86X



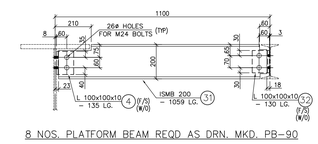
29 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-87



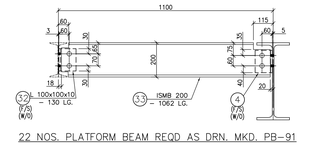
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-88
8 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-88X



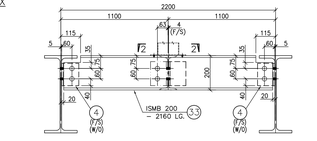
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-89
4 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-89X



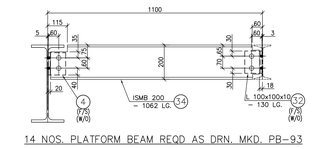
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-90



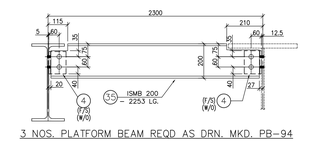
22 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-91



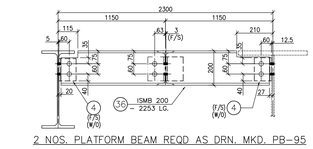
7 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-92
7 NOS. PLATFORM BEAM REQD AS DRN. OPP. HAND MKD. PB-92X



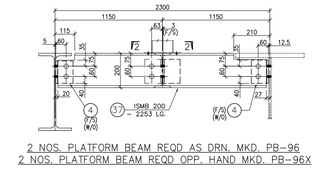
14 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-93



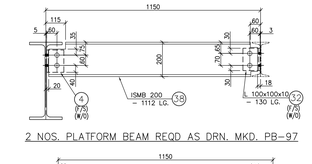
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-94



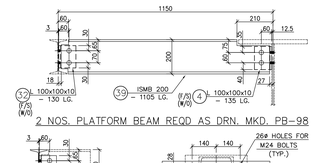
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-95
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-95X



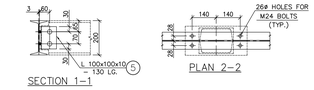
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-96
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB-96X



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-97



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB-98



SECTION 1–1

PLAN 2–2

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-64 & 64X	1	ISMB 200	2457	1	25.40	62.41		16		1248.16		
	2	L 100x100x10	135	2	14.90	4.02		32		80.46		
						66.43	13+7				1328.62	
PB-65 & 65X	3	ISMB 200	2463	1	25.40	62.56		14		875.84		
	4	L 100x100x10	135	2	14.90	4.02		28		56.32		
	5	L 100x100x10	130	1	14.90	1.94		14		27.12		
						68.52	7+7				959.28	
PB-66	6	ISMB 200	2463	1	25.40	62.56		1		62.56		
	4	L 100x100x10	135	2	14.90	4.02		2		4.02		
	5	L 100x100x10	130	2	14.90	3.87		2		3.87		
						70.46	1				70.46	
PB-67	7	ISMB 200	2466	1	25.40	62.64		29		1816.46		
	4	L 100x100x10	135	2	14.90	4.02		58		116.67		
						66.66	29				1933.12	
PB-68 & 68X	8	ISMB 200	2466	1	25.40	62.64		18		1127.46		
	4	L 100x100x10	135	2	14.90	4.02		36		72.41		
	5	L 100x100x10	130	1	14.90	1.94		18		34.87		
						68.60	9+9				1234.74	
PB-69	9	ISMB 200	2466	1	25.40	62.64		1		62.64		
	4	L 100x100x10	135	2	14.90	4.02		2		4.02		
	5	L 100x100x10	130	2	14.90	3.87		2		3.87		
						70.53	1				70.53	
PB-70	10	ISMB 200	2767	1	25.40	70.28		4		281.13		
	4	L 100x100x10	135	2	14.90	4.02		8		16.09		
						74.30	4				297.22	
PB-71 & 71X	11	ISMB 200	2767	1	25.40	70.28		2		140.56		
	4	L 100x100x10	135	2	14.90	4.02		4		8.05		
	5	L 100x100x10	130	1	14.90	1.94		2		3.87		
						76.24	1+1				152.48	
PB-72	12	ISMB 200	2338	1	25.40	59.39		8		475.08		
	4	L 100x100x10	135	2	14.90	4.02		16		32.18		
						63.41	8				507.27	
PB-72A	13	ISMB 200	2338	1	25.40	59.39		10		593.85		
	4	L 100x100x10	135	2	14.90	4.02		20		40.23		
						63.41	10				634.08	
PB-73 & 73X	14	ISMB 200	2338	1	25.40	59.39		2		118.77		
	4	L 100x100x10	135	2	14.90	4.02		4		8.05		
	5	L 100x100x10	130	1	14.90	1.94		2		3.87		
						65.35	1+1				130.69	
PB-74 & 74X	15	ISMB 200	2338	1	25.40	59.39		4		237.54		
	4	L 100x100x10	135	2	14.90	4.02		8		16.09		
	5	L 100x100x10	130	1	14.90	1.94		4		7.75		
						65.35	2+2				261.38	
PB-75	16	ISMB 200	2338	1	25.40	59.39		2		118.77		
	4	L 100x100x10	135	2	14.90	4.02		4		8.05		
	5	L 100x100x10	130	2	14.90	3.87		4		7.75		
						67.28	2				134.56	
PB-77	17	ISMB 200	2338	1	25.40	59.39		19		1128.32		
	4	L 100x100x10	135	2	14.90	4.02		38		76.44		
						63.41	19				1204.76	
PB-78 & 78X	18	ISMB 200	2338	1	25.40	59.39		8		475.08		
	4	L 100x100x10	135	2	14.90	4.02		16		32.18		
	5	L 100x100x10	130	1	14.90	1.94		8		15.50		
						65.35	4+4				522.76	
PB-79 & 79X	19	ISMB 200	2463	1	25.40	62.56		4		250.24		
	4	L 100x100x10	135	2	14.90	4.02		8		16.09		
	5	L 100x100x10	130	1	14.90	1.94		4		7.75		
						68.52	2+2				274.08	
PB-80	20	ISMB 200	1963	1	25.40	49.86		7		349.02		
	4	L 100x100x10	135	2	14.90	4.02		14		28.16		
						53.98	7				377.18	
PB-81 & 81X	21	ISMB 200	1963	1	25.40	49.86		4		199.44		
	4	L 100x100x10	135	2	14.90	4.02		8		16.09		
	5	L 100x100x10	130	1	14.90	1.94		4		7.75		
						55.82	2+2				223.28	
PB-82	22	ISMB 200	1966	1	25.40	49.94		11		549.30		
	4	L 100x100x10	135	2	14.90	4.02		22		44.25		
						53.96	11				593.55	
PB-82A & 82AX	23	ISMB 200	1966	1	25.40	49.94		6		299.62		
	4	L 100x100x10	135	2	14.90	4.02		12		24.14		
	5	L 100x100x10	130	1	14.90	1.94		6		11.62		
						55.90	3+3				335.38	
PB-83	24	ISMB 200	1963	1	25.40	49.86		20		997.20		
	4	L 100x100x10	135	2	14.90	4.02		40		80.46		
						53.88	20				1077.66	
PB-84 & 84X	25	ISMB 200	1963	1	25.40	49.86		12		598.32		
	4	L 100x100x10	135	2	14.90	4.02		24		48.28		
	5	L 100x100x10	130	1	14.90	1.94		12		23.24		
						55.82	6+6				669.84	
PB-85	26	ISMB 200	2163	1	25.40	54.94		16		879.04		
	4	L 100x100x10	135	2	14.90	4.02		32		64.37		
						58.96	16				943.41	
PB-86 & 86X	27	ISMB 200	2163	1	25.40	54.94		12		659.28		
	4	L 100x100x10	135	2	14.90	4.02		24		48.28		
	5	L 100x100x10	130	1	14.90	1.94		12		23.24		
						60.90	6+6				730.80	
PB-87	28	ISMB 200	2166	1	25.40	55.02		29		1595.48		
	4	L 100x100x10	135	2	14.90	4.02		58		116.67		
						59.04	29				1712.14	
PB-88 & 88X	29	ISMB 200	2166	1	25.40	55.02		16		880.26		
	4	L 100x100x10	135	2	14.90	4.02		32		64.37		
	5	L 100x100x10	130	1	14.90	1.94		16		30.99		
						60.98	8+8				975.62	
PB-89 & 89X	30	ISMB 200	2163	1	25.40	54.94		8		439.52		
	4	L 100x100x10	135	2	14.90	4.02		16		32.18		
	5	L 100x100x10	130	1	14.90	1.94		8		15.50		
						60.90	4+4				487.20	
PB-90	31	ISMB 200	1059	1	25.40	26.90		8		215.19		
	4	L 100x100x10	135	1	14.90	2.01		8		16.09		
	32	L 100x100x10	130	1	14.90	1.94		8		15.50		
						30.85	8				246.78	
PB-91	33	ISMB 200	1062	1	25.40	26.97		22		593.45		
	4	L 100x100x10	135	1	14.90	2.01		22		44.25		
	32	L 100x100x10	130	1	14.90	1.94		22		42.61		
						30.92	22				680.31	
PB-92 & 92X	33	ISMB 200	2160	1	25.40	54.86		14		768.10		
	4	L 100x100x10	135	1	14.90	2.01		14		28.16		
	5	L 100x100x10	130	1	14.90	1.94		14		27.12		
						58.81	7+7				823.38	
PB-93	34	ISMB 200	1062	1	25.40	26.97		14		377.65		
	4	L 100x100x10	135	1	14.90	2.01		14		28.16		
	32	L 100x100x10	130	1	14.90	1.94		14		27.12		
						30.92	14				432.93	
PB-94	35	ISMB 200	2253	1	25.40	57.23		3		171.68		
	4	L 100x100x10	135	2	14.90	4.02		6		12.07		
						61.25	3				183.75	
PB-95 & 95X	36	ISMB 200	2253	1	25.40	57.23		4		228.90		
	4	L 100x100x10	135	1	14.90	2.01		4		8.05		
	5	L 100x100x10	130	2	14.90	3.87		8		15.50		
						63.11	2+2				252.45	
PB-96 & 96X	37	ISMB 200	2253	1	25.40	57.23		4		228.90		
	4	L 100x100x10	135	2	14.90	4.02		8		16.09		
	5	L 100x100x10	130	1	14.90	1.94		4		7.75		
						63.19	2+2				252.74	
PB-97	38	ISMB 200	1112	1	25.40	28.24		2		56.49		
	32	L 100x100x10	130	1	14.90	1.94		2		3.87		
	4	L 100x100x10	135	1	14.90	2.01		2		4.02		
						32.19	2				64.39	
PB-98	39	ISMB 200	1105	1	25.40	28.07		2		56.13		
	32	L 100x100x10	130	1	14.90	1.94		2		3.87		
	4	L 100x100x10	135	1	14.90	2.01		2		4.02		
						32.02	2				64.03	

