ANAMIS 230/63 KV SUBSTATIION

63KV GANTRY AND GUARD MAST

STEEL STRUCTURE DRAWING

REV.	DATE	DESCRIPTION
C		
B		
A		
Z	1405.03	FIRST ISSUE

DRAWN	PARS DAKAL	1405.03	SCALE:	SIZE:	SHEET: 0-10
DESIGNED	S.SALEHABADI	1405.03	SUBJECT: ANAMIS 230/63 KV SUBSTATIION 63KV GANTRY AND GUARD MAST STEEL STRUCTURE DRAWING		
CHECKED	SH.SHOJA	1405.03			
APPROVED	M.DANESHPOU	1405.03			
CONTRACT NO:					
PROJECT NO:			DRAWING NO:	SIRIK/02/230/63/122	

CONSULTANT:	CONTRACTOR:	EMPLOYER:
MONIRAN	AZARSKSH ENERGY MOHAM SHARGH	HORMOZGAN REGIONAL ELECTRIC.CO

DRAWING LIST

NO.SHEET	SUBJECT	REV			
		Z	A	B	C
A-00	COVER SHEET	√			
A-01	INDEX	√			
A-02	LOCATION	√			
A-03	SECTION A1-A1	√			
A-04	SECTION B1-B1	√			
A-05	DRAWING OF GANTRY COLUMN TYPE 6SCG1-a	√			
A-06	DRAWING OF GANTRY COLUMN TYPE 6SCG1-b	√			
A-07	DRAWING OF GANTRY COLUMN TYPE 6SCG2	√			
A-08	DRAWING OF GANTRY COLUMN TYPE 6SCG3,6SCG4	√			
A-09	DRAWING OF GANTRY BEAM TYPE 6SBG1	√			
A-10	DRAWING OF GANTRY BEAM TYPE 6SBG2	√			
A-11	DRAWING OF GANTRY BEAM TYPE 6SBG3	√			

REV	Description.	DATE
C		
B		
A		
Z	FIRST ISSUE	1405.05

Consultant: MONIRAN

Employer: HORMOZGAN REGIONAL ELECTRIC.CO

Contractor: AZARSKSH ENERGY MOHAM SHARGH

	Name	Date
DRAWN		1405.05
DESIGNED	S.SALEHABADI	1405.05
CHECKED	SH.SHOJA	1405.05
APPROVED	M.DANESHPOU	1405.05

Title: INDEX

DWG NO: SIRIK/02/230/63/122

Project: ANAMIS 230/63 KV SUBSTATION

Project No: -------

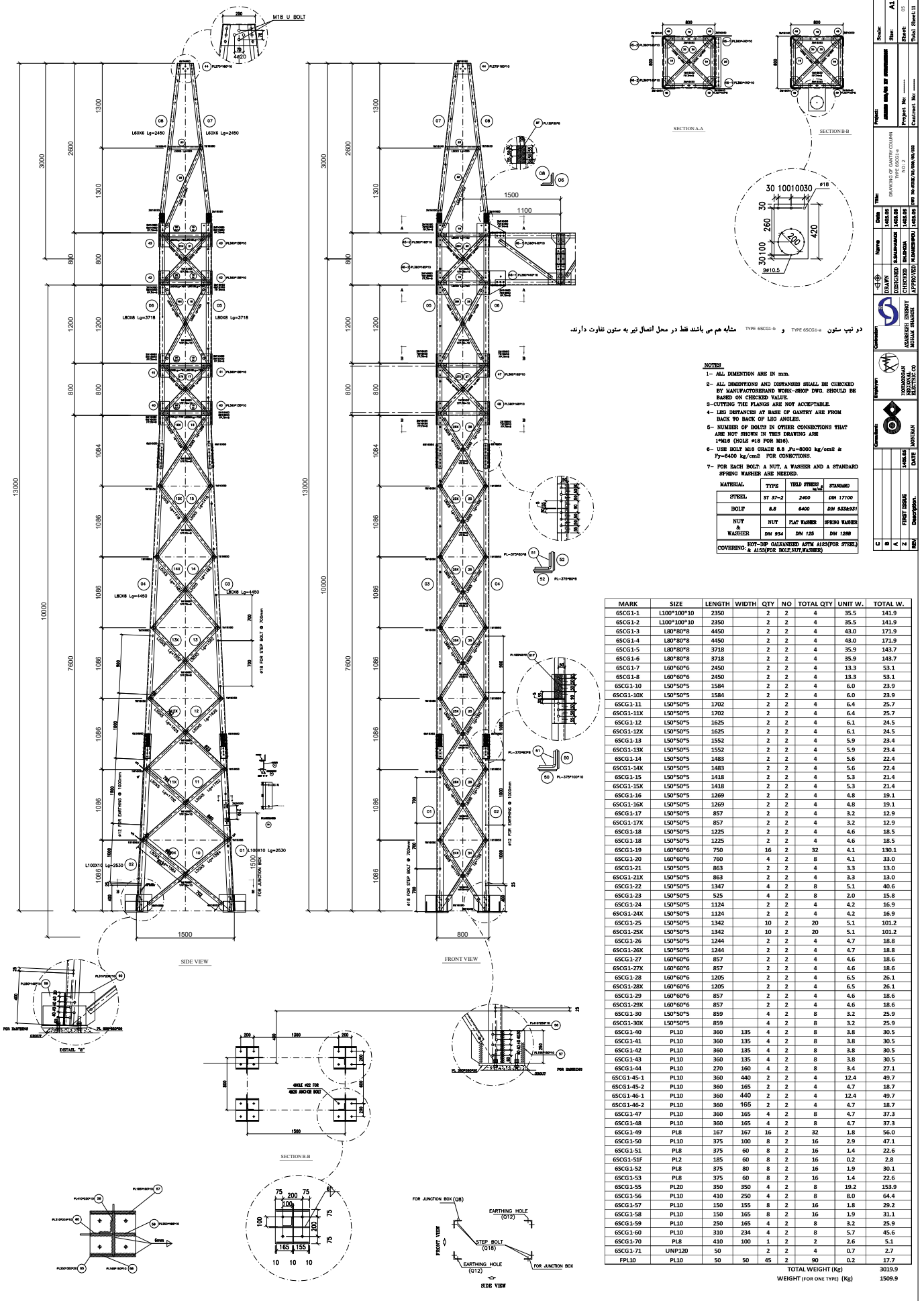
Cantract No: ------

Scale:

Size: A3

Sheet: 01

Total Sheet: 11



دو تیپ ستون TYPE 6SCG1-a و TYPE 6SCG1-b مشابه هم می باشند فقط در محل اتصال تیر به ستون تفاوت دارند.

NOTES:

1- ALL DIMENTION ARE IN mm.
2- ALL DIMENTIONS AND DISTANSES SHALL BE CHECKED BY MANUFACTORERAND WORK-SHOP DWG. SHOULD BE BASED ON CHECKED VALUE.
3-CUTTING THE FLANGS ARE NOT ACCEPTABLE.
4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.
5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1*M16 (HOLE ø18 FOR M16).
6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.
7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING:	HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & A153(FOR BOLT,NUT,WASHER)		

