

SPECIFICATION FOR SET OF DISTANCE BOLTS FOR WAG-9 ELECTRIC LOCOMOTIVES (COCO) & WAP-5

SPECIFICATION NO.

CLW/ES/3/184

ISSUE DATE: 05.08.1997

ENCLOSURES :

DRG. NO. : NIL

ISSUED BY:

DY. CHIEF ELECTRICAL ENGINEER/D/Conv.

CHITTARANJAN LOCOMOTIVE WORKS

P.O. CHITTARANJAN – 713331

DIST. BARDHAMAN (WEST), WEST BENGAL (INDIA)

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ALTERATION RECORD SHEET

ALT. No.	DATE OF AMENDMENT	PAGE NO.	ALTERATION No.	REASON		AUTHORITY
1	12.09.2001	4	A	AT SHEET NO. 4 (i) DISTANT BOLT M6 ii) HEX BOLT M6X65 ST ZN iii) SOCKET STUD M10X50/45 have been deleted and 6 new items of SL.No.1 to 6 have been added.		
2	29.11.2001	4 & 5	B	i) ANNEXURE-A have been deleted. ii) At Sheet No. 4 & 5 (New) two items have been added.		
3	07.11.2002	4 & 5	C	GR. OF STAINLESS STEEL HAVE BEEN CHANGED, DIMENSION OF ONE DISTANCE BOLT HAVE BEEN CHANGED.		
4	15.01.2003	2	D	DESCRIPTION	REASON	
				<p>Clause 5.2 (a) & (b) modified (regarding submission of chemical composition & metallurgical/mechanical properties certificates of OEM duly countersigned by supplier at the time of inspection / delivery of Material.)</p> <p>The word specification added to standards/ drawings of Clause 5.2 (b).</p> <p>Clause 5.2 (c) added (Documents of authenticity of purchase of material from OEM to be submitted by the supplier.)</p> <p>7. Marked portion deleted.</p>	<p>Based on CEE'S NOTE NO. CEE/6 (SL.No.2) Dt. 17.12.02.</p>	

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SL. No.	DATE OF AMENDMENT	PAGE No.	ALTERATION No.	DESCRIPTION	REASON	AUTHORITY
5.	12.08.2005	7	E	QTY/LOCO COLUMN FROM THE SPECIFICATION ANNEXURE SHEET NO. – 7 DELETED.	AS DECIDED BY COMPETENT AUTHORITY FOR EASY PROCUREMENT.	
6.	28.02.2008	4	F	Item at Sl. No. 9 & 10 added on Sheet No. 4.	To update Specn. as per Cat. Book.	

Specification have been digitized and all alterations have been incorporated

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TECHNICAL SPECIFICATION OF SET OF DISTANCE BOLTS

1. SCOPE:

This specification covers the minimum requirement of design, manufacturing, testing and supply of set of distance bolts.

2. SCOPE OF SUPPLY:

1 (One) set shall consist of all the items indicated at Annexure-A. Quantity of each item per set shall be equal to quantity per loco as indicated at Annexure – A.

3. TECHNICAL REQUIREMENT:

All the items shall be manufactured, tested and supplied as per the standard, property class (if indicated) and material indicated at the Annexure – A.

4. INSPECTION AND ACCEPTANCE :

As per IS: 1367 (Part 17)

5. SUPPLY OF DOCUMENTS (APART FROM THOSE INDICATED ON BID DOCUMENTS):

5.1 ALONG WITH TENDER OFFER:

a) As indicated

b) Firm's capability and past experience in supplying high quality fasteners/hardware to Indian Railways/Automobile Industry/General Industry.

5.2 ALONG WITH SUPPLIES:

A) Certificate about standards, grade, property class, material, zinc plating (passivated) as applicable. (OEM test certificates regarding chemical composition and metallurgical/mechanical properties).

b) All the test certificates as mentioned in the relevant standards/drawings/specification.

c) Supplier other than OEM should deliver the material along with supporting documents of material being purchased from OEM.

6. QUALITY ASSURANCE :

As per ISO 9000.

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Page 5 of 9	SPECIFICATION No. CLW/ES/3/184	ALT. F
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7. MARKING:

Individual fastener/hardware shall have size, grade and property class (if applicable), Manufacturer's Trade Mark and Batch No. embossed on them.

