
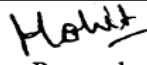
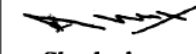
	PRODUCT STANDARD TME DIVISION, BHOPAL		TM 10462																												
	TME/2011		PAGE 01 OF 03																												
<p align="center"><u>SPECIFICATION FOR 'STANDARD HARDWARE KIT'</u> <u>FOR HITACHI TRACTION MOTOR</u></p>																															
<p>1. FOREWARD :</p> <p>This specification covers the requirements of 'STANDARD HARDWARE KIT' for manufacturing of Hitachi Traction Motor.</p>																															
<p>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.</p>																															
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<p>Revision Details: As per revision sheet</p>																															
Rev. No. 00			Date of Rev. 04.02.11																												
Reaffirmed Year Feb 2022			Date of 1st Issue 04.02.11																												
Distribution TME TXM TNX QTM			Qty. 1 1 1 2																												
Approved:  Manish Verma (Sr.DGM/TME)			Prepared:  Mohit Parothia Engineer/TME																												
Checked:  Anurag Sharma Manager/TME.																															

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PRODUCT STANDARD
TME DIVISION, BHOPAL

TM 10462

TME/2011


PAGE 02 OF 03

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Sl. No.	Description & Drg. / Specn.No.	Qty. /TM (Nos)
01	Hex. Hd. Bolt M20 X70-8.8 Phosphated to IS:1364(Part-1) '92 ISO:4014'88	06 Nos.
02	Hex. Hd. Screw M16 X45-8.8 Phosphated to IS:1364(Part-2) '92 ISO:4017'88	08 Nos.
03	Hex. Hd. Screw M16 X40-8.8 Phosphated to IS:1364(Part-2) '92 ISO:4017'88	03 Nos.
04	Hex. Hd. Screw M16 X35-8.8 Phosphated to IS:1364(Part-2) '92 ISO:4017'88	02 Nos.
05	Hex. Hd. Bolt M12 X 90-8.8 Phosphated to IS:1364(Part-1) '92 ISO:4014'88	04 Nos.
06	Hex. Hd. Bolt M12 X 65-8.8 Phosphated to IS:1364(Part-1) '92 ISO:4014'88	08 Nos.
07	Hex. Hd. Bolt M12 X 50-8.8 Zn plated to IS:1364(Part-1) '92 ISO:4014'88	08 Nos.
08	Hex. Nut M16 -8 Zn plated to IS:1364(Part-3) '92 ISO:4032'86	02 Nos.
09	Hex. Nut M12 -8 Phosphated to IS:1364(Part-3) '92 ISO:4032'86	04 Nos.
10	Hex. Hd. Screw M18 X45-8.8 -Patch 2.5 (Cad plated) to IS:1364(Part-2) '92 ISO:4017'88	04 Nos.
11	Hex. Hd. Screw M24 X55 (Head height 15mm) 8.8 Phosphated to IS:1364(Part-2) '92 ISO:4017'88	06 Nos.
	Total	55 Nos.

∴ Qty / TM of "STANDARD HARDWARE KIT(HTM) " = 01 set

∴ In 01 set = (30+22+55) Nos. = 107 Nos.

	 <p>PRODUCT STANDARD TME DIVISION, BHOPAL</p> <p>TME/2011</p>	<p>TM 10462</p> <hr/> <p>PAGE 03 OF 03</p>
<p>COPYRIGHT AND CONFIDENTIAL</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>3. Special Condition :-</p> <ul style="list-style-type: none"> (a) Brands approved as per BHEL's approved vendors only are acceptable. (b) Dealers / Distributors should indicate their brand clearly along with their quotations. (c) Supplies will be acceptable with OEM's Guarantee / Test Certificate. (d) Dealers / Distributors of OEM if quoting should enclose dealership / distributorship certificate with validity given by OEM to prove the credential without which offers are liable to be summarily rejected. <p>4. Marking & Packing : Manufacturer's identification mark shall be provided on each item . 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> <p>5. <u>Inspection</u> :-</p> <p>Few Hardwares of each size shall be selected at random.</p> <p>6. This specification is equivalent to CLW spec. No. 4TMS.095.042</p>	

SHEET NO. 1 OF 3

SPECIFICATION FOR
'STANDARD HARDWARE KIT'
FOR
HITACHI TRACTION MOTOR

प्रमाण

SEED

डि.क.वर्मा

CHKD

सुम

DWN

ALT. NO.

Authority

Description

SPECIFICATION FOR
 'STANDARD'
 HARDWARE KIT FOR
 HITACHI TRACTION MOTOR.

BY CUST/NO.