MARK	SIZE	LENGTH	WIDTH	QTY	NO	TOTAL QTY	UNIT W.	TOTAL W.
6SCG1-1	L100*100*10	2350		2	2	4	35.5	141.9
6SCG1-2	L100*100*10	2350		2	2	4	35.5	141.9
6SCG1-3	L80*80*8	4450		2	2	4	43.0	171.9
6SCG1-4	L80*80*8	4450		2	2	4	43.0	171.9
6SCG1-5	L80*80*8	3718		2	2	4	35.9	143.7
6SCG1-6	L80*80*8	3718		2	2	4	35.9	143.7
6SCG1-7	L60*60*6	2450		2	2	4	13.3	53.1
6SCG1-8	L60*60*6	2450		2	2	4	13.3	53.1
6SCG1-10	L50*50*5	1584		2	2	4	6.0	23.9
6SCG1-10X	L50*50*5	1584		2	2	4	6.0	23.9
6SCG1-11	L50*50*5	1702		2	2	4	6.4	25.7
6SCG1-11X	L50*50*5	1702		2	2	4	6.4	25.7
6SCG1-12	L50*50*5	1625		2	2	4	6.1	24.5
6SCG1-12X	L50*50*5	1625		2	2	4	6.1	24.5
6SCG1-13	L50*50*5	1552		2	2	4	5.9	23.4
6SCG1-13X	L50*50*5	1552		2	2	4	5.9	23.4
6SCG1-14	L50*50*5	1483		2	2	4	5.6	22.4
6SCG1-14X	L50*50*5	1483		2	2	4	5.6	22.4
6SCG1-15	L50*50*5	1418		2	2	4	5.3	21.4
6SCG1-15X	L50*50*5	1418		2	2	4	5.3	21.4
6SCG1-16	L50*50*5	1269		2	2	4	4.8	19.1
6SCG1-16X	L50*50*5	1269		2	2	4	4.8	19.1
6SCG1-17	L50*50*5	857		2	2	4	3.2	12.9
6SCG1-17X	L50*50*5	857		2	2	4	3.2	12.9
6SCG1-18	L50*50*5	1225		2	2	4	4.6	18.5
6SCG1-18	L50*50*5	1225		2	2	4	4.6	18.5
6SCG1-19	L60*60*6	750		16	2	32	4.1	130.1
6SCG1-20	L60*60*6	760		4	2	8	4.1	33.0
6SCG1-21	L50*50*5	863		2	2	4	3.3	13.0
6SCG1-21X	L50*50*5	863		2	2	4	3.3	13.0
6SCG1-22	L50*50*5	1347		4	2	8	5.1	40.6
6SCG1-23	L50*50*5	525		4	2	8	2.0	15.8
6SCG1-24	L50*50*5	1124		2	2	4	4.2	16.9
6SCG1-24X	L50*50*5	1124		2	2	4	4.2	16.9
6SCG1-25	L50*50*5	1342		10	2	20	5.1	101.2
6SCG1-25X	L50*50*5	1342		10	2	20	5.1	101.2
6SCG1-26	L50*50*5	1244		2	2	4	4.7	18.8
6SCG1-26X	L50*50*5	1244		2	2	4	4.7	18.8
6SCG1-27	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-27X	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-28	L60*60*6	1205		2	2	4	6.5	26.1
6SCG1-28X	L60*60*6	1205		2	2	4	6.5	26.1
6SCG1-29	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-29X	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-30	L50*50*5	859		4	2	8	3.2	25.9
6SCG1-30X	L50*50*5	859		4	2	8	3.2	25.9
6SCG1-40	PL10	360	135	4	2	8	3.8	30.5
6SCG1-41	PL10	360	135	4	2	8	3.8	30.5
6SCG1-42	PL10	360	135	4	2	8	3.8	30.5
6SCG1-43	PL10	360	135	4	2	8	3.8	30.5
6SCG1-44	PL10	270	160	4	2	8	3.4	27.1
6SCG1-45-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-45-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-46-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-46-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-47	PL10	360	165	4	2	8	4.7	37.3
6SCG1-48	PL10	360	165	4	2	8	4.7	37.3
6SCG1-49	PL8	167	167	16	2	32	1.8	56.0
6SCG1-50	PL10	375	100	8	2	16	2.9	47.1
6SCG1-51	PL8	375	60	8	2	16	1.4	22.6
6SCG1-51F	PL2	185	60	8	2	16	0.2	2.8
6SCG1-52	PL8	375	80	8	2	16	1.9	30.1
6SCG1-53	PL8	375	60	8	2	16	1.4	22.6
6SCG1-55	PL20	350	350	4	2	8	19.2	153.9
6SCG1-56	PL10	410	250	4	2	8	8.0	64.4
6SCG1-57	PL10	150	155	8	2	16	1.8	29.2
6SCG1-58	PL10	150	165	8	2	16	1.9	31.1
6SCG1-59	PL10	250	165	4	2	8	3.2	25.9
6SCG1-60	PL10	310	234	4	2	8	5.7	45.6
6SCG1-70	PL8	410	100	1	2	2	2.6	5.1
6SCG1-71	UNP120	50		2	2	4	0.7	2.7
FPL10	PL10	50	50	45	2	90	0.2	17.7
						TOTAL WEIGHT (Kg)		3019.9
						WEIGHT (FOR ONE TYPE) (Kg)		1509.9

REV.	Description.	DATE
C		
B		
A	FIRST ISSUE	1400.05
2		

Consultant: MONTAHAN

Employer: IRANIAN MINISTRY OF ELECTRIC.CO

Contractor: AZARBAYEJAN ENSHAAT MOGHAM SHARGH

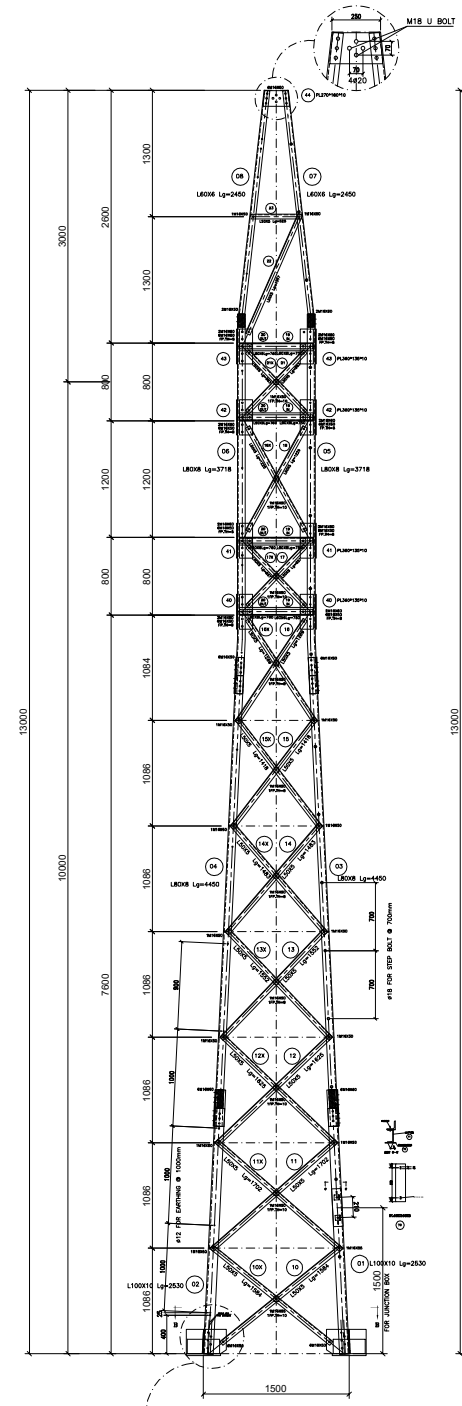
	Name	Date
DRAWN		1400.05
DESIGNED	S.SALEHIMAGH	1400.05
CHECKED	M.MONA	1400.05
APPROVED	M.MOHAMMADI	1400.05

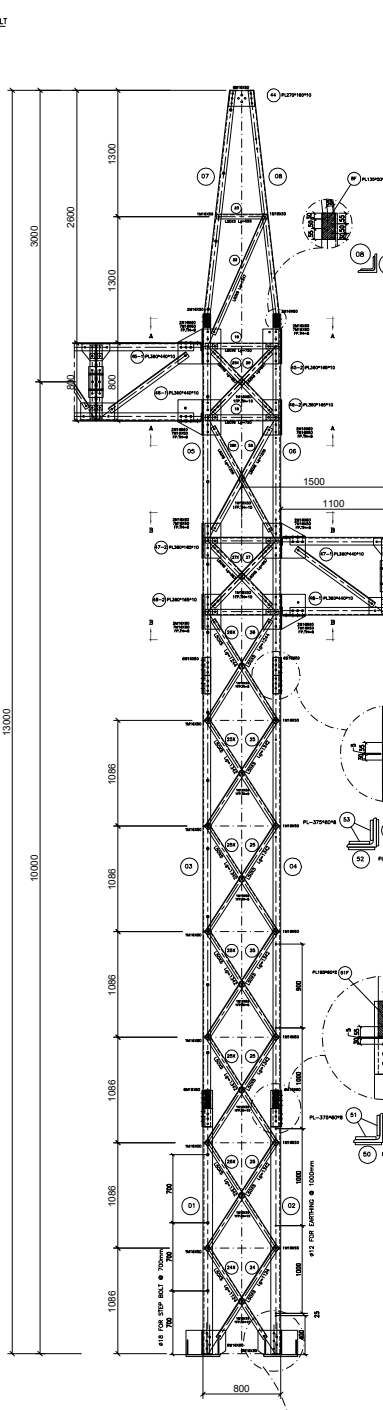
Title: DRAWING OF GANTRY COLUMN TYPE 6SCG1-a NO: 2

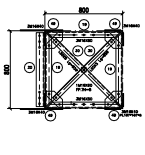
Project: ..... Project No: ..... Contract No: .....