8. GUARANTEE:

Each fastener/hardware shall be guaranteed for 6 (Six) years from the date of supply and 5 (five) years from fitment, whichever is earlier. Any fastener/hardware failing during the above period shall be replaced free of cost.

9. PACKING:

As per IS : 1367 (Part 18).

10. NOTE:

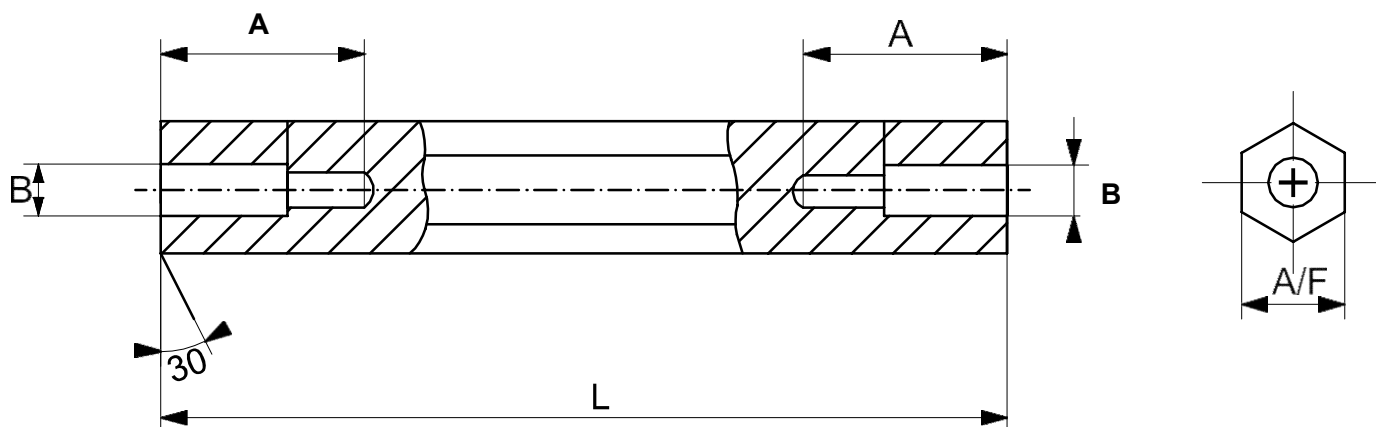
Tenderer may submit quotation for a part of the total set but they should clearly indicate the breakup cost for individual item.

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MATERIAL LIST FOR DISTANT BOLTS & STUD BOLTS

SL. NO.	DESCRIPTION	IDEN. NO.	STANDARD	MATERIAL
1.	DISTANT BOLT M4X60	3EHP431365P0001	DIN 931 ISO 4014	STAINLESS STEEL 304
2.	DISTANT BOLT M5X80	3EHP431366P0001	DIN 931 ISO 4014	STAINLESS STEEL 304
3.	DISTANT BOLT M8X30	3EHP431369P0001	DIN 931 ISO 4014	STAINLESS STEEL 304
4.	STUD BOLT M5X300 SST	3EHP431106P0001	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304
5.	STUD BOLT M10X40 SST	3EHP431111P0001	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304
6.	STUD BOLT M10X150 SST	3EHP179000P0013	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304
7.	STUD BOLT M8X120 SST	3EHP130272P5198	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304
8.	DISTANT BOLT M6X40 SST	3EHP431367P0001	DIN 931 ISO 4014	STAINLESS STEEL 304
9.	STUD BOLT M8X100 SST	-----	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304
10.	STUD BOLT M8X200 SST	-----	DIN 931 ISO 4014 DIN 976	STAINLESS STEEL 304

