

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD. KOLKATA
(A Govt. of India Enterprise)
HSFG BOLT ORDER LIST FOR SITE

MADE BY - G.Sen
CHECKED BY- A.K.SAHA
DATE - 25.02.2019

ORDER NO.- HSF/SITE/2151/18.3/01
RDSO'S DRG.NO.-
ORDER NO.- 2151

PROJECT: **50x 18.3 M SPANS 25T LOADING WELDED TRUSS GIRDER BR. NO.- 63D, GADAG- HOTGI DOUBLING PROJECT, SOUTH WESTERN RAILWAY** REV.- A DATE: 28/03/2019

Gross Nos. For 50 Nos. Span	Gross Nos. For 1 No. Span	BOLT HEAD & NUT TYPE	THREAD TYPE	GRIP	THREAD LENGTH (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSF BOLTS, NUTS, PLAIN WASHER, DTI WASHER & Extra Plain Washer (FOR 50 x18.3 M SPANS)							
ORDER QTY							
WITH 5% EXTRA							
5445	605	HEX.	M20	136	35	175	EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT.
2718	302	HEX.	M20	60	35	100	
4914	546	HEX.	M20	40	35	80	
828	92	HEX.	M20	38	35	75	
153	17	HEX.	M20	34	35	75	
450	50	HEX.	M20	24	35	65	
306	34	HEX.	M20	22	35	60	
741	Extra 5% PLAIN WASHER FOR M20 BOLT						
741	Extra 5% DTI WASHER FOR M20 BOLT						

NOTE:-

- ALL BOLTS ARE HSF BOLTS OF CL-8.8 (AS PER RDSO. DRG. NO. B-11760/R) CONFORMING TO IS:4000 (1992), IS: 3757(1985) (REAFFIRMED 2003).
- ALL NUTS ARE CONFORMING TO IS:6623(2004) & IS:1367(PART-6) AND PLAIN/TAPER WASHERS (for ISMC) ARE CONFORMING TO IS:6649.
- EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN/TAPER WASHER (As Required) & ONE HEX. HD. NUT.
- ALL BOLTS, NUTS & WASHERS MUST HAVE IDENTIFICATION MARK & MANUFACTURER'S SYMBOL & PROPERTY CLASS.
- ALL BOLTS, NUTS & WASHERS MUST HAVE MANUFACTURER'S TEST CERTIFICATE IN ADDITION THREE SETS OF RANDOM SAMPLE CONSISTING OF 1 NO. Hex. HD. BOLT+Hex. HD. NUT+PLAIN WASHER/TAPER FROM EACH LOT TO BE SENT TO REPUTED INDEPENDENT NABL ACCREDITED LABORATORY.
- ALL BOLTS, NUTS & WASHERS SHOULD HAVE COATING OF ZINC PHOSPHATE AS PER IS 1367 (PART-XII).
- BOLT LENGTH WITH RESPECT TO GRIP & OTHER ALL DIMENSIONAL DETAILS TO BE VERIFIED BY THE PARTY PRIOR TO APPROVAL OF MANUFACTURING.
- DIMENSIONAL DETAILS TO BE PROVIDED BY THE PARTY FOR PRIOR APPROVAL BEFORE MANUFACTURE.

REV: Dimension 75 was 70

Requisition No:- D/2810

Date: 28/02/2019

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28/02/19

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD. KOLKATA
(A Govt. of India Enterprise)
HSFG BOLT ORDER LIST FOR SITE

MADE BY - G.Sen
CHECKED BY- A.K.SAHA
DATE - 25.02.2019

ORDER NO.- HSF/SITE/3132/45.7/01
RDSO'S DRG.NO.-
ORDER NO.- 3132
REV.- A DATE: 28/03/2019

PROJECT: 9 x 45.7 M SPANS 25T LOADING WELDED TRUSS GIRDER BR. NO.- 63D, GADAG-
HOTGI DOUBLING PROJECT, SOUTH WESTERN RAILWAY