TOTAL WEIGHT 20842.86 KG. = 20.843 T.

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 200	19155.44	E350-SA/IS: 2062-2006 GR-A
2	L 100x100x10	1687.43	E350-SA/IS: 2062-2006 GR-A

ITEM NO.	BOLT SCHEDULE							
	HEX BOLTS					HEX NUT	WEIGHT	
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)	
A1	M24	P	P.C. 8.8	50	1424	1424	444.288	
					TOTAIL WIGHT=		444.288	

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430

SCALE NTS

WEIGHT (KG)

REF. TO ASSY DRG.

ITEM NO.

NO.OF ITEMS

RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO.
0-96132-1-0016

REV. 00

SHEET NO. 01 NO OF SHEETS 01

Sep Fri 27 09:36 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
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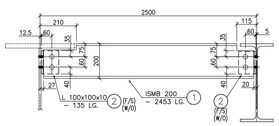
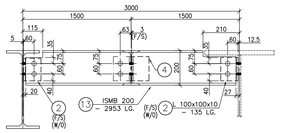
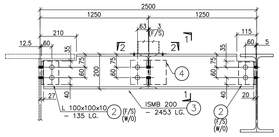


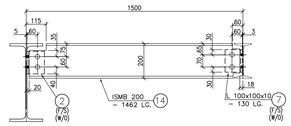
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–99



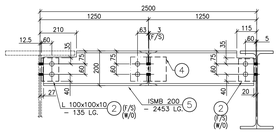
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–107
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–107X



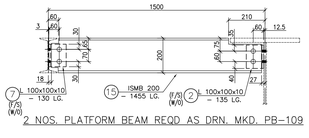
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–100
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–100X



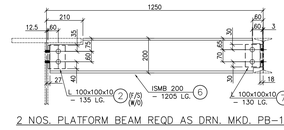
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–108



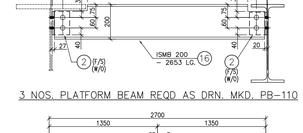
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–101
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–101X



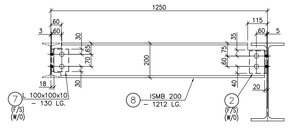
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–109



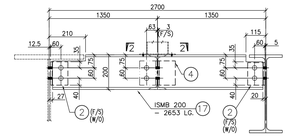
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–102



3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–110



16 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–103



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–111
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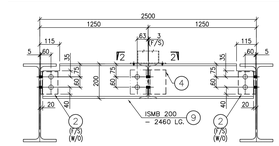
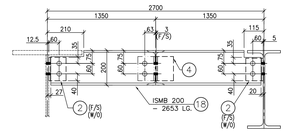
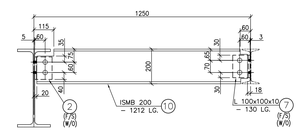


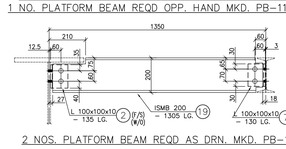
5 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–104
5 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–104X



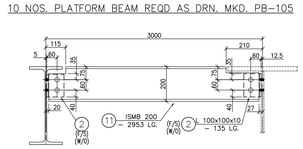
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–112
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–112X



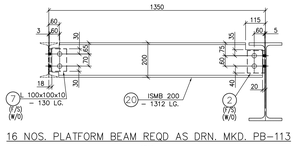
10 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–105



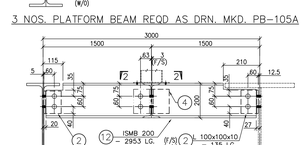
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–1A



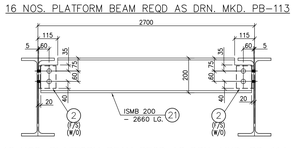
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–105A



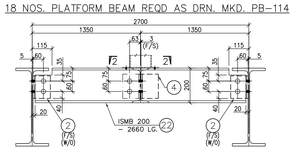
16 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–113



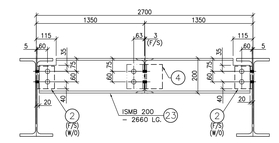
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–106
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–106X



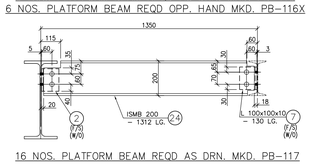
18 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–114



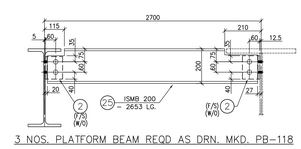
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–115
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–115X



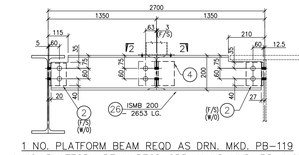
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–116
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–116X



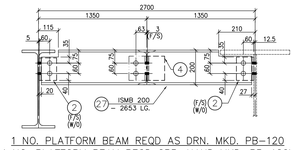
16 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–117



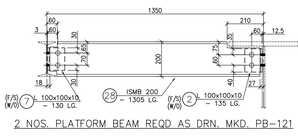
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–118



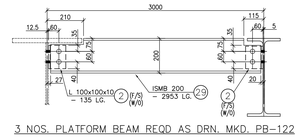
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–119
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–119X



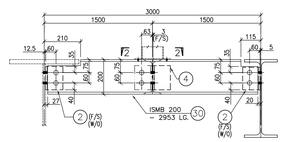
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–120
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–120X



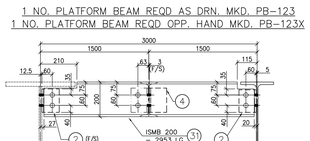
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–121



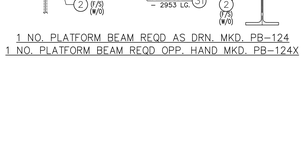
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–122



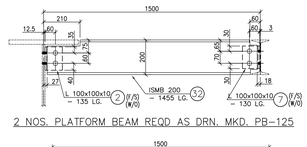
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–123
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–123X



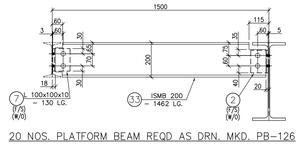
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–124
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–124X



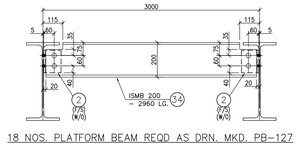
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–115
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–115X



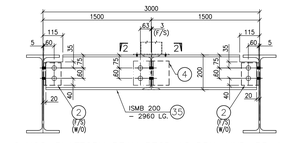
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–125



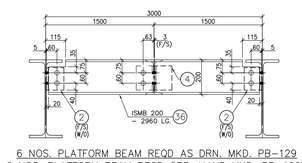
20 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–126



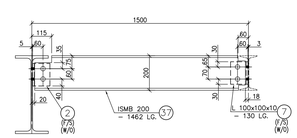
18 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–127



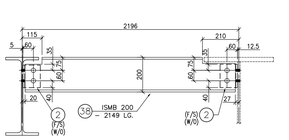
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–128
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–128X



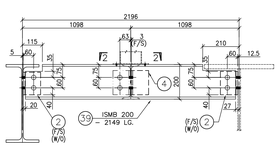
6 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–129
6 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–129X



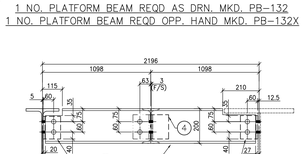
12 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–130



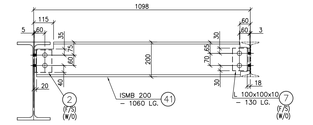
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–131



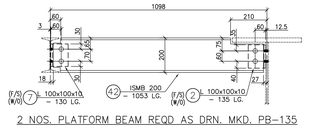
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–132
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–132X



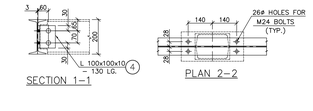
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–133
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–133X



