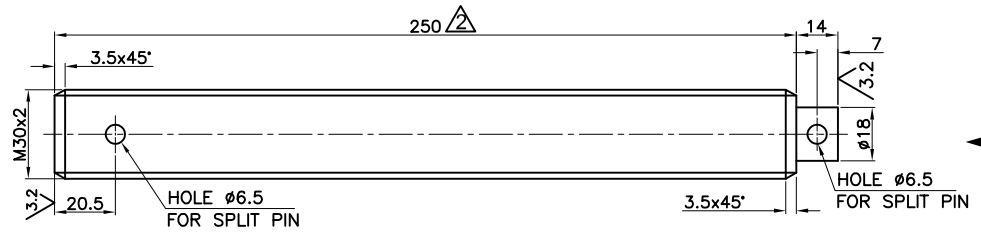
FIRST ANGLE PRJECTION

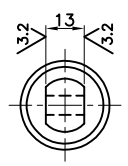
Fold-1

ALL DIMENSIONS ARE IN MM

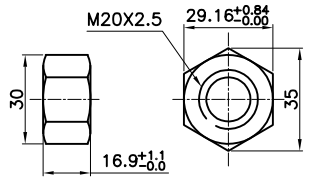
DRAWING NO. 3-16503-40900



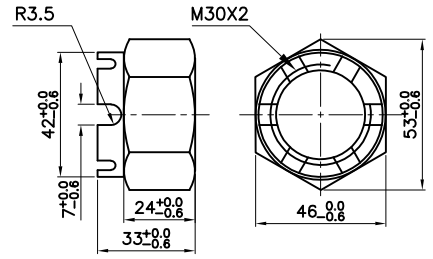
DETAIL ITEM NO. 101



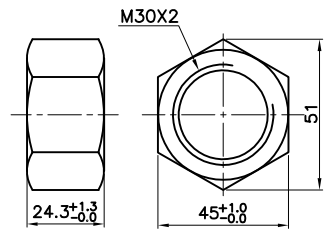
VIEW-W



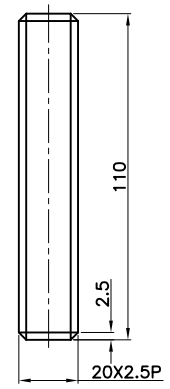
DETAIL ITEM NO. 110 (2)



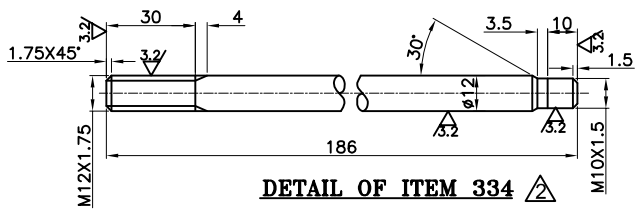
DETAIL ITEM NO. 102



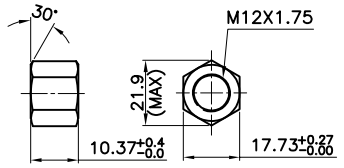
DETAIL ITEM NO. 105 (2)



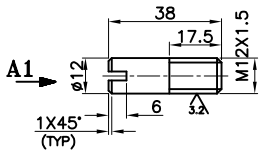
DETAIL ITEM 109



DETAIL OF ITEM 334 (2)

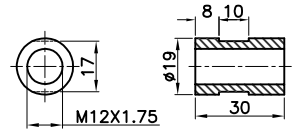


DETAIL OF ITEM 335 (2)

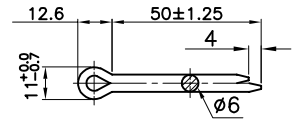


DETAIL OF ITEM 121 (2)