Gross Nos. For 9 Nos. Span	Gross Nos. For 1 No. Span	BOLT HEAD & NUT TYPE	THREAD TYPE	GRIP	THREAD LENGTH (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSF BOLTS, NUTS, PLAIN WASHER/ TAPER WASHER, DTI WASHER & Extra Plain Washer (FOR 9 x 45.7 M SPANS)							
ORDER QTY							
WITH 5% EXTRA							
10755	1195	HEX.	M20	20,22	35	60	EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT.
990	110	HEX.	M20	26	35	65	
1134	126	HEX.	M20	30	35	70	
1512	168	HEX.	M22	19	40	60	EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT
3636	404	HEX.	M22	20, 22	40	65	
22230	2470	HEX.	M22	26, 28	40	70	
24840	2760	HEX.	M22	30, 32, 34	40	75	
6651	739	HEX.	M22	35, 36,38	40	80	
9072	1008	HEX.	M22	40, 42, 44	40	85	
9135	1015	HEX.	M22	45, 46, 48	40	90	
1215	135	HEX.	M22	52, 54	40	95	
675	75	HEX.	M22	55	40	100	
918	102	HEX.	M22	62	40	105	
3591	399	HEX.	M22	76	40	120	
450	50	HEX.	M22	25	45	70	EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE TAPER WASHER & ONE HEX. HD. NUT
644	Extra 5% PLAIN WASHER FOR M20 BOLT						
644	Extra 5% DTI WASHER FOR M20 BOLT						
4174	Extra 5% PLAIN WASHER FOR M22 BOLT						
4174	Extra 5% DTI WASHER FOR M22 BOLT						
25	Extra 5% TAPER WASHER FOR M22 BOLT						

NOTE:-

- ALL BOLTS ARE HSF BOLTS OF CL-8.8 (AS PER RDSO. DRG. NO. B-11760/R) CONFORMING TO IS:4000 (1992), IS: 3757(1985) (REAFFIRMED 2003).
- ALL NUTS ARE CONFORMING TO IS:6623(2004) & IS:1367(PART-6) AND PLAIN/TAPER WASHERS (for ISMC) ARE CONFORMING TO IS:6649.
- EACH HSF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN/TAPER WASHER (As Required) & ONE HEX. HD. NUT.
- ALL BOLTS, NUTS & WASHERS MUST HAVE IDENTIFICATION MARK & MANUFACTURER'S SYMBOL & PROPERTY CLASS.
- ALL BOLTS, NUTS & WASHERS MUST HAVE MANUFACTURER'S TEST CERTIFICATE IN ADDITION THREE SETS OF RANDOM SAMPLE CONSISTING OF 1 NO. Hex. HD. BOLT+Hex. HD. NUT+PLAIN WASHER/TAPER FROM EACH LOT TO BE SENT TO REPUTED INDEPENDENT NABL ACCREDITED LABORATORY.
- ALL BOLTS, NUTS & WASHERS SHOULD HAVE COATING OF ZINC PHOSPHATE AS PER IS 1367 (PART-XII).
- BOLT LENGTH WITH RESPECT TO GRIP & OTHER ALL DIMENSIONAL DETAILS TO BE VERIFIED BY THE PARTY PRIOR TO APPROVAL OF MANUFACTURING.
- DIMENSIONAL DETAILS TO BE PROVIDED BY THE PARTY FOR PRIOR APPROVAL BEFORE MANUFACTURE.

REV:- Dimension 45 was 40

Requisition No:- D/2810

Date: 28/02/2019

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29/03/19

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD. KOLKATA
(A Govt. of India Enterprise)
HSFG BOLT ORDER LIST FOR SHOP

MADE BY - G.Sen
CHECKED BY- A.K.SAHA
DATE - 25.02.2019
PROJECT: 9 x 45.7 M SPANS 25T LOADING WELDED TRUSS GIRDER BR. NO.- 63D, GADAG-
HOTGI DOUBLING PROJECT, SOUTH WESTERN RAILWAY

SHOP
ORDER NO.- HSFGE/ITE/2151/45.7/01
RDSO'S DRG.NO.-
ORDER NO.- 2151
REV.- A DATE: 28/03/2019

Gross Nos. For 9 Nos. Span	Gross Nos. For 1 No. Span	BOLT HEAD & NUT TYPE	THREAD TYPE	GRIP	THREAD LENGTH (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSFG BOLTS, NUTS, PLAIN WASHER/ TAPER WASHER, DTI WASHER & Extra Plain Washer (FOR 9 x 45.7 M SPANS)							
ORDER QTY							
WITH 5% EXTRA							
855	95	HEX.	M20	20	35	60	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT.
3402	378	HEX.	M20	30	35	70	
6048	672	HEX.	M20	40	35	80	
954	106	HEX.	M16	30	35	65	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT
515	Extra 5% PLAIN WASHER FOR M20 BOLT						
515	Extra 5% DTI WASHER FOR M20 BOLT						
48	Extra 5% PLAIN WASHER FOR M16 BOLT						
48	Extra 5% DTI WASHER FOR M16 BOLT						