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–134



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–135



BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)
PB-99	1	ISMB 200	2453	1	25.40	62.31		3		186.92	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						66.33	3				198.99
PB-100&100X	3	ISMB 200	2453	1	25.40	62.31		2		124.61	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						68.27	1+1				136.53
PB-101&101X	5	ISMB 200	2453	1	25.40	62.31		2		124.61	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						68.27	1+1				136.53
PB-102	6	ISMB 200	1205	1	25.40	30.61		2		61.21	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						34.56	2				69.11
PB-103	8	ISMB 200	1212	1	25.40	30.78		16		492.56	
	2	L 100x100x10	135	1	14.90	2.01		16		32.18	
	7	L 100x100x10	130	1	14.90	1.94		16		30.99	
						34.73	16				555.73
PB-104 & 104X	9	ISMB 200	2460	1	25.40	62.48		10		624.84	
	2	L 100x100x10	135	2	14.90	4.02		20		40.23	
	4	L 100x100x10	130	1	14.90	1.94		10		19.37	
						68.44	5+5				684.44
PB-105	10	ISMB 200	1212	1	25.40	30.78		10		307.85	
	2	L 100x100x10	135	1	14.90	2.01		10		20.12	
	7	L 100x100x10	130	1	14.90	1.94		10		19.37	
						34.73	10				347.33
PB-105A	11	ISMB 200	2953	1	25.40	75.01		3		225.02	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						79.03	3				237.09
PB-106 & 106X	12	ISMB 200	2953	1	25.40	75.01		2		150.01	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						80.97	1+1				161.93
PB-107 & 107X	13	ISMB 200	2953	1	25.40	75.01		2		150.01	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						80.97	1+1				161.93
PB-108	14	ISMB 200	1462	1	25.40	37.13		2		74.27	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						41.08	2				82.17
PB-109	15	ISMB 200	1455	1	25.40	36.96		2		73.91	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						40.91	2				81.81
PB-110	16	ISMB 200	2653	1	25.40	67.39		3		202.16	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						71.41	3				214.23
PB-111 & 111X	17	ISMB 200	2653	1	25.40	67.39		2		134.77	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						73.35	1+1				146.69
PB-112 & 112X	18	ISMB 200	2653	1	25.40	67.39		2		134.77	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						73.35	1+1				146.69
PB-1A	19	ISMB 200	1305	1	25.40	33.15		2		66.29	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						37.10	2				74.19
PB-113	20	ISMB 200	1312	1	25.40	33.32		16		533.20	
	2	L 100x100x10	135	1	14.90	2.01		16		32.18	
	7	L 100x100x10	130	1	14.90	1.94		16		30.99	
						37.27	16				596.37
PB-114	21	ISMB 200	2660	1	25.40	67.56		18		1216.15	
	2	L 100x100x10	135	2	14.90	4.02		36		72.41	
						71.59	18				1288.57
PB-115 & 115X	22	ISMB 200	2660	1	25.40	67.56		12		810.77	
	2	L 100x100x10	135	2	14.90	4.02		24		48.28	
	4	L 100x100x10	130	1	14.90	1.94		12		23.24	
						73.52	6+6				882.29
PB-116 & 116X	23	ISMB 200	2660	1	25.40	67.56		12		810.77	
	2	L 100x100x10	135	2	14.90	4.02		24		48.28	
	4	L 100x100x10	130	1	14.90	1.94		12		23.24	
						73.52	6+6				882.29
PB-117	24	ISMB 200	1312	1	25.40	33.32		16		533.20	
	2	L 100x100x10	135	1	14.90	2.01		16		32.18	
	7	L 100x100x10	130	1	14.90	1.94		16		30.99	
						37.27	16				596.37
PB-118	25	ISMB 200	2653	1	25.40	67.39		3		202.16	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						71.41	3				214.23
PB-119 & 119X	26	ISMB 200	2653	1	25.40	67.39		2		134.77	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						73.35	1+1				146.69
PB-120 & 120X	27	ISMB 200	2653	1	25.40	67.39		2		134.77	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						73.35	1+1				146.69
PB-121	28	ISMB 200	1305	1	25.40	33.15		2		66.29	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						37.10	2				74.19
PB-122	29	ISMB 200	2953	1	25.40	75.01		3		225.02	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						79.03	3				237.09
PB-123 & 123X	30	ISMB 200	2953	1	25.40	75.01		2		150.01	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						80.97	1+1				161.93
PB-124 & 124X	31	ISMB 200	2953	1	25.40	75.01		2		150.01	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						80.97	1+1				161.93
PB-125	32	ISMB 200	1455	1	25.40	36.96		2		73.91	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						40.91	2				81.81
PB-126	33	ISMB 200	1462	1	25.40	37.13		20		742.70	
	2	L 100x100x10	135	1	14.90	2.01		20		40.23	
	7	L 100x100x10	130	1	14.90	1.94		20		38.74	
						41.08	20				821.67
PB-127	34	ISMB 200	2960	1	2.00	5.92		18		106.56	
	2	L 100x100x10	135	1	14.90	2.01		18		36.21	
						7.93	18				142.77
PB-128 & 128X	35	ISMB 200	2960	1	25.40	75.18		12		902.21	
	2	L 100x100x10	135	2	14.90	4.02		24		48.28	
	4	L 100x100x10	130	1	14.90	1.94		12		23.24	
						81.14	6+6				973.73
PB-129 & 129X	36	ISMB 200	2960	1	25.40	75.18		12		902.21	
	2	L 100x100x10	135	2	14.90	4.02		24		48.28	
	4	L 100x100x10	130	1	14.90	1.94		12		23.24	
						81.14	6+6				973.73
PB-130	37	ISMB 200	1462	1	25.40	37.13		12		445.62	
	2	L 100x100x10	135	1	14.90	2.01		12		24.14	
	7	L 100x100x10	130	1	14.90	1.94		12		23.24	
						41.08	12				493.00
PB-131	38	ISMB 200	2149	1	25.40	54.58		3		163.75	
	2	L 100x100x10	135	2	14.90	4.02		6		12.07	
						58.61	3				175.82
PB-132 & 132X	39	ISMB 200	2149	1	25.40	54.58		2		109.17	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						60.54	1+1				121.09
PB-133 & 133X	40	ISMB 200	2149	1	25.40	54.58		2		109.17	
	2	L 100x100x10	135	2	14.90	4.02		4		8.05	
	4	L 100x100x10	130	1	14.90	1.94		2		3.87	
						60.54	1+1				121.09
PB-134	41	ISMB 200	1060	1	25.40	26.92		2		53.85	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						30.87	2				61.75
PB-135	42	ISMB 200	1053	1	25.40	26.75		2		53.49	
	2	L 100x100x10	135	1	14.90	2.01		2		4.02	
	7	L 100x100x10	130	1	14.90	1.94		2		3.87	
						30.69	2				61.39
TOTAL WEIGHT 12851.88 KG. = 12.852 T.											

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 200	11763.59	E350-SA/IS: 2062-2006 GR-A
2	L 100x100x8	1088.30	E350-SA/IS: 2062-2006 GR-A

BOLT SCHEDULE

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	50	968	968	302.016
					TOTAL WIGHT=		302.016

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	KARTHIK		23.09.19	
CHD.	SAMPATH			
APPD.	SCJ			

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0017
REV. 00
SHEET NO. 01
NO OF SHEETS 01

Sep Fri 27 09:36 2019
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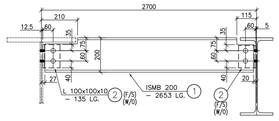
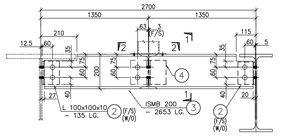
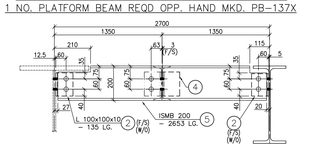
Therefore signatures are not essentially required.



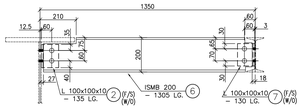
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–136



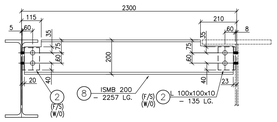
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–137
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–137X



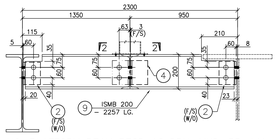
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–138
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–138X



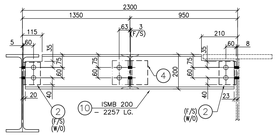
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–139



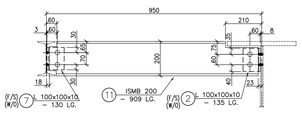
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–140



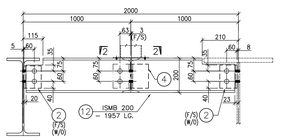
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–141
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–141X



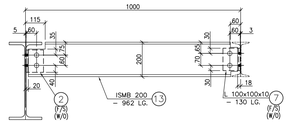
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–142
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–142X



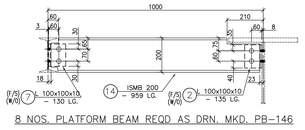
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–143



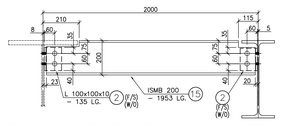
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–144
4 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–144X



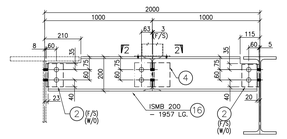
12 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–145