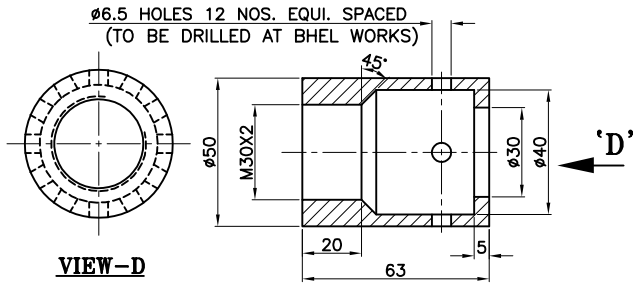
VIEW-A1



DETAIL OF ITEM 327 (2)



DETAIL ITEM NO. 103



VIEW-D

DETAIL ITEM NO. 104

(2) TECHNICAL REQUIREMENTS (TR) :-

1. THE THREADED SURFACE AND MACHINE SURFACE SHALL BE SUITABLE PROTECTED AGAINST MECHANICAL DAMAGE & PRESERVED CLEAN.
2. THE STANDARD NUT DIMESIONS OF PART NO. 105,110,335 SHALL BE AS PER IS 1364 (PART 3) : 2002.
3. PROTECT ALL MACHINED SURFACE AND THREADED CONNECTIONS WITH RUST PRESERVATIVE IMMEDIATALY AFTER NDE & MACHINING.
4. THREADING SHALL BE AS PER ISO@ ANSI B1.1.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF TO SMOOTH RADIUS.
6. THREADS OF ALL STUDS/NUTS SHALL BE APPLIED WITH MOLYBDENUM DISULFIDE.

NOTE : QUANTITY MENTIONED ARE FOR ONE NO. HEAT EXCHANGER.

DO NOT SCALE THE DRAWING.
UNLESS OTHERWISE STATED:-
ALL DIMENSIONS ARE IN mm.
MACHINE ALL OVER.
SURFACE FINISH TO BE 3.2 OR BETTER.
REMOVE ALL BURRS.
REMOVE ALL EXTERNAL SHARP CORNERS AND EDGES BY CHAMFERING TO 0.15/0.40 x 45°.
ROUND ALL INTERNAL CORNERS AND EDGES TO R 0.15/0.40.
TOLERANCES ON RADII AND CHAMFERS (IS : 2102)

REDII AND CHAMFERS	0.5-3	3-6	6-30
TOLERANCES	±0.2	±0.5	±1.0

TOLERANCE ON LINEAR DIMENSIONS (IS:2102)

DIMENSIONS	TOL.	DIMENSIONS	TOL.
UP TO 6	±0.1	315 -1000	±0.8
6 - 30	±0.2	1000-2000	±1.2
30 - 120	±0.3	2000-4000	±2.0
120 - 315	±0.5	4000-8000	±3.0

TOLERANCE ON LINEAR DIMENSIONS

SPECIFIED DIMENSIONS	TOLERANCE
XX	± 0 . 40
XX.X	± 0 . 40
XX.XX	± 0 . 25

TOLERANCE ON ANGULAR DIMENSIONS : 0°-0.5°

VAR00 QTY.NOS	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	STD	DRAWING NO.	IT.NO. / VAR.	MATL. CODE / MATL. SPCN.	A-C	UNIT	UNIT WT. / QTY.	GS	ZONE
02	-	00	335	HEX. NUT M12X1.75		-		- / SA 479 Gr. 304L	A	KG	0.02		
02	185 LG.	00	334	STUD M12XM10 (DOUBLE END)		-		- / SA 479 Gr. 304L	A	KG	0.17		
10	30 LONG INTERNAL THREAD M12X1.75	00	327	THREAD SLEEVE PIN ø19		-		- / SA 479 Gr. 304L	A	KG	0.07		
01	-	00	121	DOWEL PIN		-		- / SA 350LF2/SA 193 Gr.B	A	KG	0.03		
48	-	00	110	HEX NUT M20X2.5P		-		- / SA 320 L43	A	KG	0.05		
24	-	00	109	STUD M20X2.5X110 LG.		-		- / SA 320 L43	A	KG	0.27		
24	-	00	105	HEX NUT M30X2P		-		- / SA 194 Gr.7	A	KG	0.18		
24	-	00	104	STUD CAP		-		- / IS 9550	A	KG	0.38		
48	-	00	103	SPLIT PIN ø6		-		- / IS 549	A	KG	0.014		
24	-	00	102	CASTELLATED NUT M30X2P		-		- / SA 194 Gr.7	A	KG	0.31		
24	264 LONG	00	101	STUD M30X2PX264		-		- / SA 320 L43	A	KG	1.38		