Scale: Size: A1 Sheet: 05 Total Sheet: 11

DWG. NO: 6SCG1-a



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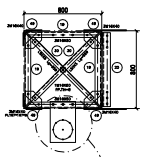
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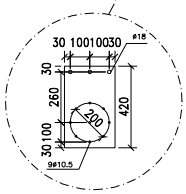

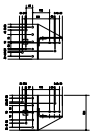

دو تیپ ستون TYPE 6SCG1-a و TYPE 6SCG1-b مشابه هم می باشند فقط در محل اتصال تیر به ستون تفاوت دارند.

NOTES

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4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1*M16 (HOLE #18 FOR M16).

6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING:	HOT-DIP GALVANIZED ASTM A153(FOR STEEL) & AISI(FOR BOLT,NUT,WASHER)		

MARK	SIZE	LENGTH	WIDTH	QTY	NO	TOTAL QT	UNIT W.	TOTAL W.
6SCG1-1	L100*100*10	2350		2	2	4	35.5	141.9
6SCG1-2	L100*100*10	2350		2	2	4	35.5	141.9
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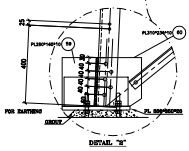
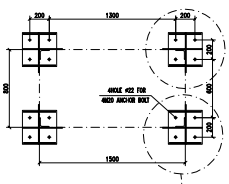
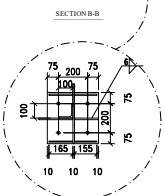
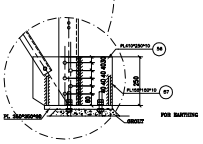
6SCG1-4	L80*80*8	4450		2	2	4	43.0	171.9
6SCG1-5	L80*80*8	3718		2	2	4	35.9	143.7
6SCG1-6	L80*80*8	3718		2	2	4	35.9	143.7
6SCG1-7	L60*60*6	2450		2	2	4	13.3	53.1
6SCG1-8	L60*60*6	2450		2	2	4	13.3	53.1
6SCG1-10	L50*50*5	1584		2	2	4	6.0	23.9
6SCG1-10X	L50*50*5	1584		2	2	4	6.0	23.9
6SCG1-11	L50*50*5	1702		2	2	4	6.4	25.7
6SCG1-11X	L50*50*5	1702		2	2	4	6.4	25.7
6SCG1-12	L50*50*5	1625		2	2	4	6.1	24.5
6SCG1-12X	L50*50*5	1625		2	2	4	6.1	24.5
6SCG1-13	L50*50*5	1552		2	2	4	5.9	23.4
6SCG1-13X	L50*50*5	1552		2	2	4	5.9	23.4
6SCG1-14	L50*50*5	1483		2	2	4	5.6	22.4
6SCG1-14X	L50*50*5	1483		2	2	4	5.6	22.4
6SCG1-15	L50*50*5	1418		2	2	4	5.3	21.4
6SCG1-15X	L50*50*5	1418		2	2	4	5.3	21.4
6SCG1-16	L50*50*5	1269		2	2	4	4.8	19.1
6SCG1-16X	L50*50*5	1269		2	2	4	4.8	19.1
6SCG1-17	L50*50*5	857		2	2	4	3.2	12.9
6SCG1-17X	L50*50*5	857		2	2	4	3.2	12.9
6SCG1-18	L50*50*5	1225		2	2	4	4.6	18.5
6SCG1-18	L50*50*5	1225		2	2	4	4.6	18.5
6SCG1-19	L60*60*6	750		16	2	32	4.1	130.1
6SCG1-20	L60*60*6	760		4	2	8	4.1	33.0
6SCG1-21	L50*50*5	863		2	2	4	3.3	13.0
6SCG1-21X	L50*50*5	863		2	2	4	3.3	13.0
6SCG1-22	L50*50*5	1347		4	2	8	5.1	40.6
6SCG1-23	L50*50*5	525		4	2	8	2.0	15.8
6SCG1-24	L50*50*5	1124		2	2	4	4.2	16.9
6SCG1-24X	L50*50*5	1124		2	2	4	4.2	16.9
6SCG1-25	L50*50*5	1342		10	2	20	5.1	101.2
6SCG1-25X	L50*50*5	1342		10	2	20	5.1	101.2
6SCG1-26	L50*50*5	1244		2	2	4	4.7	18.8
6SCG1-26X	L50*50*5	1244		2	2	4	4.7	18.8
6SCG1-27	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-27X	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-28	L60*60*6	1205		2	2	4	6.5	26.1
6SCG1-28X	L60*60*6	1205		2	2	4	6.5	26.1
6SCG1-29	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-29X	L60*60*6	857		2	2	4	4.6	18.6
6SCG1-30	L50*50*5	859		4	2	8	3.2	25.9
6SCG1-30X	L50*50*5	859		4	2	8	3.2	25.9
6SCG1-40	PL10	360	135	4	2	8	3.8	30.5
6SCG1-41	PL10	360	135	4	2	8	3.8	30.5
6SCG1-42	PL10	360	135	4	2	8	3.8	30.5
6SCG1-43	PL10	360	135	4	2	8	3.8	30.5
6SCG1-44	PL10	270	160	4	2	8	3.4	27.1
6SCG1-45-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-45-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-46-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-46-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-47-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-47-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-48-1	PL10	360	440	2	2	4	12.4	49.7
6SCG1-48-2	PL10	360	165	2	2	4	4.7	18.7
6SCG1-49	PL8	167	167	16	2	32	1.8	56.0
6SCG1-50	PL10	375	100	8	2	16	2.9	47.1
6SCG1-51	PL8	375	60	8	2	16	1.4	22.6
6SCG1-51F	PL2	185	60	8	2	16	0.2	2.8
6SCG1-52	PL8	375	80	8	2	16	1.9	30.1
6SCG1-53	PL8	375	60	8	2	16	1.4	22.6
6SCG1-55	PL20	350	350	4	2	8	19.2	153.9
6SCG1-56	PL10	410	250	4	2	8	8.0	64.4
6SCG1-57	PL10	150	155	8	2	16	1.8	29.2
6SCG1-58	PL10	150	165	8	2	16	1.9	31.1
6SCG1-59	PL10	250	165	4	2	8	3.2	25.9
6SCG1-60	PL10	310	234	4	2	8	5.7	45.6
6SCG1-70	PL8	410	100	1	2	2	2.6	5.1
6SCG1-71	UNP120	50		2	2	4	0.7	2.7
FPL10	PL10	50	50	45	2	90	0.2	17.7
						TOTAL WEIGHT (Kg)		3082.0
						WEIGHT (FOR ONE TYPE) (Kg)		1541.0

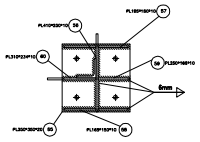


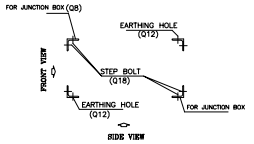


SECTION B-B









Scale:	A1
Size:	
Sheet:	05
Total Sheet:	11

Project: [redacted]