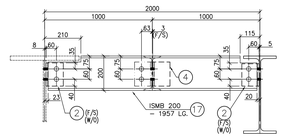
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–146



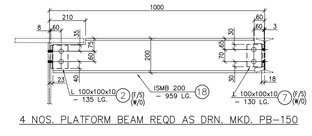
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–147



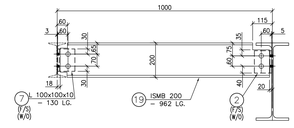
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–148
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–148X



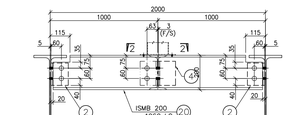
1 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–149
1 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–149X



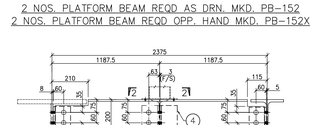
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–150



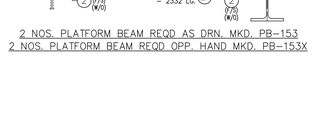
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–151



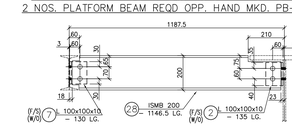
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–152
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–152X



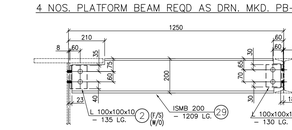
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–153
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–153X



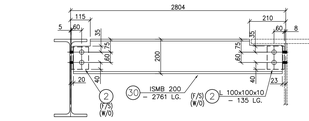
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–154
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–154X



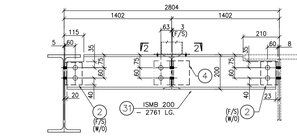
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–155



12 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–156



4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–157
4 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–157X



12 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–158

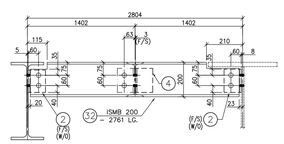
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–159
2 NOS. PLATFORM BEAM REQD OPP. HAND MKD. PB–159X

4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–160

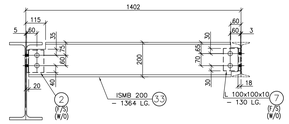
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–161

3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–162

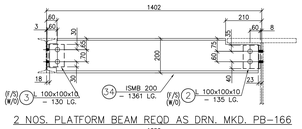
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–163
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–163X



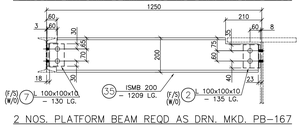
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–164
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–164X



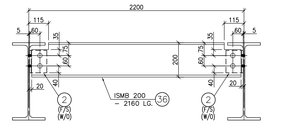
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–165



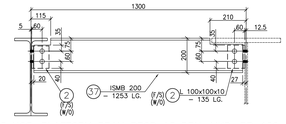
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–166



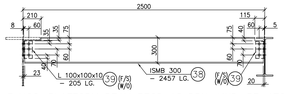
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–167



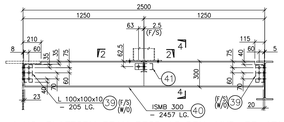
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–168



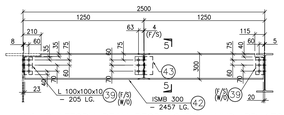
8 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–169



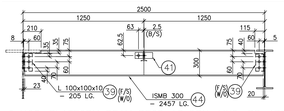
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–170



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–171
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–171X

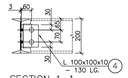


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–172
1 NO. PLATFORM BEAM REQD OPP. HAND MKD. PB–172X

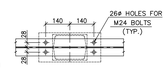


2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–173

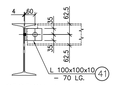
BILL OF MATERIALS											
ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-136	1	ISMB 200	2653	1	25.40	67.39		3		202.16		
	2	L 100x100x10	135	2	14.90	4.02		6		12.07		
						71.41	3				214.23	
PB-137 & 137X	3	ISMB 200	2653	1	25.40	67.39		2		134.77		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						73.35	1+1				146.69	
PB-138 & 138X	5	ISMB 200	2653	1	25.40	67.39		2		134.77		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						73.35	1+1				146.69	
PB-139	6	ISMB 200	1305	1	25.40	33.15		2		66.29		
	2	L 100x100x10	135	1	14.90	2.01		2		4.02		
	7	L 100x100x10	130	1	14.90	1.94		2		3.87		
						37.10	2				74.19	
PB-140	8	ISMB 200	2257	1	25.40	57.33		3		171.98		
	2	L 100x100x10	135	2	14.90	4.02		6		12.07		
						61.35	3				184.05	
PB-141 & 141X	9	ISMB 200	2257	1	25.40	57.33		2		114.66		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						63.29	1+1				126.58	
PB-142 & 142X	10	ISMB 200	2257	1	25.40	57.33		2		114.66		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						63.29	1+1				126.58	
PB-143	11	ISMB 200	909	1	25.40	23.09		2		46.18		
	2	L 100x100x10	135	1	14.90	2.01		2		4.02		
	7	L 100x100x10	130	1	14.90	1.94		2		3.87		
						27.04	2				54.07	
PB-144 & 144X	12	ISMB 200	1957	1	25.40	49.71		8		397.66		
	2	L 100x100x10	135	2	14.90	4.02		16		32.18		
	4	L 100x100x10	130	1	14.90	1.94		8		15.50		
						55.67	4+4				445.34	
PB-145	13	ISMB 200	962	1	25.40	24.43		12		293.22		
	2	L 100x100x10	135	1	14.90	2.01		12		24.14		
	7	L 100x100x10	130	1	14.90	1.94		12		23.24		
						28.38	12				340.60	
PB-146	14	ISMB 200	959	1	25.40	24.36		8		194.87		
	2	L 100x100x10	135	1	14.90	2.01		8		16.09		
	7	L 100x100x10	130	1	14.90	1.94		8		15.50		
						28.31	8				226.46	
PB-147	15	ISMB 200	1953	1	25.40	49.61		3		148.82		
	2	L 100x100x10	135	2	14.90	4.02		6		12.07		
						53.63	3				160.89	
PB-148 & 148X	16	ISMB 200	1957	1	25.40	49.71		4		198.83		
	2	L 100x100x10	135	2	14.90	4.02		8		16.09		
	4	L 100x100x10	130	1	14.90	1.94		4		7.75		
						55.67	2+2				222.67	
PB-149 & 149X	17	ISMB 200	1957	1	25.40	49.71		2		99.42		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						55.67	1+1				111.34	
PB-150	18	ISMB 200	959	1	25.40	24.36		4		97.43		
	2	L 100x100x10	135	1	14.90	2.01		4		8.05		
	7	L 100x100x10	130	1	14.90	1.94		4		7.75		
						28.31	4				113.23	
PB-151	19	ISMB 200	962	1	25.40	24.43		8		195.48		
	2	L 100x100x10	135	1	14.90	2.01		8		16.09		
	7	L 100x100x10	130	1	14.90	1.94		8		15.50		
						28.38	8				227.07	
PB-152 & 152X	20	ISMB 200	1960	1	25.40	49.78		4		199.14		
	2	L 100x100x10	135	2	14.90	4.02		8		16.09		
	4	L 100x100x10	130	1	14.90	1.94		4		7.75		
						55.74	2+2				222.98	
PB-153 & 153X	21	ISMB 200	2332	1	25.40	59.23		4		236.93		
	2	L 100x100x10	135	2	14.90	4.02		8		16.09		
	4	L 100x100x10	130	1	14.90	1.94		4		7.75		
						65.19	2+2				260.77	
PB-154 & 154X	22	ISMB 200	2332	1	25.40	59.23		4		236.93		
	2	L 100x100x10	135	2	14.90	4.02		8		16.09		
	4	L 100x100x10	130	1	14.90	1.94		4		7.75		
						65.19	2+2				260.77	
PB-155	23	ISMB 200	1146.5	1	25.40	29.12		4		116.48		
	2	L 100x100x10	135	1	14.90	2.01		4		8.05		
	7	L 100x100x10	130	1	14.90	1.94		4		7.75		
						33.07	4				132.28	
PB-156	24	ISMB 200	1149.5	1	25.40	29.20		12		350.37		
	2	L 100x100x10	135	1	14.90	2.01		12		24.14		
	7	L 100x100x10	130	1	14.90	1.94		12		23.24		
						33.15	12				397.75	
PB-157 & 157X	25	ISMB 200	1960	1	25.40	49.78		8		398.27		
	2	L 100x100x10	135	2	14.90	4.02		16		32.18		
	4	L 100x100x10	130	1	14.90	1.94		8		15.50		
						55.74	4+4				445.95	
PB-158	26	ISMB 200	1149.5	1	25.40	29.20		12		350.37		
	2	L 100x100x10	135	1	14.90	2.01		12		24.14		
	7	L 100x100x10	130	1	14.90	1.94		12		23.24		
						33.15	12				397.75	
PB-159 & 159X	27	ISMB 200	2332	1	25.40	59.23		4		236.93		
	2	L 100x100x10	135	2	14.90	4.02		8		16.09		
	4	L 100x100x10	130	1	14.90	1.94		4		7.75		
						65.19	2+2				260.77	
PB-160	28	ISMB 200	1146.5	1	25.40	29.12		4		116.48		
	2	L 100x100x10	135	1	14.90	2.01		4		8.05		
	7	L 100x100x10	130	1	14.90	1.94		4		7.75		
						33.07	4				132.28	
PB-161	29	ISMB 200	1209.0	1	25.40	30.71		4		122.83		
	2	L 100x100x10	135	1	14.90	2.01		4		8.05		
	7	L 100x100x10	130	1	14.90	1.94		4		7.75		
						34.66	4				138.63	
PB-162	30	ISMB 200	2761	1	25.40	70.13		3		210.39		
	2	L 100x100x10	135	1	14.90	2.01		3		6.03		
						72.14	3				216.42	
PB-163 & 163X	31	ISMB 200	2761	1	25.40	70.13		2		140.26		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						76.09	1+1				152.18	
PB-164 & 164X	32	ISMB 200	2761	1	25.40	70.13		2		140.26		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
	4	L 100x100x10	130	1	14.90	1.94		2		3.87		
						76.09	1+1				152.18	
PB-165	33	ISMB 200	1364	1	25.40	34.65		2		69.29		
	2	L 100x100x10	135	1	14.90	2.01		2		4.02		
	7	L 100x100x10	130	1	14.90	1.94		2		3.87		
						38.59	2				77.19	
PB-166	34	ISMB 200	1361	1	25.40	34.57		2		69.14		
	2	L 100x100x10	135	1	14.90	2.01		2		4.02		
	7	L 100x100x10	130	1	14.90	1.94		2		3.87		
						38.52	2				77.04	
PB-167	35	ISMB 200	1209	1	25.40	30.71		2		61.42		
	2	L 100x100x10	135	1	14.90	2.01		2		4.02		
	7	L 100x100x10	130	1	14.90	1.94		2		3.87		
						34.66	2				69.31	
PB-168	36	ISMB 200	2160	1	25.40	54.86		2		109.73		
	2	L 100x100x10	135	2	14.90	4.02		4		8.05		
						58.89	2				117.77	
PB-169	37	ISMB 200	1253	1	25.40	31.83		8		254.61		
	2	L 100x100x10	135	2	14.90	4.02		16		32.18		
						35.85	8				286.79	
PB-170	38	ISMB 300	2457	1	44.20	108.60		3		325.80		
	39	L 100x100x10	205	2	14.90	6.11		6		18.33		
						114.71	3				344.13	
PB-171 & 171X	40	ISMB 300	2457	1	44.20	108.60		2		217.20		
	39	L 100x100x10	205	2	14.90	6.11		4		12.22		
	41	L 100x100x10	70	1	14.90	1.04		2		2.09		
						115.75	1+1				231.50	
PB-172 & 172X	42	ISMB 300	2457	1	44.20	108.60		2		217.20		
	39	L 100x100x10	205	2	14.90	6.11		4		12.22		
	43	L 100x100x10	210	1	14.90	3.13		2		6.26		
						117.84	1+1				235.67	
PB-173	44	ISMB 300	2457	1	44.20	108.60		2		217.20		
	39	L 100x100x10	205	2	14.90	6.11		4		12.22		
	41	L 100x100x10	70	2	14.90	2.09		4		4.17		
						116.79	2				233.59	
										7764.37	7764.37	
TOTAL WEIGHT 7764.37 KG. = 7.764 T.												



