



BOLTS AND NUTS STATEMENT:			
TYPE	SIZE (IN mm)	QUANTITY	
B	#16mm x 35mm	80	-
C	#16mm x 40mm	50	-
D	#16mm x 45mm	-	-
E	#16mm x 50mm	-	-
F	#16mm x 55mm	-	-
G	#16mm x 60mm	-	-
H	#16mm x 65mm	-	-
J	#16mm x 70mm	-	-
K	#16mm x 75mm	-	-
L	#16mm x 80mm	-	-
SPRING WASHERS		130	-
30 O.D. PACKING WASHERS #17.5mm			
5 mm		2	-
6 mm		-	-
8 mm		-	-
10 mm		-	-
STEP BOLTS # 16mm x 175mm		-	-

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
  - MILD STEEL BOLTS & NUTS TO IS 6839/12427/4.8/5.6 Q.LTY.
  - ALL MILD STEEL BOLTS & NUTS ARE TO BE HOT DIP GALVANIZED AS PER IS-1367 PART-VIII.
  - ALL MILD STEEL BOLTS & NUTS ARE TO BE QUALITY CONFORMING TO IS-2062 STANDARD.
  - GALVANIZATION OF TOWER MEMBERS AND FLAT WASHERS AS PER IS-2628.
  - ALL HOLES #13.5 FOR M12 BOLTS U.O.S.
  - ALL HOLES #17.5 FOR M16 BOLTS U.O.S.
  - ALL HOLES #21.5 FOR M20 BOLTS U.O.S.
  - ALL HOLES #17.5 FOR M16 STEP BOLTS U.O.S.
  - STANDARD SPRING WASHERS ARE TO BE USED UNDER EACH NUT.
  - ALL FABRICATED MEMBERS SHALL HAVE THE PREFIX-2DA
  - FOR SIZE OF BOLTS AND NUTS SEE TABLE OT-100
  - INDICATES MEMBERS BEING USED AS STEP-BOLTS.
  - FOR ..... SEE DRG. NO. S .....
  - FOR ..... SEE DRG. NO. S .....
  - FOR ..... SEE DRG. NO. S .....
  - FOR ..... SEE DRG. NO. S .....
  - (H) INDICATES HIGH TENSILE STEEL CONFORMING TO BE 4300 GR-SOL QUALITY.
  - FOR ACCEPTANCE CRITERIA REFER MANUFACTURING QUALITY PLAN MFD-701.
  - VERTICAL DIMENSIONS ARE SHOWN IN .....
  - STEP BOLTS SHALL BE DIAGONALLY OPPOSITE LEGS.

MARK Nos. 40-53, 60-73, 34

BIHAR STATE POWER TRANSMISSION COMPANY LTD

DRAWN BY	DESCRIPTION	220KV D/C TOWER TYPE "2DA" DETAILS OF MIDDLE AND BOTTOM CROSS ARM	SCALE	-
CHECKED BY				
APPROVED BY	DRG NO	220KV-D/C-Struct-Middle-Bottom-Cross -16	SHEET NO 1-1	REV. 0

KRR-B2/PROJ/2DA-005