Project No: ------

Contract No: ------

Title: DRAWING OF GANTRY COLUMN TYPE 6SCG1-b NO: 2

DWG. NO: 6SCG/05/086/00/102

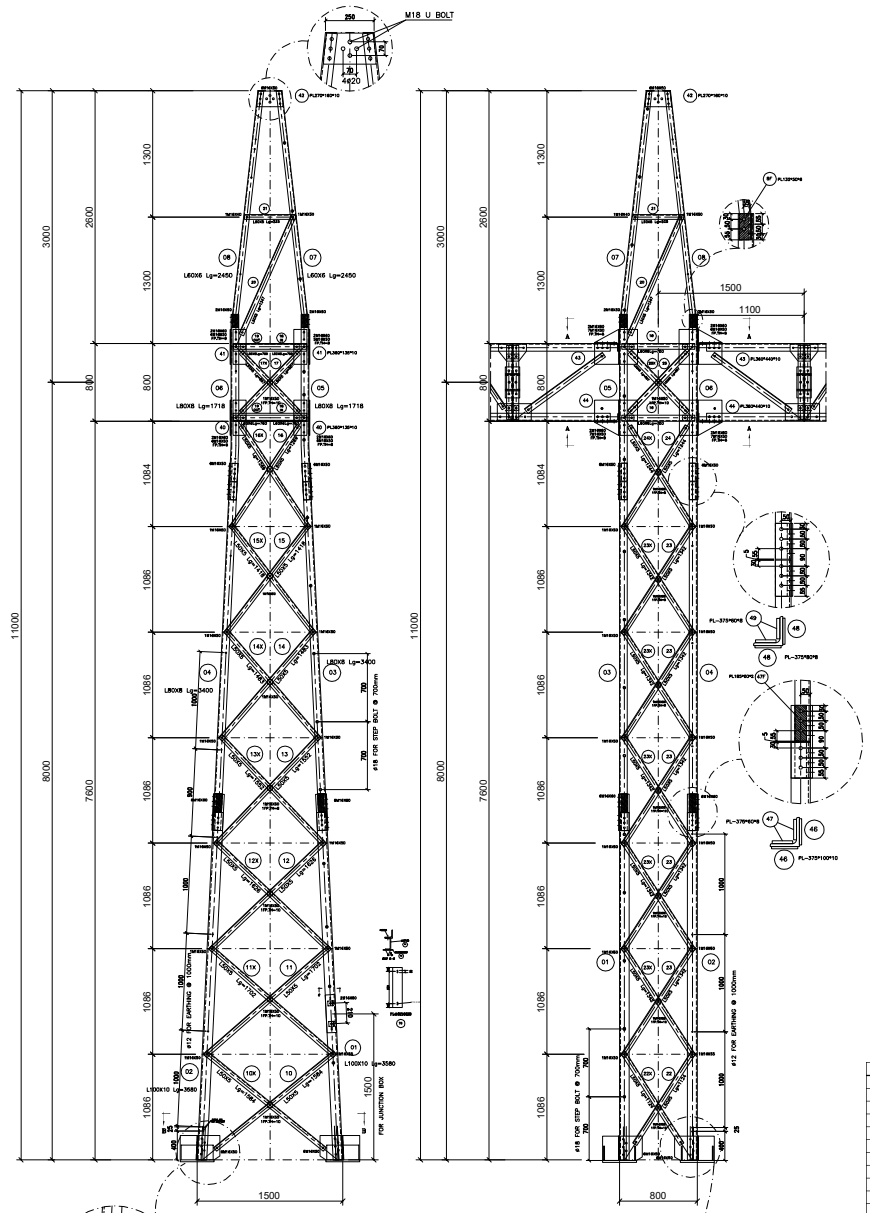
	Name	Date
DRAWN	S.SALEHVAHAB	1402.05
DESIGNED		1402.05
CHECKED	M.HONDA	1402.05
APPROVED	M.KAMKARPOU	1402.05

Contractor: AZARNISH ENERGY MOEAM SHARGH

Employer: IRANMOKRAN DEVELOPMENT ELECTRIC CO

Consultant: MONTAN

REV.	Description.	DATE
A	FIRST ISSUE	1402.05
B		
C		



NOTES:

1- ALL DIMENTION ARE IN mm.

2- ALL DIMENTIONS AND DISTANSES SHALL BE CHECKED BY MANUFACTORSBAND WORK-SHOP DWG. SHOULD BE BASED ON CHECKED VALUE.

3-CUTTING THE FLANGS ARE NOT ACCEPTABLE.

4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1"M16 (HOLE ø18 FOR M16).

6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING	HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & AISI(FOR BOLT,NUT,WASHER)		

MARK	SIZE	LENGTH	WIDTH	QTY	TOTAL QTY	UNIT W.	TOTAL W.
6SCG2-1	L100*100*10	3580		2	16	54.1	864.9
6SCG2-2	L100*100*10	3580		2	16	54.1	864.9
6SCG2-3	L80*80*8	3400		2	16	32.8	525.5
6SCG2-4	L80*80*8	3400		2	16	32.8	525.5
6SCG2-5	L80*80*8	1718		2	16	16.6	265.5
6SCG2-6	L80*80*8	1718		2	16	16.6	265.5
6SCG2-7	L60*60*6	2450		2	16	13.3	212.5
6SCG2-8	L60*60*6	2450		2	16	13.3	212.5
6SCG2-10	L50*50*5	1584		2	16	6.0	95.5
6SCG2-10X	L50*50*5	1584		2	16	6.0	95.5
6SCG2-11	L50*50*5	1702		2	16	6.4	102.7
6SCG2-11X	L50*50*5	1702		2	16	6.4	102.7
6SCG2-12	L50*50*5	1625		2	16	6.1	98.0
6SCG2-12X	L50*50*5	1625		2	16	6.1	98.0
6SCG2-13	L50*50*5	1552		2	16	5.9	93.6
6SCG2-13X	L50*50*5	1552		2	16	5.9	93.6
6SCG2-14	L50*50*5	1483		2	16	5.6	89.5
6SCG2-14X	L50*50*5	1483		2	16	5.6	89.5
6SCG2-15	L50*50*5	1418		2	16	5.3	85.5
6SCG2-15X	L50*50*5	1418		2	16	5.3	85.5
6SCG2-16	L50*50*5	1269		2	16	4.8	76.5
6SCG2-16X	L50*50*5	1269		2	16	4.8	76.5
6SCG2-17	L50*50*5	857		2	16	3.2	51.7
6SCG2-17X	L50*50*5	857		2	16	3.2	51.7
6SCG2-18	L60*60*6	750		8	64	4.1	260.2
6SCG2-19	L60*60*6	760		4	32	4.1	131.8
6SCG2-20	L50*50*5	1347		4	32	5.1	162.5
6SCG2-21	L50*50*5	525		4	32	2.0	63.3
6SCG2-22	L50*50*5	1124		2	16	4.2	67.8
6SCG2-22X	L50*50*5	1124		2	16	4.2	67.8
6SCG2-23	L50*50*5	1342		10	80	5.1	404.7
6SCG2-23X	L50*50*5	1342		10	80	5.1	404.7
6SCG2-24	L50*50*5	1244		2	16	4.7	75.0
6SCG2-24X	L50*50*5	1244		2	16	4.7	75.0
6SCG2-25	L60*60*6	857		2	16	4.6	74.3
6SCG2-25X	L60*60*6	857		2	16	4.6	74.3
6SCG2-26	L50*50*5	859		2	16	3.2	51.8
6SCG2-26X	L50*50*5	859		2	16	3.2	51.8
6SCG2-40	PL10	360	135	4	32	3.8	122.1
6SCG2-41	PL10	360	135	4	32	3.8	122.1
6SCG2-42	PL10	270	160	4	32	3.4	108.5
6SCG2-43	PL10	360	440	4	32	12.4	397.9
6SCG2-44	PL10	360	440	4	32	12.4	397.9
6SCG2-45	PL8	167	167	8	64	1.8	112.1
6SCG2-46	PL10	375	100	8	64	2.9	188.4
6SCG2-47	PL8	375	60	8	64	1.4	90.4
6SCG2-47F	PL2	185	60	8	64	0.2	11.2
6SCG2-48	PL8	375	80	8	64	1.9	120.6
6SCG2-49	PL8	375	60	8	64	1.4	90.4
6SCG2-55	PL20	350	350	4	32	19.2	615.4
6SCG2-56	PL10	410	250	4	32	8.0	257.5
6SCG2-57	PL10	150	155	8	64	1.8	116.8
6SCG2-58	PL10	150	165	8	64	1.9	124.3
6SCG2-59	PL10	250	165	4	32	3.2	103.6
6SCG2-60	PL10	310	234	4	32	5.7	182.2
6SCG2-70	PL8	500	100	1	8	3.1	25.1
6SCG2-71	UNP120	50		2	16	0.7	10.7
6SCG2-PL10	PL10	50	50	45	360	0.2	70.7
					TOTAL WEIGHT (Kg)		10356.2
					WEIGHT (FOR ONE TYPE) (Kg)		1294.5

REV.	Description.	DATE
C		
B		
A		
2	FIRST ISSUE	1400.05

Consultant: MOHSEAN

Employer: IRANIAN OFFSHORE ENGINEERING & CONSTRUCTION CO.