CHITTARANJAN LOCOMOTIVES & CO. LTD.
 WEST BENGAL, INDIA

NO. 4TMS 095 042

DATE: 11.08.2024

4TMS 095.042

Signature Not
 Verified

Digitally signed by
 RANJAN KUMAR
 Date: 2022.04.08
 11:40:30 +05'30'

Reason: IIRPS-CRIS
 Location: New Delhi

4TMS 095.042

1. FOREWORD:-

This Specification covers the requirements of '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	5522/078	Hex. Socket Set Screw M 6 X 20-Phosphated to IS:6094'81-CP	15 nos.	Stocking C&D No.
02	5522/068	Hex. Socket Set Screw M 10 X 10-Phosphated to IS:6094'81-CP	15 nos.	is
Total (for Shop- 2308 only)			30 Nos	5522/031 (Shop-2308)
03	5582/003	Hex. Hd. Bolt- M 24 X 95- 8.8-Phosphated to IS:1364(Part-1)'92 ISO : 4014'88	12 nos.	Stocking C&D No.
04	5582/004	Hex. Hd. Screw- M 24 X 55 (Head Height 15 mm) 8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	05 nos.	is
05	5582/005	Hex. Hd. Screw- M 24 X 55 (Head Height 13 mm) 8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	01 no.	5582/015 (Shop-2106)
06	5560/614	Hex. Hd. Screw- M 20 X 55-8.8/10.9- Zn-Plated to IS:1364(Part-2)'92 ISO : 4017'88	04 nos.	
Total (for Shop- 2106 only)			22 nos.	
07	5570/209	Hex. Hd. Bolt- M 20 X 70- 8.8-Phosphated to IS:1364(Part-1)'92 ISO : 4014'88	06 nos.	Stocking C&D No.
08	5570/204	Hex. Hd. Screw- M 16 X 45-8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	98 nos.	is
09	5518/205	Hex. Hd. Screw- M 16 X 40-8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	03 nos.	5582/016 (Shop-2103)
10	5528/042	Hex. Hd. Screw- M 16 X 35-8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	02 nos.	
11	5565/782	Hex. Hd. Bolt- M 12 X 90- 8.8-Phosphated to IS:1364(Part-1)'92 ISO : 4014'88	04 nos.	
12	5560/601	Hex. Hd. Bolt- M 12 X 65- 8.8-Phosphated to IS:1364(Part-1)'92 ISO : 4014'88	08 nos.	
13	5560/605	Hex. Hd. Bolt- M 12 X 50- 8.8- Zn-Plated to IS:1364(Part-1)'92 ISO : 4014'88	08 nos.	
14	5565/802	Hex. Nut -M 16-8- Zn-Plated to IS:1364 (Part-3)'92 ISO : 4032'86	02 nos.	
15	5560/602	Hex. Nut -M 12-8- Phosphated to IS:1364 (Part-3)'92 ISO : 4032'86	04 nos.	
16	5528/041	Hex. Hd. Screw - M 18X45-8.8-Patch 2.5 (Cad Plated) to IS:1364 (Part-2)'92, ISO:4017'88	04 nos.	
17	5582/004	Hex. Hd. Screw- M 24 X 55 (Head Height 15 mm) 8.8-Phosphated to IS:1364(Part-2)'92 ISO : 4017'88	06 nos.	
Total (Shop-2103 only)			55 Nos.	

∴ Qty/TM of 'Standard Hardware KIT (HTM)' = 01 Set against Stocking C&D No. 5582/014.
∴ In 01 Set = (30 + 22 + 55) nos = 107 nos.

SPECIFICATION FOR
'STANDARD HARDWARE
KIT' FOR
HITACHI TRACTION
MOTOR.

DY. CH/TMD

CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA

NO. 4TMS.095.042
DATE: 16-05-2010

पूरा

SEE/TMD

डि. के. दास

CHKD.

DRN.

3. Special Condition:-

- Brands approved as per CLW's approved vendors only are acceptable.
- Dealers/ Distributors should indicate their brand clearly along with their quotations.
- Supplies will be acceptable with OEM's **Guarantee/Test Certificate**.
- Dealers / Distributors of OEM if quoting should enclose **dealership/ distributorship certificate** with validity given by OEM to prove the credential. without which offers are liable to be summarily rejected.


4. Marking & Packing:- Manufacturer's identification mark/ shall be provided on each item. 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. **5522/031** (for Shop-2308) & **5582/015** (for Shop-2106) & **5582/016** (for Shop-2103) 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 Hardwares of each size shall be selected at random.

पुणव	SEE/TMD
डि. के. बास	CHKD.
मुम	DRN.

SPECIFICATION FOR
**STANDARD
HARDWARE KIT** FOR
HITACHI TRACTION
MOTOR.


 DY.CEE/TMD

CHITTARANJAN LOCOMOTIVE WORKS
WEST BENGAL, INDIA

NO. 4TMS.095.042
DATE: 16 - 06 - 2010