MONITORING INSTRUCTION FOR INSPECTION

Issue No. 01 Rev. No. 00

Date of Issue 28.05.2022

STEEL BLANKS Ø180mm - Body Base

HEPF/QA/SC/ZI/107

STANDARD CELL

Rev no

Amendment

Date

SPECIFICATION

: BS 970 (PT 3)-91 GRADE 817M40 (En 24)

DRAWING

: O RGB 060 1 180

CONDITION OF SUPPLY

HARDENED AND TEMPERED TO 'U' CONDITION

END USE

: BODY BASE (NASK 1134/1/1/2(P))

1. INSPECTION TO BE CARRIED OUT AT FIRM'S PREMISES BY THE FIRM.

(TABLE A)

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NO	CHARACTERISTICS	SPECIFICATION / REQUIREMENT	SAMPLE SIZE
1	Visual	The blanks shall be clean, and free from sharp edges, dents, porosity, cracks etc	
2	Outer Diameter	180 +0.0 / -2.0 mm	100%
3	Length	74+0.5mm	
4	Chemical (%)		3 Samples per lot
5	Mechanical	BS 970 (PT 3) - 91GRADE 817M40 HARDENED AND TEMPERED 'U' CONDITION	or as per the discretion of inspection authority
6	Macro Structure Examination	C2 R1 S1 Plate 1 & Nil for Plate 2 as per ASTM E 381-1984	Randomly
7	Micro Structure Examination	Tempered Martensite with grain size greater that 5 as per ASTM E 112	selected samples from 3 Nos.per
8	NMIR	NMIR ABCD 1.5 thin & AD 0.5 thick as per ASTM E 45-2018	heat
9	Ultrasonic Test (After heat treatment to 'U' condition)	All components shall be tested as per specification IS: 8791/78 Class "A" For Ferritic Steel Forging. Test certificate to be submitted.	100%
10	Dye Penetrant Test	ASME SE 165	
11	Marking	Each blank shall be legibly stamped with manufacturer's identity & heat number.	Each Consignment
12	Packing	Packing of the material shall be done in such a manner to avoid corrosion and damage in handling and transit.	Each Consignment

NOTE:

- i. The blank samples / test specimens for each heat shall be selected from bulk at firm's premises by NAI REP. for forwarded to nearby NABL accredited laboratory for testing
- ii. Ultrasonic testing to be carried out by level-III inspector and test report shall be submitted as per IS :8791-78 Clause 10.
- The firm has to check for the dimensions, visual defects and marking as per **Table A**. After testing of all parameters as per **Table-A**. The firm has to forward the following documents.
 - I. The raw material original manufacturer's certificate, heat number, quantity purchased and number of blanks are to be mentioned in the inspection letter to NAI/TRICHY. Materials of different heat No. shall be marked with separate identity & packing..
 - II. The test certificates from NABL accredited lab as per Table A.
 - III. Dimension report including visual as per Table A.
- iv. All the above documents are to be forwarded to NAI & HEPF.
- v. NAI shall verify all the documents as per above and accord clearance for dispatch of the material to HEPF if all documents are in order.

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- On receipt at HEPF, the store will be subjected to chemical, mechanical, ultrasonic testing, dye penetration test and micro & macro examination, ultrasonic testing of randomly selected samples from each heat as per discretion of HEPF as per Table-A and user trial (machining)
- 3. Material has to be replaced 100% by the firm in case of non conformity to specification as per **Table A**, during inspection at **HEPF**, **Trichy**.
- 4. VERIFICATION OF INSPECTION DOCUMENTS AT HEPF

FOLLOWING INSPECTION DOCUMENTS MUST BE ENCLOSED WITH EACH SUPPLY.

TABLE B

I ABLE B		
INSPECTION DOCUMENTS		
BLANK ORIGINAL MANUFACTURER'S CERTIFICATE , DETAILS OF HEAT NUMBER, QUANTITY PURCHASED AND NUMBER OF BLANKS ETC .		
TEST CERTIFICATES FROM NABL ACCREDITED LAB & UT TEST CERTIFICATE		
DIMENSION REPORT INCLUDING VISUAL		
PACKING SLIP DETAILS		
IN ADDTION TO THE ABOVE SOFT COPIES OF ALL THE CERTIFICATES MENTIONED IN TABLE - A SHALL BE SENT TO E-MAIL ID's happqa@ord.gov.in , mmhapp@ord.gov.in		
Explicit deviation(s) if any such as typographical error, values, numeric, other parameter, etc is/are found in monitoring instruction of the above stores, the relevant standard conforming to the specification shall be referred to confirm the parameter		

N.CHELLAPANDI Jt.GM/P

MEMBER MI COMMITTEE /USER

SREÉNIVASA RAO BODALA DGM/Q

CHAIRMAN / MI COMMITTEE

MOSISTO