Contractor: AZARNIRUSH ENERGY MOBIAM SHARGH

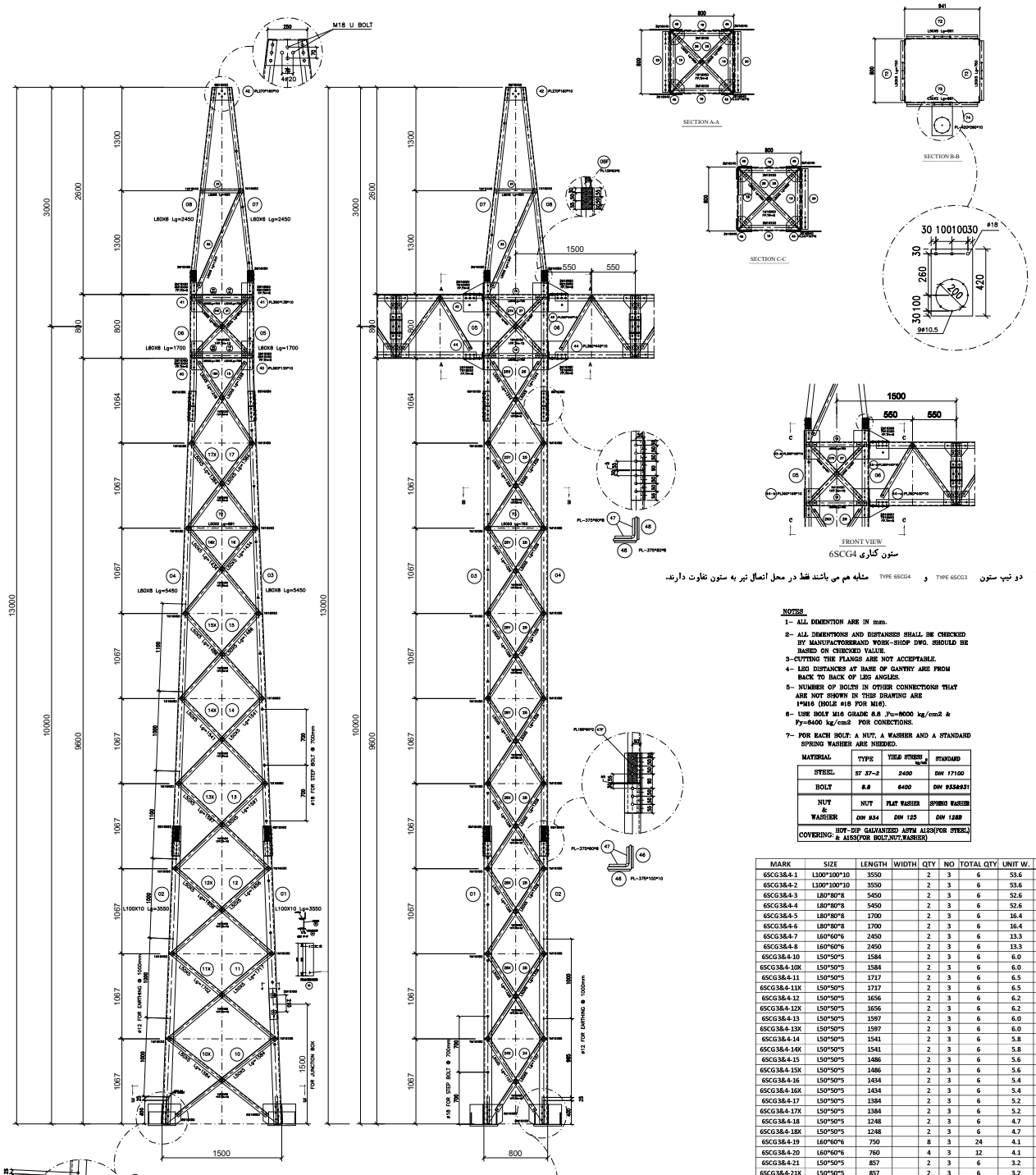
DRAWN: S.SALEHVARAZ 1400.05
DESIGNED: S.SALEHVARAZ 1400.05
CHECKED: M.KHOSHROU 1400.05
APPROVED: M.KHOSHROU 1400.05

Title: DRAWING OF GANTRY COLUMN WITH BRACING NO.8

Project: ..... PHASE 6 ..... Project No: ..... Contract No: .....

Scale: Size: A1 Sheet: 07 Total Sheet: 11

DWG. NO: 6SCG2/08/000/001/02



ستون کناری 6SCG4

دو تیپ ستون TYPE 6SCG3 و TYPE 6SCG4 مشابه هم می باشند فقط در محل اتصال تیر به ستون تفاوت دارند.

NOTES

1- ALL DIMENTION ARE IN mm.

2- ALL DIMENTIONS AND DISTANSES SHALL BE CHECKED BY MANUFACTORER AND WORK-SHOP DWG. SHOULD BE BASED ON CHECKED VALUE.

3-CUTTING THE FLANGS ARE NOT ACCEPTABLE.

4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1"M16 (HOLE #18 FOR M16).

6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT, A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING:	HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & A153(FOR BOLT,NUT,WASHER)		

MARK	SIZE	LENGTH	WIDTH	QTY	NO	TOTAL QTY	UNIT W.	TOTAL W.
6SCG3&4-1	L100*100*10	3550		2	3	6	53.6	321.6
6SCG3&4-2	L100*100*10	3550		2	3	6	53.6	321.6
6SCG3&4-3	L80*80*8	5450		2	3	6	52.6	315.9
6SCG3&4-4	L80*80*8	5450		2	3	6	52.6	315.9
6SCG3&4-5	L80*80*8	1700		2	3	6	16.4	98.5
6SCG3&4-6	L80*80*8	1700		2	3	6	16.4	98.5
6SCG3&4-7	L60*60*6	2450		2	3	6	13.3	79.7
6SCG3&4-8	L60*60*6	2450		2	3	6	13.3	79.7
6SCG3&4-10	L50*50*5	1584		2	3	6	6.0	35.8
6SCG3&4-10K	L50*50*5	1584		2	3	6	6.0	35.8
6SCG3&4-11	L50*50*5	1717		2	3	6	6.5	38.8
6SCG3&4-11K	L50*50*5	1717		2	3	6	6.5	38.8
6SCG3&4-12	L50*50*5	1656		2	3	6	6.2	37.5
6SCG3&4-12K	L50*50*5	1656		2	3	6	6.2	37.5
6SCG3&4-13	L50*50*5	1597		2	3	6	6.0	36.1
6SCG3&4-13K	L50*50*5	1597		2	3	6	6.0	36.1
6SCG3&4-14	L50*50*5	1541		2	3	6	5.8	34.9
6SCG3&4-14K	L50*50*5	1541		2	3	6	5.8	34.9
6SCG3&4-15	L50*50*5	1486		2	3	6	5.6	33.6
6SCG3&4-15K	L50*50*5	1486		2	3	6	5.6	33.6
6SCG3&4-16	L50*50*5	1434		2	3	6	5.4	32.4
6SCG3&4-16K	L50*50*5	1434		2	3	6	5.4	32.4
6SCG3&4-17	L50*50*5	1384		2	3	6	5.2	31.3
6SCG3&4-17K	L50*50*5	1384		2	3	6	5.2	31.3
6SCG3&4-18	L50*50*5	1248		2	3	6	4.7	28.2
6SCG3&4-18K	L50*50*5	1248		2	3	6	4.7	28.2
6SCG3&4-19	L60*60*6	750		8	3	24	4.1	97.6
6SCG3&4-20	L60*60*6	760		4	3	12	4.1	49.4
6SCG3&4-21	L50*50*5	857		2	3	6	3.2	19.4
6SCG3&4-21K	L50*50*5	857		2	3	6	3.2	19.4
6SCG3&4-22	L50*50*5	1347		4	3	12	5.1	60.9
6SCG3&4-23	L50*50*5	525		4	3	12	2.0	23.8
6SCG3&4-24	L50*50*5	1107		2	3	6	4.2	25.0
6SCG3&4-24K	L50*50*5	1107		2	3	6	4.2	25.0
6SCG3&4-25	L60*60*6	1326		14	3	42	7.2	301.9
6SCG3&4-25K	L60*60*6	1326		14	3	42	7.2	301.9
6SCG3&4-26	L50*50*5	1244		2	3	6	4.7	28.1
6SCG3&4-26K	L50*50*5	1244		2	3	6	4.7	28.1
6SCG3&4-27	L60*60*6	857		2	3	6	4.6	27.9
6SCG3&4-27K	L60*60*6	857		2	3	6	4.6	27.9
6SCG3&4-28	L50*50*5	859		4	3	12	3.2	38.9
6SCG3&4-40	PL10	360	135	4	3	12	3.8	45.8
6SCG3&4-41	PL10	360	135	4	3	12	3.8	45.8
6SCG3&4-42	PL10	270	160	4	3	12	3.4	40.7
6SCG3-43	PL10	360	440	4	1	4	12.4	49.7
6SCG4-43-a	PL10	360	440	2	2	4	12.4	49.7
6SCG4-43-b	PL10	360	165	2	2	4	4.7	18.7
6SCG3-44	PL10	360	440	4	1	4	12.4	49.7
6SCG4-44-a	PL10	360	440	2	2	4	12.4	49.7
6SCG4-44-b	PL10	360	165	2	2	4	4.7	18.7
6SCG3&4-45	PL8	167	167	8	3	24	1.8	42.0
6SCG3&4-46	PL10	375	100	8	3	24	2.9	70.7
6SCG3&4-47	PL8	375	60	8	3	24	1.4	33.9
6SCG3&4-47F	PL2	185	60	8	3	24	0.2	4.2
6SCG3&4-48	PL8	375	80	8	3	24	1.9	45.2
6SCG3&4-49	PL8	375	60	8	3	24	1.4	33.9
6SCG3&4-55	PL20	350	350	4	3	12	19.2	230.8
6SCG3&4-56	PL10	410	250	4	3	12	8.0	96.6
6SCG3&4-57	PL10	150	155	8	3	24	1.8	43.8
6SCG3&4-58	PL10	150	165	8	3	24	1.9	46.6
6SCG3&4-59	PL10	250	165	4	3	12	3.2	38.9
6SCG3&4-60	PL10	310	234	4	3	12	5.7	68.3
6SCG3&4-70	PL8	410	100	1	3	3	2.6	7.7
6SCG3&4-71	UNP120	50		2	3	6	0.7	4.0
6SCG3&4-72	L50*50*5	891		2	3	6	3.4	20.2
6SCG3&4-73	L50*50*5	750		2	3	6	2.8	17.0
6SCG3&4-74	PL10	420	260	3	3	9	8.6	77.1
6SCG3&4-PL10	PL10	50	50	45	3	135	0.2	26.5
						TOTAL WEIGHT (Kg)		4599.8
						WEIGHT (FOR ONE TYPE) (Kg)		1533.3