(2) (1)

28 — CARD TYPE-3 | 28 — CARD TYPE-1 | 28 — CARD TYPE-2

NPCIL PURCHASE ORDER NO. :
CMM/FTP/10-33-1-1149/e-PO/30599
Dtd. 25/01/2019

ADDITIONAL INFORMATION
DRG. LIST : 4-16503-40361

STATUS OF DRAWING
W/O. NO. : 18085/86-W-04801

DISTRIBUTION OF PRINTS
CDE - 2 FWM - 4
HCM - 4

एनपीसीआईएल NPCIL

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
PROJECT : GORAKHPUR HARYANA ANU VIDHYUT PARIYOJANA 1&2 (700 MWe)
NPCIL PURCHASE ORDER NO. : CMM/FTP/10-33-1-1149/e-PO/30599, DATED 25.01.2019

उत्पाद का प्रकार ~~सा~~
~~ग्राहक/परियोजना का नाम~~
TYPE OF PRODUCT OR
~~NAME OF CUSTOMER/PROJECT~~

FMRC

बीएचईएल BHEL
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
भोपाल
BHARAT HEAVY ELECTRICALS LTD
BHOPAL

	नाम/ NAME	हस्ता./ SIGN	दिनांक/DATE
बनाया DRN.	विजय कुमार कुशवाहा	विजयकुमार	01/05/2019
जाँचा CKD.	नागेन्द्र सिंह	नगेन्द्रसिंह	03/05/2019
अनुमोदित APPD.	ए.के.माहौर		06/05/2019

वे.रि. की संख्या NO. OF VAR.

REV.	DATE	ALTERED / CHECKED / APPROVED	REV.	DATE	ALTERED / CHECKED / APPROVED	REV.	DATE	ALTERED / CHECKED / APPROVED
			02	17/02/2020	विजय कुमार कुशवाहा / नागेन्द्र सिंह / ए.के.माहौर	01	16/01/2020	विजय कुमार कुशवाहा / नागेन्द्र सिंह / ए.के.माहौर
ZONE			ZONE		-TR ADDED. - ITEM 121,327,334 & 335 ADDED. -REVISION AS MARKED. (2) -DRG REVISED TO INCORPORATE NPCIL COMMENT Dtd. 07/02/2020.	ZONE		DRAWING REVISED & REDRAWN BASED ON LATEST DRAWING SUBMITTED FOR SDC AND BASED ON MOM Dtd.03/01/2020. REVISION AS MARKED. (1)

विभाग DEPT. CDE
कोड CODE 411
अन.टाल. नाप की श्रेणी UNTOL. DIMS. GR. AA0230208 M
अनुपात SCALE 1:2.5
भार (कि.ग्रा.) WEIGHT (K.G.) -
असे. ड्राईंग का संदर्भ REF. TO ASSY. DRG. 1-16503-40856 1-16503-40888
मद क्र. ITEM NO. -
मद संख्या NO. OF ITEM -

शीर्षक/ TITLE
FASTENERS

ड्राईंग क्र./DRAWING NO. 3-16503-40900
पुन./REV. 02
पृष्ठ क्र./ SHT. NO.01
पृष्ठों की संख्या/ NO. OF SHT.01

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it must not be used directly or indirectly in any way deterimental to the interest of the company.

REF. DRG. NO.
SIGN. & DATE
INVENTORY NO.

Fold-1

FORMAT SIZE A3