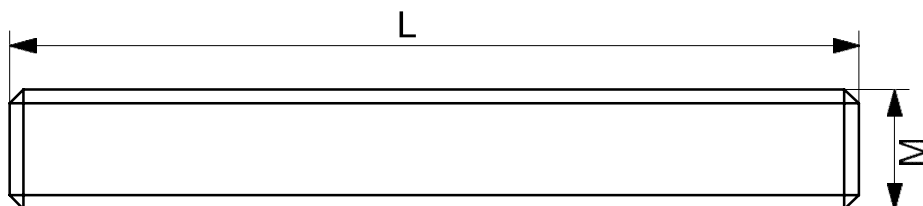
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ACHYUT KUMAR	Digitally signed by ACHYUT KUMAR Date: 2023.01.30 11:58:43 +05'30'	ACHYUT KUMAR	Digitally signed by ACHYUT KUMAR Date: 2023.01.30 11:58:52 +05'30'	SYAMA PRASAD PATRA	Digitally signed by SYAMA PRASAD PATRA Date: 2023.01.30 12:24:02 +05'30'
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DIMENSIONS OF DISTANT BOLT

IDEN. NO.	L	A/F	B	A
3EHP431365P0001	60	8	M4X10	12
3EHP431366P0001	80	8	M5X10	12
3EHP431369P0001	30	12	M8X10	12
3EHP431367P0001	40	8	M6X10	12

***ALL DIMENSIONS ARE IN MM.**



DIMENSIONS OF STUD BOLT

IDEN. NO.	LENGTH	DIAMETER
3EHP431106P0001	300	M5
3EHP431111P0001	40	M10
3EHP179000P0013	150	M10
3EHP130272P5198	120	M 8

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ANNEXURE – A

REPRODUCTION OF PAGE 12 OF 96 OF Doc. No. ELDD/3637 For WAG/9 Locos.

Version:- 1

SL No.	EXTENDED CAT. NO.	Description	C&D NO.	ABB_Drg. No.	CLW Drg./Specn. No.	Qty/ C&D	UNIT	Q/L	Stock No.	U.L. No.
1.	L/9/0018	DISTANCE BOLT			CLW/ES/3/184 Alt.-D		03	1 Set	T035/406	263001380315L
2.	L9/006/0018	DISTANCE BOLT M6x40 SST	T035/406	3EHP431367P0001		12	01	12		
3.	L9/010/0018	STUD BOLT M8x120 SST	T035/408	3EHP130272P5198		7	01	7		
4.	L9/011/0018	DISTANCE BOLT M4x60 SST	T035/420	3EHP431365P0001		12	01	12		
5.	L9/012/0018	DISTANCE BOLT M5x80	T035/421	3EHP431366P0001		24	01	24		
6.	L9/019/0018	STUD BOLT M10x150 SST	T035/475	3EHP179000P0013		4	01	4		
7.	L9/020/0018	STUD BOLT M5x300 SST	T035/476			1	01	1		
8.	L9/021/0018	DISTANCE BOLT M8x30	T035/477			4	01	4		
9.	L9/022/0018	STUD BOLT M8x100 SST	T035/502			7	01	7		

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Page 9 of 9	SPECIFICATION No. CLW/ES/3/184	ALT. F
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ANNEXURE – A
(REPRODUCTION OF PAGE 12 OF 96 OF DOC. NO. ELDD/3637 FOR WAG/9 LOCOS)
VERSION - 1

SL. No.	EXTENDED CAT. NO.	DESCRIPTION	C & D No.	ABB DRG. NO.	CLW DRG./SPECN NO.	STOCK NO.	U.L. NO.
1.	L/9/0018	DISTANCE BOLT			CLW/ES/3/184 ALT. - F	T035/406	263001380315L
2.	L9/006/0018	DISTANCE BOLT M6x40 SST	T035/406	3EHP431367P0001			
3.	L9/010/0018	STUD BOLT M8x120 SST	T035/408	3EHP130272P5198			
4.	L9/011/0018	DISTANCE BOLT M4x60 SST	T035/420	3EHP431365P0001			
5.	L9/012/0018	DISTANCE BOLT M5x80	T035/421	3EHP431366P0001			
6.	L9/019/0018	STUD BOLT M10x150 SST	T035/475	3EHP179000P0013			
7.	L9/020/0018	STUD BOLT M5x300 SST	T035/476				
8.	L9/021/0018	DISTANCE BOLT M8x30	T035/477				
9.	L9/022/0018	STUD BOLT M8x100 SST	T035/502				
10.	L9/023/0018	STUD BOLT M8x200 SST	T035/518				
11.	L9/024/0018	STUD BOLT M10x40 SST	T035/519				

This page is the reflection of Qty. of items as depicted in Category book (approved).

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