REV.	Description.	DATE
C		
B		
A	FIRST ISSUE	1400.05

Consultant: MOHSEN

Employer: IRISHMOOGAN HYDROELECTRIC CO

Contractor: AZARBIJAN ENSHAT MOGHAM SHARGH

	Name	Date
DRAWN	S.SALEHVARZI	1400.05
DESIGNED	S.SALEHVARZI	1400.05
CHECKED	M.HONDA	1400.05
APPROVED	M.GHAREHPOU	1400.05

Title: DRAWING OF GANTRY COLUMN TYPE 6SCG3&4 NO: 3

Project: ARIAN SHAHR IST ######

Project No: ------

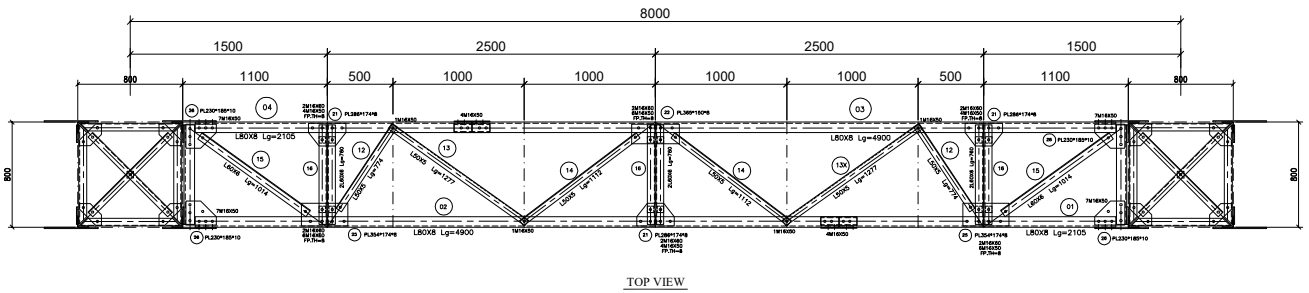
Contract No: ------

Scale: Size: A1

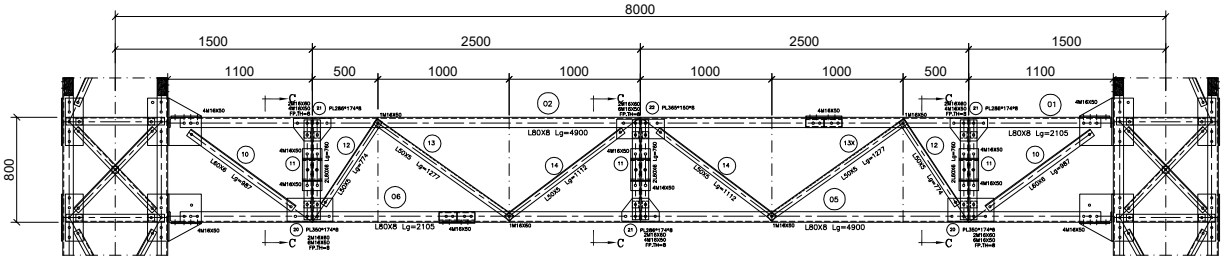
Sheet: 08

Total Sheet: 11

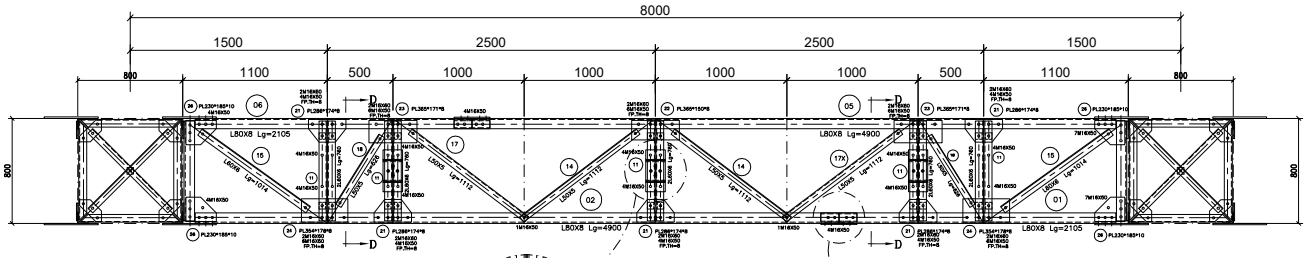
DWG. NO: 6SCG/00/000/00/102



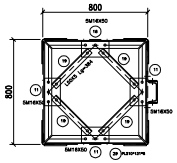
TOP VIEW



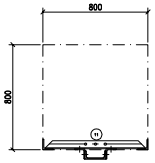
FRONT VIEW



BOTTOM VIEW



SECTION C-C



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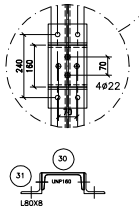
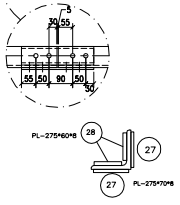




MARK	SIZE	LENGTH	WIDTH	QTY	TOTAL QTY	UNIT W.	TOTAL W.
6SBG1-1	L80*80*8	2105		1	2	20.3	40.7
6SBG1-2	L80*80*8	4900		1	2	47.3	94.7
6SBG1-3	L80*80*8	4900		1	2	47.3	94.7
6SBG1-4	L80*80*8	2105		1	2	20.3	40.7
6SBG1-5	L80*80*8	4900		1	2	47.3	94.7
6SBG1-6	L80*80*8	2105		1	2	20.3	40.7
6SBG1-7	L80*80*8	2105		1	2	20.3	40.7
6SBG1-8	L80*80*8	4900		1	2	47.3	94.7
6SBG1-10	L60*60*6	987		4	8	5.3	42.8
6SBG1-11	L60*60*6	760		22	44	4.1	181.2
6SBG1-12	L50*50*5	774		6	12	2.9	35.0
6SBG1-13	L50*50*5	1277		4	8	4.8	38.5
6SBG1-13X	L50*50*5	1277		4	8	4.8	38.5
6SBG1-14	L50*50*5	1112		8	16	4.2	67.1
6SBG1-15	L60*60*6	1014		4	8	5.5	44.0
6SBG1-16	L60*60*6	760		6	12	4.1	49.4
6SBG1-17	L50*50*5	1112		1	2	4.2	8.4
6SBG1-17X	L50*50*5	1112		1	2	4.2	8.4
6SBG1-18	L50*50*5	626		2	4	2.4	9.4
6SBG1-19	L50*50*5	384		12	24	1.4	34.7
6SBG1-20	PL8	350	174	4	8	3.8	30.6
6SBG1-21	PL8	286	174	14	28	3.1	87.5
6SBG1-22	PL8	365	150	4	8	3.4	27.5
6SBG1-23	PL8	365	171	2	4	3.9	15.7
6SBG1-24	PL8	354	178	2	4	4.0	15.8
6SBG1-25	PL8	354	174	2	4	3.9	15.5
6SBG1-26	PL10	230	185	8	16	3.3	53.4
6SBG1-27	PL8	275	70	8	16	1.2	19.3
6SBG1-28	PL8	275	60	8	16	1.0	16.6
6SBG1-29	PL6	210	121	12	24	1.2	28.7
6SBG1-30	UNP160	148		6	12	2.8	33.4
6SBG1-31	L80*80*8	148		12	24	1.4	34.3
6SBG1-32	PL8	50	50	20	40	0.2	6.3
					TOTAL WEIGHT (Kg)		1483.5
					WEIGHT (FOR ONE TYPE) (Kg)		741.8

NOTES

1- ALL DIMENTION ARE IN mm.

