

NOTES:

- 1- ALL DIMENSION ARE IN MILLIMETERS.
- 2- DO NOT SCALE THE DRAWING
- 3- DIAMETERS OF HOLE ARE AS FOLLOWS:
Ø12.5 mm FOR M20, Ø17.5 mm FOR M16
Ø13.5 mm FOR M12 BOLTS.
- 4- EACH BOLT ASSEMBLY INCLUDES ONE BOLT
ONE NUT AND ONE SPRING WASHER.
- 5- EACH STEP BOLT ASSEMBLY INCLUDES ONE STEP BOLT
TWO NUTS AND TWO SPRING WASHER.
- 6- GRADE OF BOLTS IS 5.8
- 7- THE STEEL MEMBER IDENTIFIED BY "H" ARE ST52
OTHER MEMBERS ARE ST357

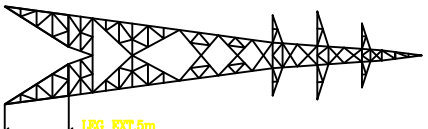
SYMBOLS AND ABBREVIATIONS

DESCRIPTION	SYMBOL
CENTER LINE	C.L.
PLATE	PL
ANGLE	L
SPLICE	SP
HIGH TENSILE	HL
BEND LINE	B.L.
NEAR SIDE	N.S.
FAR SIDE	F.S.
Ø14 mm HOLE	●
Ø17.5 mm HOLE	○
Ø22 mm HOLE	⊙
HOLE FOR STEP BOLT	⊙
SPECIFICATION FOR MATERIALS	
REFERENCE	
NO.	ITEM
1	ANGLE DIN 10066-8 M16 STEEL, GRADE S355JR M12 STEEL, GRADE S355JR
2	CROSSER DIN 10040 M16 STEEL, GRADE S355JR M12 STEEL, GRADE S355JR
3	PLATE DIN 10040 M16 STEEL, GRADE S355JR M12 STEEL, GRADE S355JR
4	BOLT DIN 9040 S30 060-part1, Grade 5.8
5	NUT DIN 9040 S30 060-part2, Grade 5
6	SPRINGER DIN 187 DIN 907-part 28
7	WASHER DIN 9040 DIN 10066-8, Grade S355JR
8	GALVANIZED STEEL & NUTS & WASHERS ASTM A153 ASTM A153

Note: 1- Application of an equal and approved material is allowed only after the written permission of consultant.

LIST OF BOLT & NUTS INCLUDING 3% EXTRA

LENGTH	QTY.	LENGTH	QTY.
M16x35mm	43	STEP BOLT	09
M16x40mm	13	8mm PLATE W.	03
M16x50mm	07	50x50 WASHER	110
M16x60mm	03		
M16x65mm	28		



DESCRIPTION ACCORDING TO LETTER NO. 63/139/14/16	DATE	BY	CHKD	DATE
63/139/14/16	14/01/2016	Y. YAZDANI	Y. YAZDANI	14/01/2016

Y. YAZDANI - SA 30

63/139/14/16

YAZD REGIONAL ELECTRIC CO.

MONENCO IRAN CO.

YASAN CO.

TENSION YTM60

LEG EXT. 5m

