

355006/2024/HEP-TXM20500

SHEET NO. 1 OF 2

**SPECIFICATION FOR**  
**'NON-STANDARD HARDWARE KIT'**  
**FOR**  
**HITACHI TRACTION MOTOR**

पुणव

डि.के.वास

सुत्र

Sl. NO.	Authority	Description	Location	Date
1		SPECIFICATION FOR NON-STANDARD HARDWARE KIT FOR HITACHI TRACTION MOTOR.	CHITTARANJAN LOCOMOTIVE WORKS, WEST BENGAL, INDIA	09.07.2024
		BY: C/TMS		DATE: 09.07.2024

Signature Not Verified

Digitally signed by  
RANJAN KUMAR  
Date: 2022.04.08  
12:00:17 +05'30'Reason: IIRPS-CRIS  
Location: New Delhi

4TMS 095.045

**1. FOREWORD:-**

This Specification covers the requirements of **'NON-STANDARD HARDWARE KIT'** for manufacturing of Hitachi Traction Motor.

**2. Requirement :** Requirement per set in the **'KIT'** form are indicated here under: -  
Suppliers shall quote their rates per set in **'KIT'** form taking all items together, otherwise their offers are liable to be summarily rejected.

Sl. No	C&D No.	Description & Drg./Specn. No.	Qty./TM (nos)	Remarks
01	5565/805	Special Bolt to Drg. No. 10T.835-015, ALT-G	04 nos.	<b>Stocking C&amp;D No. is 5565/820</b>
02	5565/777	Special Bolt to Drg. No. 10T.834-941, ALT-D	01 nos.	
03	5528/014	Lock Washer (Commutator End) to Drg. No. 4TWD.095.253	01 nos.	
04	5528/040	Double Locking Plate to Drg. No. 4TWD.095.093	02 nos.	
05	5502/015	Self Tapping Screw dia 2.5 mm or Self Tapping Screw Type-'U' NO. 2, L-6.5 mm to DIN:7974, Round Headed.	04 nos.	
TOTAL QTY. (for Shop-2103 only)			12 nos. in 01 SET.	

∴ Qty/TM of "Non-standard Hardware KIT (HTM)" = 01 Set against stocking C&D No. 5565/820.

**3. Special Condition:-** Supplies will be acceptable with Manufacturer's Guarantee/Test Certificate.

**4. Marking & Packing:-** Manufacturer's identification mark/ Colour code shall be provided on each item as per drg./specn.. One set of **KIT** shall be properly packed in box of suitable material to avoid damage during handling and transportation. All the items should be first kept in durable polythene packet, each type in separate packet and then finally kept in box. Two cards indicating description of the material under stocking C&D No. **5565/820** and also the description and C&D No. of individual item including quantity duly signed by CLW's inspector shall be tagged, one inside and the other outside the box.

**5. Inspection:-**

- Few nos. of each item shall be selected at random.
- Non-standard Hardware shall be tested at **NABL** certified lab as per above Drg./Specn

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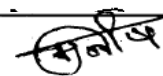
SPECIFICATION FOR **'NON-STANDARD HARDWARE KIT'** FOR HITACHI TRACTION MOTOR.

DY.CEE/TMD

CHITTARANJAN LOCOMOTIVE WORKS  
WEST BENGAL, INDIA


**NO. 4TMS.095.045**

DATE: 16-06-2018

 <b>PRODUCT STANDARD</b> <b>TME DIVISION, BHOPAL</b>		<b>TM 10469</b>																						
		<b>PAGE 01 OF 02</b>																						
<b>TME/2011</b>		<b><u>SPECIFICATION FOR 'NON STANDARD HARDWARE' KIT FOR HITACHI TRACTION MOTOR</u></b>																						
<p><b>1.0 FOREWORD :</b> This specification covers the requirements of 'NON STANDARD HARDWARE KIT' for manufacturing of Hitachi Traction Motor.</p> <p><b>2.0 REQUIREMENT :</b> Requirement per set in the 'KIT' form are indicated here under:-  Suppliers shall quote their rates per set in 'KIT' form taking all items together, otherwise their offers are liable to be summarily rejected.</p> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Description &amp; Drg/Specn.No</th> <th>Qty/TM (Nos)</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Special Bolt for Drg. No. 44392060057</td> <td>04 Nos</td> </tr> <tr> <td>02</td> <td>Special Bolt Drg. No. 44392060059</td> <td>01 Nos</td> </tr> <tr> <td>03</td> <td>Lock Washer (Commutator End) to Drg. No. 34394460051</td> <td>01 No.</td> </tr> <tr> <td>04</td> <td>Double Locking Plate to Drg. No. 44394060052</td> <td>02 Nos</td> </tr> <tr> <td>05</td> <td>Self Tapping Screw dia 2.5 mm or Self Tapping Screw Type 'U' No. 2, L=6.5 mm to DIN 7974. Round Headed</td> <td>04 Nos</td> </tr> <tr> <td colspan="2"><b>TOTAL QTY</b></td> <td><b>12 Nos</b></td> </tr> </tbody> </table> <p>Qty/TM of "Non Standard Hardware KIT (HTM)" = 01 set.</p> <p><b>3.0 Special Condition:</b> Supplies will be acceptable with manufacturer's Guarantee/Test Certificate.</p> <p><b>4.0 Marking &amp; Packing :</b> Manufacturer's identification mark/Colour code shall be provided on each item as per drg./ Specn. One set of KIT shall be properly packed in box of suitable material to avoid damage during handling and transportation. All the items should be first kept in durable polythene packet, each type in separate packet and then finally kept in box. Two cards indicating description of the material under stocking of individual item including quantity duly signed by BHEL's inspector shall be tagged, one inside and the other outside the box.</p>				Sl. No	Description & Drg/Specn.No	Qty/TM (Nos)	01	Special Bolt for Drg. No. 44392060057	04 Nos	02	Special Bolt Drg. No. 44392060059	01 Nos	03	Lock Washer (Commutator End) to Drg. No. 34394460051	01 No.	04	Double Locking Plate to Drg. No. 44394060052	02 Nos	05	Self Tapping Screw dia 2.5 mm or Self Tapping Screw Type 'U' No. 2, L=6.5 mm to DIN 7974. Round Headed	04 Nos	<b>TOTAL QTY</b>		<b>12 Nos</b>
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<p><b>Revision Details:</b> As per revision sheet</p>																								
<b>Rev. No.</b> 00		<b>Date of Rev.</b> 09.03.11	<b>Reaffirmed Year</b> Feb 2022																					
<b>Distribution</b> TME TXM TNX QTM		<b>Qty.</b> 1 1 1 2	<b>Approved:</b>  Manish Verma (Sr.DGM/TME)																					
<b>Prepared:</b> Mohit Parothia Engineer/TME		<b>Checked:</b> Anurag Sharma Manager/TME																						
<b>Date of 1<sup>st</sup> Issue</b> 09.03.11																								

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<p><b>COPYRIGHT AND CONFIDENTIAL</b></p> <p>The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED It must not be used directly or indirectly in any way detrimental to the interest of the company</p>		<p><b>5.0 INSPECTION :</b></p> <ul style="list-style-type: none"> <li>a) Few nos. of each item shall be selected at random.</li> <li>b) Non- standard Hardware shall be tested at NABL certified lab as per above Drawing / Specification.</li> </ul> <p><b>6.0</b> This specification is equivalent to CLW spec. No. 4TMS.095.045</p>	