2- ALL DIMENTIONS AND DISTANSES SHALL BE CHECKED BY MANUFACTORERAND WORK-SHOP DWG. SHOULD BE BASED ON CHECKED VALUE.

3-CUTTING THE FLANGS ARE NOT ACCEPTABLE.

4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1*M16 (HOLE ø18 FOR M16).

6- USE BOLT M16 GRADE 8.8 .Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING:	HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & A153(FOR BOLT,NUT,WASHER)		

REV	Description.	DATE
C		
B		
A		
Z	FIRST ISSUE	1405.05

Consultant: MONIRAN

Employer: HORMOZGAN REGIONAL ELECTRIC.CO

Contractor: AZARKISH ENERGY MOHAM SHARGH

	Name	Date
DRAWN		1405.05
DESIGNED	S.SALEHABADI	1405.05
CHECKED	SH.SHOJA	1405.05
APPROVED	M.DANESHPOU	1405.05

Title: DRAWING OF GANTRY BEAM TYPE 6SBG1 NO: 2

Project: [illegible]

Scale:

Size: A1

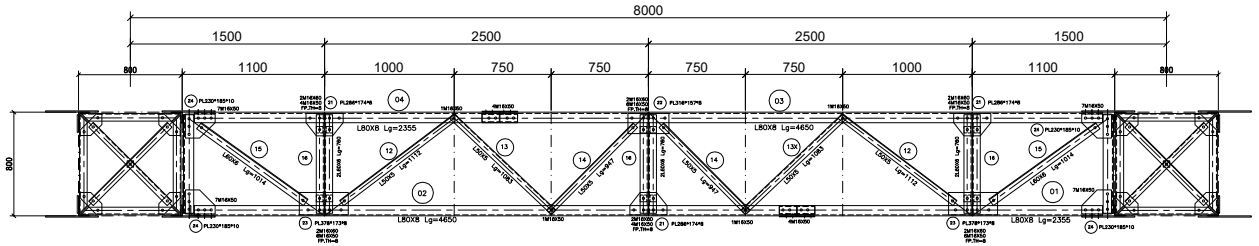
Project No: ------

Sheet: 09

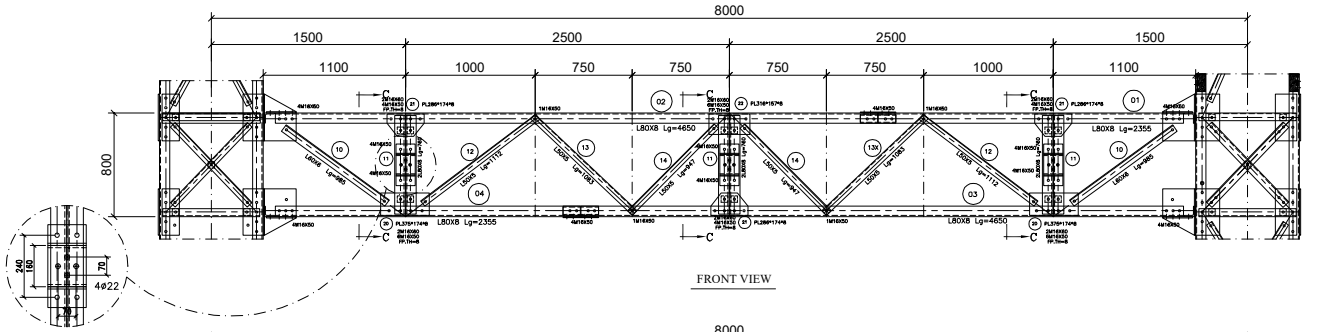
Contract No: ------

Total Sheet: 11

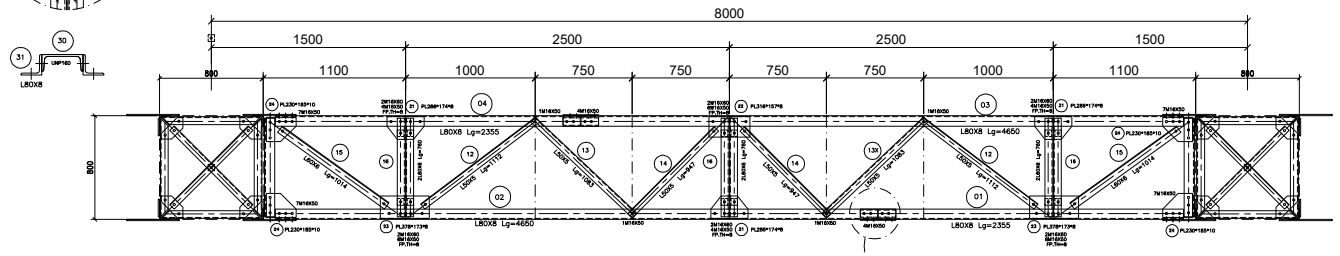
DWG NO:SUHX/GH/ENG/03/HR



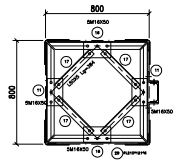
TOP VIEW



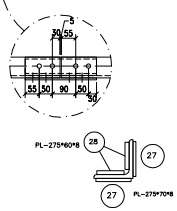
FRONT VIEW



BOTTOM VIEW



SECTION C-C



MARK	SIZE	LENGTH	WIDTH	QTY	TOTAL QTY	UNIT W.	TOTAL W.
6SBG2-1	L80*80*8	2105		1	8	20.3	162.7
6SBG2-2	L80*80*8	4900		1	8	47.3	378.7
6SBG2-3	L80*80*8	4900		1	8	47.3	378.7
6SBG2-4	L80*80*8	2105		1	8	20.3	162.7
6SBG2-5	L80*80*8	4900		1	8	47.3	378.7
6SBG2-6	L80*80*8	2105		1	8	20.3	162.7
6SBG2-7	L80*80*8	2105		1	8	20.3	162.7
6SBG2-8	L80*80*8	4900		1	8	47.3	378.7
6SBG2-10	L60*60*6	985		4	32	5.3	170.8
6SBG2-11	L80*80*8	760		12	96	9.7	927.4
6SBG2-12	L50*50*5	1112		8	64	4.2	268.3
6SBG2-13	L50*50*5	1083		4	32	4.1	130.7
6SBG2-13X	L50*50*5	1083		4	32	4.1	130.7
6SBG2-14	L50*50*5	947		8	64	3.6	228.5
6SBG2-15	L60*60*6	1014		4	32	5.5	175.9
6SBG2-16	L60*60*6	760		6	48	4.1	197.7
6SBG2-17	L50*50*5	384		12	96	1.4	139.0
6SBG2-20	PL8	375	174	4	32	4.1	131.1
6SBG2-21	PL8	286	174	12	96	3.1	300.0
6SBG2-22	PL8	316	157	4	32	3.1	99.7
6SBG2-23	PL8	378	173	4	32	4.1	131.4
6SBG2-24	PL10	230	185	2	16	2.7	42.8
6SBG2-27	PL8	275	70	8	64	1.2	77.4
6SBG2-28	PL8	275	60	8	64	1.0	66.3
6SBG2-29	PL6	210	121	12	96	1.2	114.9
6SBG2-30	UNP160	148		6	48	2.8	133.6
6SBG2-31	L80*80*8	148		12	96	1.4	137.2
6SBG2-32	PL8	50	50	20	160	0.2	25.1
					TOTAL WEIGHT (Kg)		5793.8
					WEIGHT (FOR ONE TYPE) (Kg)		724.2

NOTES

1- ALL DIMENTION ARE IN mm.

2- ALL DIMENTIONS AND DISTANSES SHALL BE CHECKED BY MANUFACTOREREND WORK-SHOP DWG. SHOULD BE BASED ON CHECKED VALUE.

3-CUTTING THE FLANGS ARE NOT ACCEPTABLE.

4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1*M16 (HOLE ø18 FOR M16).