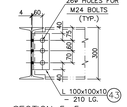
SECTION 1–1



PLAN 2–2



SECTION 4–4



SECTION 5–5

ABSTRACT			
SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	ISMB 300	977.39	IS: 2062-2006 GR-A
2	ISMB 200	6031.03	IS: 2062-2006 GR-A
3	L 100x100x10	755.95	IS: 2062-2006 GR-A
TOTAL WEIGHT=		7764.37	

BOLT SCHEDULE							
ITEM NO.	SIZE	BOLT TYPE	HEX BOLTS BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	HEX NUT TOTAL NOS REQUIRED	WEIGHT Weight (kg.)
A1	M24	P	P.C. 8.8	50	654	654	204.048
					TOTAL WEIGHT=		204.048

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

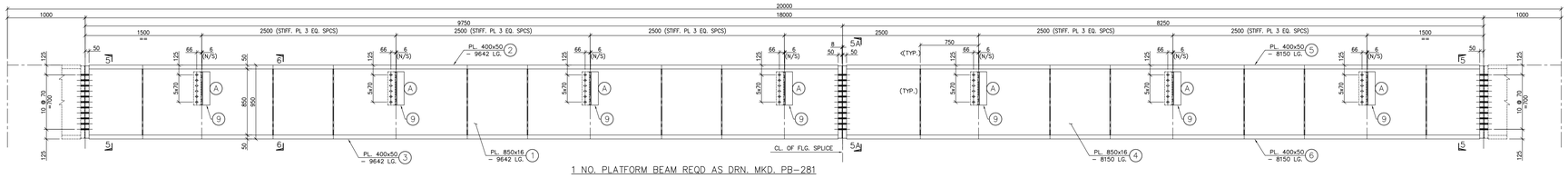
DEPT.	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
OR	NTS				
CODE 4430					

TITLE: FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

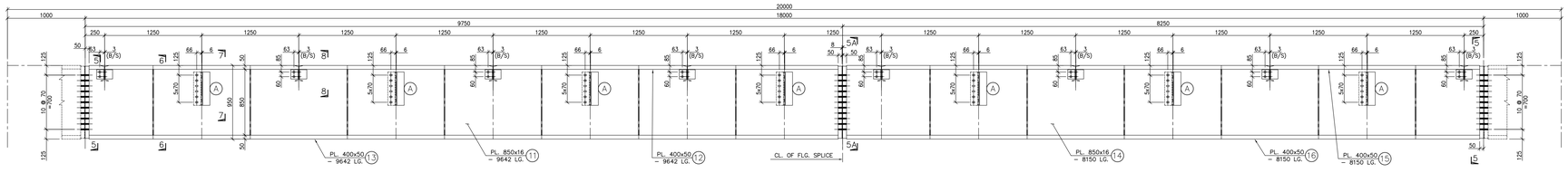
DRAWING NO. 0-96132-1-0018 REV. 00

SHEET NO. 01 NO OF SHEETS 01

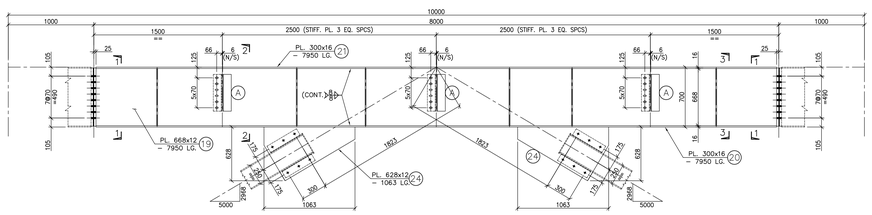
Sep Fri 27 10:49 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



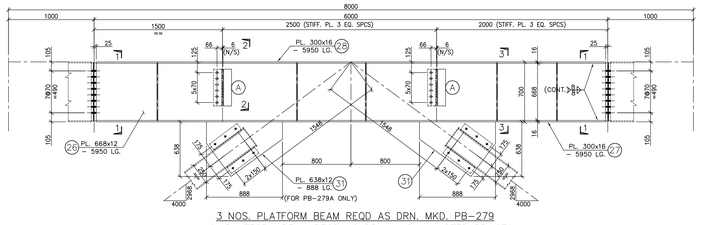
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–281



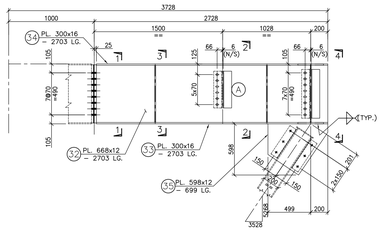
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–282



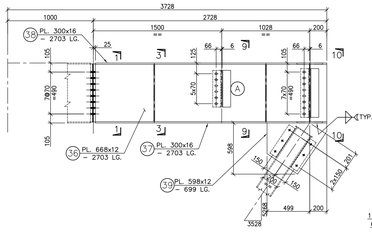
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–278



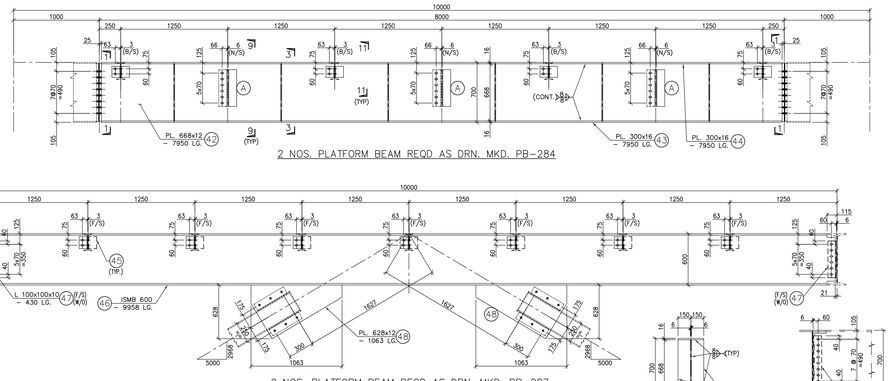
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–279
1 NO. PLATFORM BEAM REQD AS DRN. MKD. & NOTED PB–279A



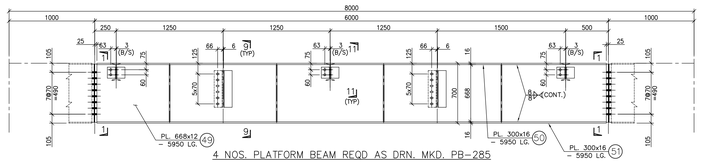
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–280