NOTE:-

- ALL BOLTS ARE HSFG BOLTS OF CL-8.8 (AS PER RDSO. DRG. NO. B-11760/R) CONFORMING TO IS:4000 (1992), IS: 3757(1985) (REAFFIRMED 2003).
- ALL NUTS ARE CONFORMING TO IS:6623(2004) & IS:1367(PART-6) AND PLAIN/TAPER WASHERS (for ISMC) ARE CONFORMING TO IS:6649.
- EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN/TAPER WASHER (As Required) & ONE HEX. HD. NUT.
- ALL BOLTS, NUTS & WASHERS MUST HAVE IDENTIFICATION MARK & MANUFACTURER'S SYMBOL & PROPERTY CLASS.
- ALL BOLTS, NUTS & WASHERS MUST HAVE MANUFACTURER'S TEST CERTIFICATE IN ADDITION THREE SETS OF RANDOM SAMPLE CONSISTING OF 1 NO. Hex. HD. BOLT+Hex. HD. NUT+PLAIN WASHER/TAPER FROM EACH LOT TO BE SENT TO REPUTED INDEPENDENT NABL ACCREDITED LABORATORY.
- ALL BOLTS, NUTS & WASHERS SHOULD HAVE COATING OF ZINC PHOSPHATE AS PER IS 1367 (PART-XII).
- BOLT LENGTH WITH RESPECT TO GRIP & OTHER ALL DIMENSIONAL DETAILS TO BE VERIFIED BY THE PARTY PRIOR TO APPROVAL OF MANUFACTURING.
- DIMENSIONAL DETAILS TO BE PROVIDED BY THE PARTY FOR PRIOR APPROVAL BEFORE MANUFACTURE.

REV:- Dimension 35 was 40

Requisition No:- D/2810

Date: 28/02/2019

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29/03/19

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD.
(A Govt. of India Enterprise)
HSFG BOLT ORDER LIST FOR SHOP

MADE BY - G.Sen
CHECKED BY- A.K.SAHA
DATE - 30.11.2018

ORDER NO.- HSGF/SHOP/2151/30.5/01
RDSO'S DRG.NO.-
ORDER NO.- 2151
REV.- DATE:

PROJECT: 12 x 30.5 M SPAN 25T LOADING WELDED TRUSS GIRDER AT GADAG- HOTGI DOUBLING PROJECT, S.W. RAILWAY

	Gross Nos. For 12 Nos. Span	Gross Nos. For 1 No. Span	BOLT HEAD & NUT TYPE	THREAD TYPE	GRIP (in mm)	THREAD LENGTH (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSGF BOLTS, NUTS, PLAIN WASHER, TAPER WASHER, DTI WASHER & Extra Plain Washer (FOR 12 x. 30.5 M. SPAN)								
	ORDER QTY							
	WITH 5% EXTRA							
	4180	110	HEX.	M16	30	35	65	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT.
	12388	326	HEX.	M20	30	35	65	
	19152	504	HEX.	M20	20	35	55	
	209	Extra 5% PLAIN WASHER FOR M16 BOLT						
	1577	Extra 5% PLAIN WASHER FOR M20 BOLT						

NOTE:-

- ALL BOLTS ARE HSGF BOLTS OF CL-8.8 (AS PER RDSO. DRG. NO. B-11760/R) CONFORMING TO IS:4000 (1992), IS: 3757(1985) (REAFFIRMED 2003).
- ALL NUTS ARE CONFORMING TO IS:6823(2004) & IS:1367(PART-6) AND PLAIN/TAPER WASHERS (for ISMC) ARE CONFORMING TO IS:6649.
- EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN/TAPER WASHER (As Required) & ONE HEX. HD. NUT.
- ALL BOLTS, NUTS & WASHERS MUST HAVE IDENTIFICATION MARK & MANUFACTURER'S SYMBOL & PROPERTY CLASS.
- ALL BOLTS, NUTS & WASHERS MUST HAVE MANUFACTURER'S TEST CERTIFICATE IN ADDITION THREE SETS OF RANDOM SAMPLE CONSISTING OF 1 NO. Hex. HD. BOLT+Hex. HD. NUT+PLAIN WASHER/TAPER FROM EACH LOT TO BE SENT TO REPUTED INDEPENDENT NABL ACCREDITED LABORATORY.
- ALL BOLTS, NUTS & WASHERS SHOULD HAVE COATING OF ZINC PHOSPHATE AS PER IS 1367 (PART-XII).
- BOLT LENGTH WITH RESPECT TO GRIP & OTHER ALL DIMENSIONAL DETAILS TO BE VERIFIED BY THE PARTY PRIOR TO APPROVAL OF MANUFACTURING.
- DIMENSIONAL DETAILS TO BE PROVIDED BY THE PARTY FOR PRIOR APPROVAL BEFORE MANUFACTURE.