6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

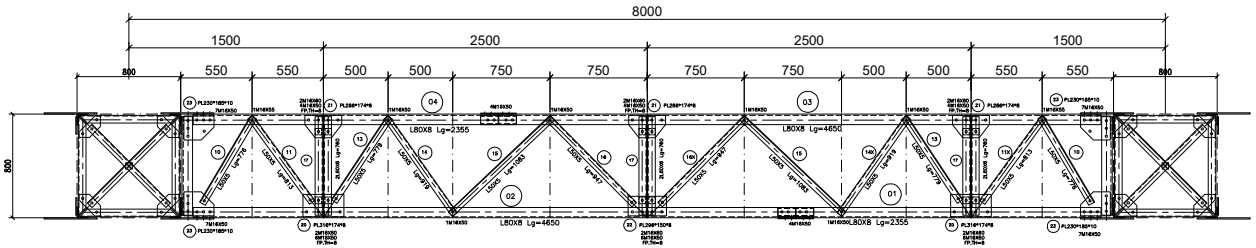
MATERIAL	TYPE	YIELD STRESS kg/cm2	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING:	HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & A153(FOR BOLT,NUT,WASHER)		

REV	Description	DATE
C		
B		
A		
Z	FIRST ISSUE	1405.05

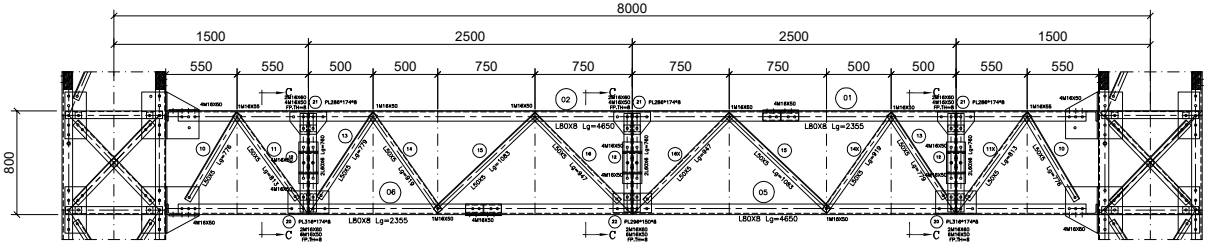
Consultant: MONIRAN
Employer: HORMOZGAN REGIONAL ELECTRIC.CO
Contractor: AZARSKESH ENERGY MOHAM SHARCH

	Name	Date
DRAWN		1405.05
DESIGNED	S.SALEHABADI	1405.05
CHECKED	SH.SHOJA	1405.05
APPROVED	M.DANESHPOU	1405.05

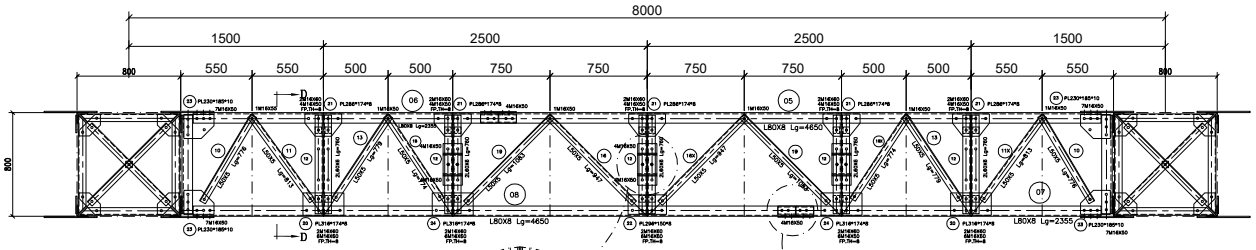
Title: DRAWING OF GANTRY BEAM TYPE 6SBG2 NO: 8
Project: [redacted]
DWG NO:HSRK/GE/EQG/GS/122
Scale:
Size: A1
Project No: .....
Sheet: 10
Contract No: .....
Total Sheet: 11



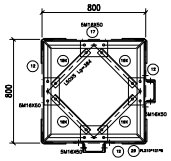
TOP VIEW



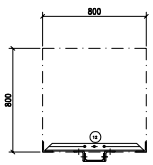
FRONT VIEW



BOTTOM VIEW



SECTION C-C



SECTION D-D

MARK	SIZE	LENGTH	WIDTH	QTY	TOTAL QTY	UNIT W.	TOTAL W.
6SBG3-1	L80*80*8	2355		1	2	22.7	45.5
6SBG3-2	L80*80*8	4650		1	2	44.9	89.8
6SBG3-3	L80*80*8	4650		1	2	44.9	89.8
6SBG3-4	L80*80*8	2355		1	2	22.7	45.5
6SBG3-5	L80*80*8	4650		1	2	44.9	89.8
6SBG3-6	L80*80*8	2355		1	2	22.7	45.5
6SBG3-7	L80*80*8	2355		1	2	22.7	45.5
6SBG3-8	L80*80*8	4650		1	2	44.9	89.8
6SBG3-10	L50*50*5	776		8	16	2.9	46.8
6SBG3-11	L50*50*5	813		4	8	3.1	24.5
6SBG3-11X	L50*50*5	813		4	8	3.1	24.5
6SBG3-12	L60*60*6	760		22	44	4.1	181.2
6SBG3-13	L50*50*5	779		8	16	2.9	47.0
6SBG3-14	L50*50*5	919		4	8	3.5	27.7
6SBG3-14X	L50*50*5	919		4	8	3.5	27.7
6SBG3-15	L50*50*5	1083		6	12	4.1	49.0
6SBG3-16	L50*50*5	947		4	8	3.6	28.6
6SBG3-16X	L50*50*5	947		4	8	3.6	28.6
6SBG3-17	L60*60*6	760		6	12	4.1	49.4
6SBG3-18	L50*50*5	774		1	2	2.9	5.8
6SBG3-18X	L50*50*5	774		1	2	2.9	5.8
6SBG3-19	L50*50*5	1083		2	4	4.1	16.3
6SBG3-20	PL8	316	174	8	16	3.5	55.2
6SBG3-21	PL8	286	174	14	28	3.1	87.5
6SBG3-22	PL8	296	150	4	8	2.8	22.3
6SBG3-23	PL8	230	185	8	16	2.7	42.8
6SBG3-24	PL8	316	174	2	4	3.5	13.8
6SBG3-27	PL8	275	70	8	16	1.2	19.3
6SBG3-28	PL8	275	60	8	16	1.0	16.6
6SBG3-29	PL6	210	121	12	24	1.2	28.7
6SBG3-30	UNP160	148		6	12	2.8	33.4
6SBG3-31	L80*80*8	148		12	24	1.4	34.3
6SBG3-32	PL8	50	50	20	40	0.2	6.3
					TOTAL WEIGHT (Kg)		1464.7
					WEIGHT (FOR ONE TYPE) (Kg)		732.3

NOTES

1- ALL DIMENTION ARE IN mm.

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4- LEG DISTANCES AT BASE OF GANTRY ARE FROM BACK TO BACK OF LEG ANGLES.

5- NUMBER OF BOLTS IN OTHER CONNECTIONS THAT ARE NOT SHOWN IN THIS DRAWING ARE 1*M16 (HOLE ø18 FOR M16).

6- USE BOLT M16 GRADE 8.8 ,Fu=8000 kg/cm2 & Fy=6400 kg/cm2 FOR CONECTIONS.

7- FOR EACH BOLT: A NUT, A WASHER AND A STANDARD SPRING WASHER ARE NEEDED.

MATERIAL	TYPE	YIELD STRESS kg/cm²	STANDARD
STEEL	ST 37-2	2400	DIN 17100
BOLT	8.8	6400	DIN 933&931
NUT & WASHER	NUT	FLAT WASHER	SPRING WASHER
	DIN 934	DIN 125	DIN 128B
COVERING: HOT-DIP GALVANIZED ASTM A123(FOR STEEL) & A153(FOR BOLT,NUT,WASHER)			

C			
B			
A			
Z	FIRST ISSUE	1405.05	
REV	Description.	DATE	

Consultant: MONIRAN

Employer: HORMOZGAN REGIONAL ELECTRIC.CO

Contractor: AZARKESH ENERGY MOHAM SHARIH

	Name	Date
DRAWN		1405.05
DESIGNED	S.SALEHABADI	1405.05
CHECKED	SH.SHOJA	1405.05
APPROVED	M.DANESHPOU	1405.05

Title: DRAWING OF GANTRY BEAM TYPE 6SBG3 NO: 2

Project: [illegible]

Scale:

Size: A1

Project No: .....

Sheet: 11

Contract No: .....

Total Sheet: 11

DWG NO:6SBG/02/SBG/03/122