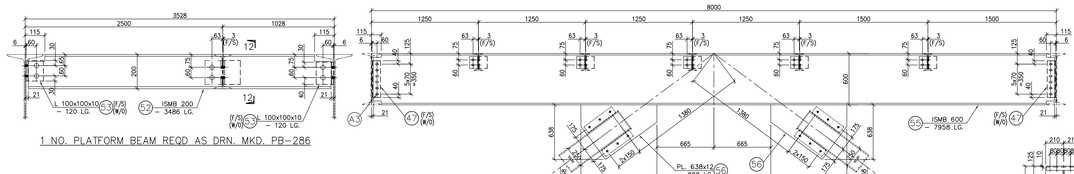
1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–283



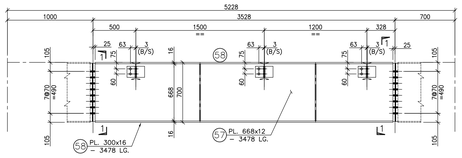
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–284
2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–287



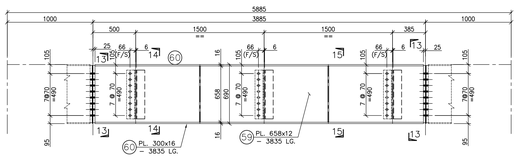
4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–285



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–286
3 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–288
1 NO. PLATFORM BEAM REQD AS DRN. & NOTED MKD. PB–288A

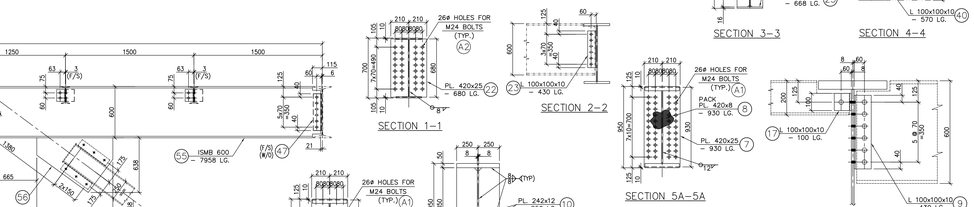


1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–289



1 NO. PLATFORM BEAM REQD AS DRN. MKD. PB–290

4 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–285



2 NOS. PLATFORM BEAM REQD AS DRN. MKD. PB–287

SECTION 3–3
SECTION 4–4

SECTION 1–1
SECTION 2–2

SECTION 5A–5A
SECTION 7–7

SECTION 6–6

SECTION 10–10
SECTION 11–11

SECTION 9–9

SECTION 8–8

SECTION 12–12
SECTION 13–13

SECTION 14–14
SECTION 15–15

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-281	1	PL 850x16	9642	1	125.60	1029.38		1		1029.38		
	2	PL 400x50	9642	1	392.50	1513.79		1		1513.79		
	3	PL 400x50	9642	1	392.50	1513.79		1		1513.79		
	4	PL 850x16	8150	1	125.60	870.09		1		870.09		
	5	PL 400x50	8150	1	392.50	1279.55		1		1279.55		
	6	PL 400x50	8150	1	392.50	1279.55		1		1279.55		
	7	PL 420x25	930	4	196.25	306.62		4		306.62		
	8	PL 420x8	930	1	62.80	24.53		1		24.53		
	9	L 100x100x10	430	7	14.90	44.85		7		44.85		
	10	PL 242x12	850	26	94.20	503.80		26		503.80		
						8365.96	1				**8365.96**	
PB-282	11	PL 850x16	9642	1	125.60	1029.38		1		1029.38		
	12	PL 400x50	9642	1	392.50	1513.79		1		1513.79		
	13	PL 400x50	9642	1	392.50	1513.79		1		1513.79		
	14	PL 850x16	8150	1	125.60	870.09		1		870.09		
	15	PL 400x50	8150	1	392.50	1279.55		1		1279.55		
	16	PL 400x50	8150	1	392.50	1279.55		1		1279.55		
	7	PL 420x25	930	4	196.25	306.62		4		306.62		
	8	PL 420x8	930	1	62.80	24.53		1		24.53		
	9	L 100x100x10	430	7	14.90	44.85		7		44.85		
	10	PL 242x12	850	26	94.20	503.80		26		503.80		
	17	L 100x100x10	100	7	14.90	10.43		7		10.43		
	18	L 100x100x10	120	16	14.90	28.61		16		28.61		
						8405.00	1				**8405.00**	
PB-278	19	PL 668x12	7950	1	94.20	500.26		1		500.26		
	20	PL 300x16	7950	1	125.60	299.56		1		299.56		
	21	PL 300x16	7950	1	125.60	299.56		1		299.56		
	22	PL 420x25	680	2	196.25	112.10		2		112.10		
	23	L 100x100x10	430	3	14.90	19.22		3		19.22		
	24	PL 628x12	1063	2	94.20	125.77		2		125.77		
	25	PL 144x12	668	12	94.20	108.74		12		108.74		
						1465.19	1				**1465.19**	
PB-279	26	PL 668x12	5950	1	94.20	374.41		3		1123.22		
	27	PL 300x16	5950	1	125.60	224.20		3		672.59		
	28	PL 300x16	5950	1	125.60	224.20		3		672.59		
	22	PL 420x25	680	2	196.25	112.10		6		336.29		
	29	L 100x100x10	430	3	14.90	19.22		9		57.66		
	30	L 100x100x10	130	3	14.90	5.81		9		17.43		
	25	PL 144x12	668	10	94.20	90.61		30		271.84		
						1050.54	3				**3151.63**	
PB-279A	26	PL 668x12	5950	1	94.20	374.41		1		374.41		
	27	PL 300x16	5950	1	125.60	224.20		1		224.20		
	28	PL 300x16	5950	1	125.60	224.20		1		224.20		
	22	PL 420x25	680	2	196.25	112.10		2		112.10		
	29	L 100x100x10	430	3	14.90	19.22		3		19.22		
	30	L 100x100x10	130	3	14.90	5.81		3		5.81		
	31	PL 638x12	888	2	94.20	106.74		2		106.74		
	25	PL 144x12	668	10	94.20	90.61		10		90.61		
						1157.28	1				**1157.28**	
PB-280	32	PL 668x12	2703	1	94.20	170.09		1		170.09		
	33	PL 300x16	2703	1	125.60	101.85		1		101.85		
	34	PL 300x16	2703	1	125.60	101.85		1		101.85		
	35	PL 598x12	699	1	94.20	39.38		1		39.38		
	23	L 100x100x10	430	1	14.90	6.41		1		6.41		
	25	PL 144x12	668	4	94.20	36.25		4		36.25		
						455.81	1				**455.81**	
PB-283	36	PL 668x12	2703	1	94.20	170.09		1		170.09		
	37	PL 300x16	2703	1	125.60	101.85		1		101.85		
	38	PL 300x16	2703	1	125.60	101.85		1		101.85		
	39	PL 598x12	699	1	94.20	39.38		1		39.38		
	29	L 100x100x10	430	1	14.90	6.41		1		6.41		
	40	L 100x100x10	130	1	14.90	1.94		1		1.94		
	41	L 100x100x10	570	1	14.90	8.49		1		8.49		
	41	L 100x100x10	430	1	14.90	6.41		1		6.41		
	25	PL 144x12	668	4	94.20	36.25		4		36.25		
						472.65	1				**472.65**	
PB-284	42	PL 668x12	7950	1	94.20	500.26		2		1000.52		
	43	PL 300x16	7950	1	125.60	299.56		2		599.11		
	44	PL 300x16	7950	1	125.60	299.56		2		599.11		
	22	PL 420x25	680	2	196.25	112.10		4		224.20		
	29	L 100x100x10	430	3	14.90	19.22		6		38.44		
	30	L 100x100x10	130	3	14.90	5.81		6		11.62		
	45	L 100x100x10	120	8	14.90	14.30		16		28.61		
	25	PL 144x12	668	12	94.20	108.74		24		217.47		
						1359.54	2				**2719.08**	
PB-285	46	ISMB 600	9958	1	123.00	1224.83		1		1224.83		
	47	L 100x100x10	430	2	14.90	12.81		2		12.81		
	48	PL 628x12	1063	2	94.20	125.77		2		125.77		
	45	L 100x100x10	120	7	14.90	12.52		7		12.52		
						1375.93	1				**1375.93**	
PB-286	49	PL 668x12	5950	1	94.20	374.41		1		374.41		
	50	PL 300x16	5950	1	125.60	224.20		1		224.20		
	51	PL 300x16	5950	1	125.60	224.20		1		224.20		
	22	PL 420x25	680	2	196.25	112.10		4		224.20		
	29	L 100x100x10	430	2	14.90	12.81		4		12.81		
	30	L 100x100x10	130	2	14.90	3.87		4		3.87		
	25	PL 144x12	668	12	94.20	108.74		24		108.74		
	45	L 100x100x10	120	6	14.90	10.73		6		10.73		
						1071.05	1				**1071.05**	
PB-287	52	ISMB 200	4386	1	25.40	111.40		1		111.40		
	53	L 100x100x10	120	2	14.90	3.58		2		3.58		
	54	L 100x100x10	130	2	14.90	3.87		2		3.87		
						118.85	1				**118.85**	
PB-288	55	ISMB 600	7958	1	123.00	978.83		3		2936.50		
	47	L 100x100x10	430	2	14.90	12.81		6		38.44		
	54	L 100x100x10	130	5	14.90	9.69		15		29.06		
						1001.33	3				**3004.00**	
PB-288A	55	ISMB 600	7958	1	123.00	978.83		1		978.83		
	47	L 100x100x10	430	2	14.90	12.81		2		12.81		
	56	PL 638x12	888	2	94.20	106.74		2		106.74		
	54	L 100x100x10	130	5	14.90	9.69		5		9.69		
						1108.07	1				**1108.07**	
PB-289	57	PL 668x12	3478	1	94.20	218.86		1		218.86		
	58	PL 300x16	3478	2	125.60	262.10		2		262.10		
	22	PL 420x25	680	2	196.25	112.10		2		112.10		
	25	PL 144x12	668	12	94.20	108.74		12		108.74		
	45	L 100x100x10	120	6	14.90	10.73		6		10.73		
						712.52	1				**712.52**	
PB-290	59	PL 658x12	3835	1	94.20	237.71		1		237.71		
	60	PL 300x16	3835	2	125.60	289.01		2		289.01		
	61	PL 420x25	670	2	196.25	110.45		2		110.45		
	62	L 100x100x10	570	3	14.90	25.48		3		25.48		
	63	PL 144x12	658	4	94.20	35.70		4		35.70		
						698.34	1				**698.34**	

