

NOTES:

- 1- ALL DIMENSION ARE IN MILLIMETERS.
2- DO NOT SCALE THE DRAWING
3- DIAMETERS OF HOLE ARE AS FOLLOWS:
Ø21.5 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 "A" ARE ST52
OTHER MEMBERS ARE ST37

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	○
Ø21.5mm HOLE	○
HOLE FOR STEP BOLT	⊙

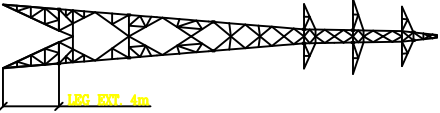
SPECIFICATION FOR MATERIALS

NO.	ITEM	REFERENCE
1	ANGLE	DIN EN 10025-3 MILD STEEL, GRADE S235JR MILD STEEL, GRADE S275JR
2	CROSSB	DIN EN 10025-3 MILD STEEL, GRADE S235JR MILD STEEL, GRADE S275JR
3	PLATE	DIN EN 10025-3 MILD STEEL, GRADE S235JR MILD STEEL, GRADE S275JR
4	BOLT	DIN 934 ISO 886-part1, Grade 5.8
5	NUT	DIN 934 ISO 886-part2, Grade 5
6	WASHER	DIN 127 DIN 937-part 28
7	PLATE	DIN EN ISO 4783-3 DIN EN 10025-3, Grade S235JR
8	GALVANIZ	ASTM A123 ASTM A153

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

LIST OF BOLT & NUTS & WASHERS INCLUDING 3X EXTRA

LENGTH	QTY.	LENGTH	QTY.
M16x55mm	38	STEP BOLT	05
M16x40mm	17	SPRING WASHER	78
M16x35mm	13		



NO.	REVISION	BY	CHKD.	DATE
01				

PROJECT: 63 KV D.C. TRANSMISSION LINE

CLIENT: YAZD REGIONAL ELECTRIC CO.

DESIGNER: MONENCO IRAN CO.

CONTRACT NO: YASAN CO.

WORK TYPE: SUSPENSION YSM03

DATE OF ISSUE: LEG EXT. 4m



YASAN CO.