TOTAL WEIGHT 34281.37 KG. = 34.281 T.

BOLT SCHEDULE

ITEM NO.	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	HEX NUT TOTAL NOS. REQUIRED	WEIGHT Weight (kg.)
A1	M24	P	P.C. 8.8	150	264	264	165
A2	M24	P	P.C. 8.8	100	768	768	351.584
A3	M24	P	P.C. 8.8	60	76	76	23.712
					TOTAL WEIGHT=		548.296

ABSTRACT

SL.NO	SECTION	TOTAL WT.	MATL.SPCN
1	L 100x100x10	542.81	IS: 2062-2006 GR-A
2	ISMB 200	111.40	IS: 2062-2006 GR-A
3	ISMB 300	5140.17	IS: 2062-2006 GR-A
4	PL. 8 THK.	49.06	IS: 2062-2006 GR-A
5	PL. 12 THK.	6735.24	IS: 2062-2006 GR-A
6	PL. 16 THK.	8796.75	IS: 2062-2006 GR-A
7	PL. 25 THK.	1732.57	IS: 2062-2006 GR-B
8	PL. 25 THK.	11173.38	IS: 2062-2006 GR-B
TOTAL WEIGHT=		34281.37	

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

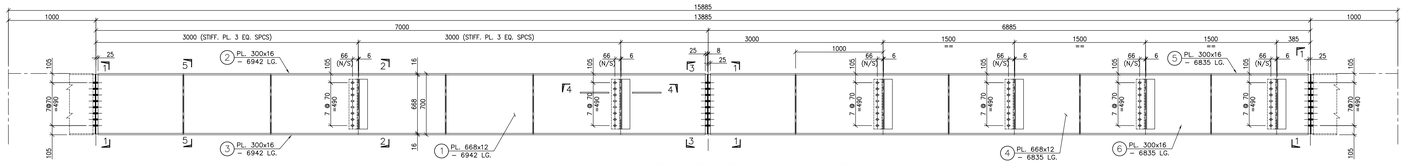
RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO.
0-96132-1-0019
REV. 00

SHEET NO. 01 NO OF SHEETS 01

Sep Fri 27 10:49 2019
This Drawing is printed from Engineering Digital Archive System (EDAS).
Therefore signatures are not essentially required.



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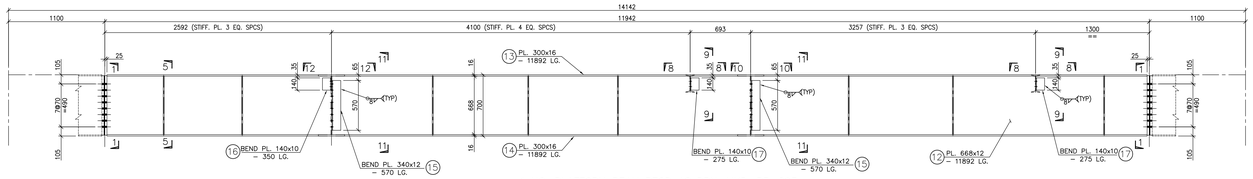

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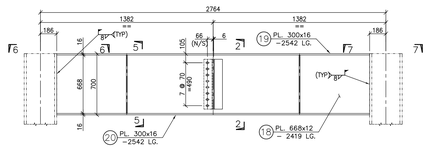

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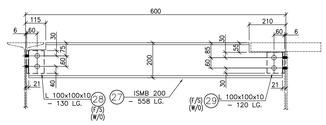

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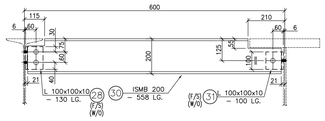

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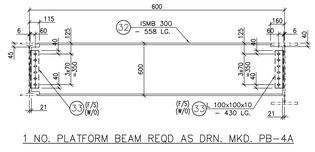

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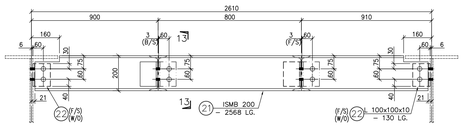

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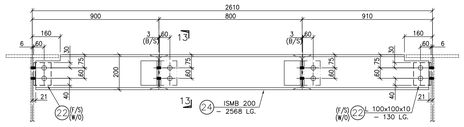

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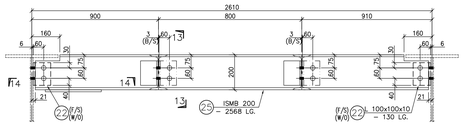

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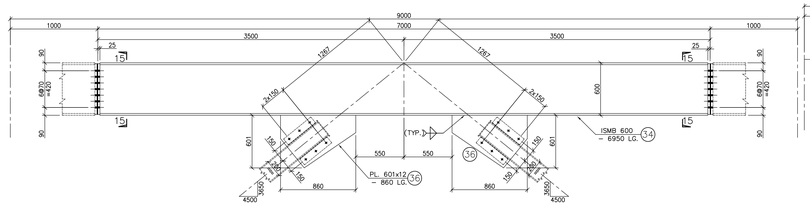

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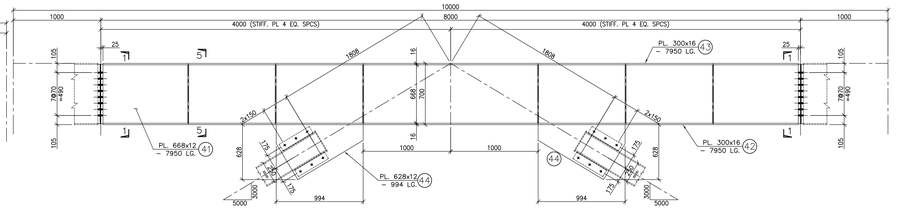
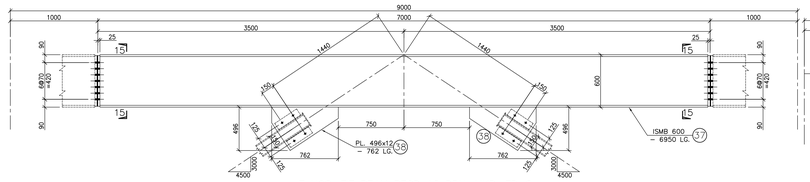
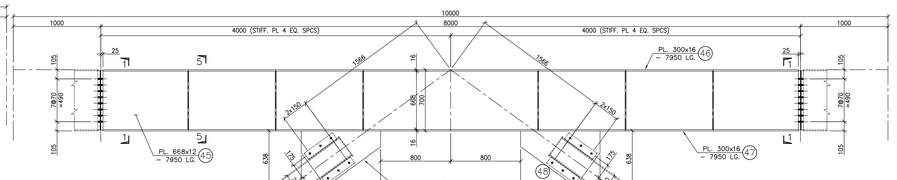


4 NOS. TIE BEAM REQD AS DRN. MKD. TB–4



7 NOS. TIE BEAM REQD AS DRN. MKD. TB–2



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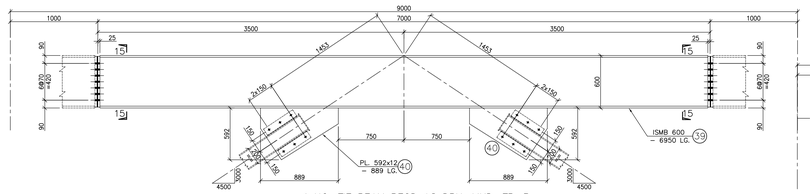

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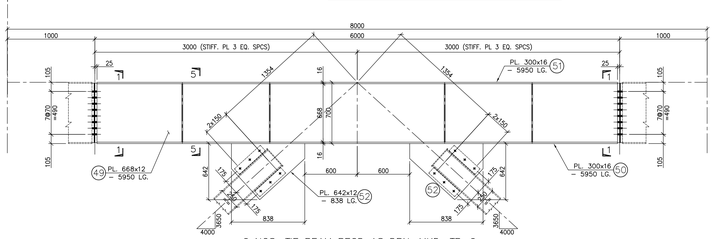

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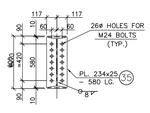
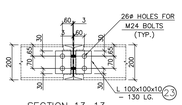


SECTION 15–15



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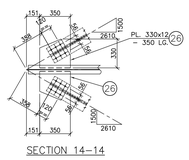
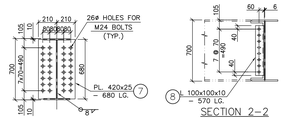
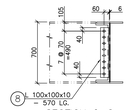


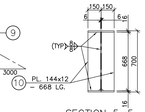
SECTION 14–14



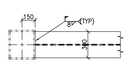
SECTION 1–1 | PLAN 4–4 | SECTION 3–3



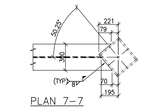
SECTION 2–2



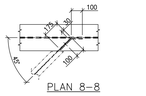
SECTION 5–5



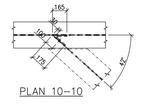
PLAN 6–6



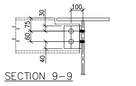
PLAN 7–7



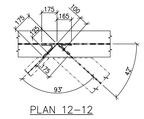
PLAN 8–8



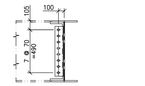
PLAN 10–10



SECTION 9–9



PLAN 12–12



SECTION 11–11

BILL OF MATERIALS

ERECTION MKD.	ITEM NO.	SECTION	LENGTH	Qty FOR ONE ASSEMBLY	UNIT WT. (Kgs.)	WEIGHT FOR ONE ASSEMBLY (Kgs.)	NOS. OF ASSEMBLY	QTY. FOR TOTAL ASSEMBLY	AREA	WEIGHT FOR TOTAL ASSEMBLY (Kgs.)	EREC. MKD. WT.(Kgs.)	REMARKS
PB-291	1	PL 668x12	6942	1	94.20	436.83		1		436.83		
	2	PL 300x16	6942	1	125.60	261.57		1		261.57		
	3	PL 300x16	6942	1	125.60	261.57		1		261.57		
	4	PL 668x12	6835	1	94.20	430.10		1		430.10		
	5	PL 300x16	6835	1	125.60	257.54		1		257.54		
	6	PL 300x16	6835	1	125.60	257.54		1		257.54		
	7	PL 420x25	680	4	196.25	224.20		4		224.20		
	8	L 100x100x10	570	6	14.90	50.96		6		50.96		
	9	PL 294x12	417	2	94.20	23.10		2		23.10		
	10	PL 144x12	668	16	94.20	144.98		16		144.98		
	11	PL 420x8	680	1	62.80	17.94		1		17.94		
						2366.33	1				2366.33	
PB-293	12	PL 668x12	11892	1	94.20	748.31		1		748.31		
	13	PL 300x16	11892	1	125.60	448.09		1		448.09		
	14	PL 300x16	11892	1	125.60	448.09		1		448.09		
	7	PL 420x25	680	2	196.25	112.10		2		112.10		
	15	PL 340x12	570	2	94.20	36.51		2		36.51		
	16	PL 140x10	350	1	78.50	3.85		1		3.85		
	17	PL 140x10	275	2	78.50	6.04		2		6.04		
	10	PL 144x12	668	16	94.20	144.98		16		144.98		
						1947.97	1				1947.97	
PB-292	18	PL 668x12	2419	1	94.20	152.22		1		152.22		
	19	PL 300x16	2542	1	125.60	95.78		1		95.78		
	20	PL 300x16	2542	1	125.60	95.78		1		95.78		
	8	L 100x100x10	570	1	14.90	8.49		1		8.49		
	10	PL 144x12	668	4	94.20	36.25		4		36.25		
						388.52	1				388.52	
PB-294	21	ISMB 200	2568	1	25.40	65.23		1		65.23		
	22	L 100x100x10	130	2	14.90	3.87		2		3.87		
	23	L 100x100x10	130	3	14.90	5.81		3		5.81		
						74.91	1				74.91	
PB-295	24	ISMB 200	2568	1	25.40	65.23		1		65.23		
	22	L 100x100x10	130	2	14.90	3.87		2		3.87		
	23	L 100x100x10	130	4	14.90	7.75		4		7.75		
						76.85	1				76.85	
PB-296	25	ISMB 200	2568	1	25.40	65.23		1		65.23		
	22	L 100x100x10	130	2	14.90	3.87		2		3.87		
	26	PL 330x12	350	2	94.20	21.76		2		21.76		
	23	L 100x100x10	130	4	14.90	7.75		4		7.75		
						98.61	1				98.61	
PB-219B	27	ISMB 200	558	1	25.40	14.17		8		113.39		
	28	L 100x100x10	130	1	14.90	1.94		8		15.50		
	29	L 100x100x10	120	1	14.90	1.79		8		14.30		
						17.90	8				143.19	
PB-221B	30	ISMB 200	558	1	25.40	14.17		8		113.39		
	28	L 100x100x10	130	1	14.90	1.94		8		15.50		
	31	L 100x100x10	100	1	14.90	1.49		8		11.92		
						17.60	8				140.80	
PB-4A	32	ISMB 300	558	1	44.20	24.66		1		24.66		
	33	L 100x100x10	430	1	14.90	6.41		1		6.41		
						31.07	1				31.07	
TB-1	34	ISMB 600	6950	1	123.00	854.85		8		6838.80		
	35	PL 234x25	580	2	196.25	53.27		16		426.16		
	36	PL 601x12	860	2	94.20	97.38		16		779.01		
						1005.50	8				8043.97	
TB-2	37	ISMB 600	6950	1	123.00	854.85		7		5983.95		
	35	PL 234x25	580	2	196.25	53.27		14		372.89		
	38	PL 496x12	762	2	94.20	71.21		14		498.44		
						979.33	7				6855.28	
TB-3	39	ISMB 600	6950	1	123.00	854.85		1		854.85		
	35	PL 234x25	580	2	196.25	53.27		2		53.27		
	40	PL 592x12	889	2	94.20	99.15		2		99.15		
						1007.27	1				1007.27	
TB-4	41	PL 668x12	7950	1	94.20	500.26		4		2001.03		
	42	PL 300x16	7950	1	125.60	299.56		4		1198.22		
	43	PL 300x16	7950	1	125.60	299.56		4		1198.22		
	7	PL 420x25	680	2	196.25	112.10		8		448.39		
	44	PL 628x12	994	2	94.20	117.61		8		470.42		
	10	PL 144x12	668	12	94.20	108.74		48		434.94		
						1437.81	4				5751.24	
TB-5	45	PL 668x12	7950	1	94.20	500.26		4		2001.03		
	46	PL 300x16	7950	1	125.60	299.56		4		1198.22		
	47	PL 300x16	7950	1	125.60	299.56		4		1198.22		
	7	PL 420x25	680	2	196.25	112.10		8		448.39		
	48	PL 638x12	908	2	94.20	109.14		8		436.56		
	10	PL 144x12	668	12	94.20	108.74		48		434.94		
						1429.34	4				5717.38	
TB-6	49	PL 668x12	5950	1	94.20	374.41		2		748.81		
	50	PL 300x16	5950	1	125.60	224.20		2		448.39		
	51	PL 300x16	5950	1	125.60	224.20		2		448.39		
	7	PL 420x25	680	2	196.25	112.10		4		224.20		
	52	PL 642x12	838	2	94.20	101.36		4		202.72		
	10	PL 144x12	668	8	94.20	72.49		16		144.98		
						1108.75	2				2217.49	
TOTAL WEIGHT 34860.89 KG. = 34.861 T.												

ABSTRACT

SL.NO	SECTION	TOTAL.WT.	MATL.SPCN
1	L 100x100x10	156.00	IS: 2062-2006 GR-A
2	ISMB 200	422.45	IS: 2062-2006 GR-A
3	ISMB 300	24.66	IS: 2062-2006 GR-A
4	ISMB 600	13677.60	IS: 2062-2006 GR-A
5	PL. 8 THK.	17.94	IS: 2062-2006 GR-A
6	PL. 10 THK.	9.89	IS: 2062-2006 GR-A
7	PL. 12 THK.	10427.09	IS: 2062-2006 GR-A
8	PL. 16 THK.	7815.66	IS: 2062-2006 GR-A
9	PL. 25 THK.	2309.60	IS: 2062-2006 GR-B
TOTAL WEIGHT=		34860.89	

ITEM NO.	HEX BOLTS					HEX NUT	WEIGHT
	SIZE	BOLT TYPE	BOLT CLASS	NOMINAL LENGTH	TOTAL NOS.	TOTAL NOS. REQUIRED	Weight (kg.)
A1	M24	P	P.C. 8.8	140	1824	1824	1072.512
B1	M24	P	P.C. 8.8	90	164	164	70.028
					TOTAL WIGHT=		1142.54

NOTES:

1. FOR FABRICATION DETAILS AND MARKING REFER DRG. 09613210001

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

भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE
DRN.	KARTHIK		23.09.19
CHD.	SAMPATH		
APPD.	SCJ		

NO.OF VAR.

DEPT. OR
CODE 4430
SCALE NTS
WEIGHT (KG)
REF. TO ASSY DRG.
ITEM NO.
NO.OF ITEMS

RESTRICTED USE

TITLE
FLY ASH PIPE RACK U–V ROW
DETAIL OF PLATFROM BEAM

DRAWING NO. 0-96132-1-0020
REV. 00
SHEET NO. 01
NO OF SHEETS 01

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