Requisition No:-

D/2863

Date:

26/03/2019

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD.

(A Govt. of India Enterprise)
HSFG BOLT ORDER LIST FOR SITE

MADE BY - G.Sen
CHECKED BY- A.K.SAHA
DATE - 30.11.2018
PROJECT:

ORDER NO.- HSGF/SITE/3132/30.5/01
RDSO'S DRG.NO.-
ORDER NO.- 3132
REV.- DATE:

12 x 30.5 M SPAN 25T LOADING WELDED TRUSS GIRDER AT GADAG- HOTGI DOUBLING PROJECT, BRIDGE NO- 08, S.W. RAILWAY

Gross Nos. For 12 Nos. Span	Gross Nos. For 1 No. Span	BOLT HEAD & NUT TYPE	THREAD TYPE	GRIP (in mm)	THREAD LENGTH (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSGF BOLTS, NUTS, PLAIN WASHER/TAPER WASHER, DTI WASHER (FOR 12 x. 30.5 M. SPAN)							
ORDER QTY							
With 5% Extra	With 5% Extra						Remarks
432	36	HEX.	M16	30	35	60	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT.
900	75	HEX.	M20	26, 30	35	65	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT.
144	12	HEX.	M20	22	35	60	
7908	659	HEX.	M20	20	35	55	
480	40	HEX.	M22	24	45	70	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE TAPER WASHER & ONE HEX. HD. NUT.
10152	846	HEX.	M22	18, 20	40	60	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT.
16080	1340	HEX.	M22	26	40	65	
11724	977	HEX.	M22	28, 30	40	70	
13068	1089	HEX.	M22	32, 36	40	75	
240	20	HEX.	M22	38	40	80	
6192	516	HEX.	M22	42, 46	40	85	
2016	168	HEX.	M22	52	40	90	
3720	310	HEX.	M22	62	40	105	
4608	384	HEX.	M22	68	40	110	
660	55	HEX.	M22	84	40	125	
22	Extra 5% PLAIN WASHER FOR M16 BOLT						
448	Extra 5% PLAIN WASHER FOR M20 BOLT						
3423	Extra 5% PLAIN WASHER FOR M22 BOLT						
24	Extra 5% TAPER WASHER FOR M22 BOLT						
NOTE:-							
1. ALL BOLTS ARE HSGF BOLTS OF CL-8.8 (AS PER RDSO. DRG. NO. B-11760/R) CONFORMING TO IS:4000 (1992), IS: 3757(1985) (REAFFIRMED 2003).							
2. ALL NUTS ARE CONFORMING TO CL-8, IS:6623(2004) & IS:1367(PART-6) AND PLAIN/TAPER WASHERS (for ISMC) ARE CONFORMING TO IS:6649.							
3. EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN/TAPER WASHER (As Required) & ONE HEX. HD. NUT.							
4. ALL BOLTS, NUTS & WASHERS MUST HAVE IDENTIFICATION MARK & MANUFACTURER'S SYMBOL & PROPERTY CLASS.							
5. ALL BOLTS, NUTS & WASHERS MUST HAVE MANUFACTURER'S TEST CERTIFICATE IN ADDITION THREE SETS OF RANDOM SAMPLE CONSISTING OF 1 NO. Hex. HD. BOLT+Hex. HD. NUT+PLAIN WASHER/TAPER FROM EACH LOT TO BE SENT TO REPUTED INDEPENDENT NABL ACCREDITED LABORATORY.							
6. ALL BOLTS, NUTS & WASHERS SHOULD HAVE COATING OF ZINC PHOSPHATE AS PER IS 1367 (PART-XII).							
7. BOLT LENGTH WITH RESPECT TO GRIP & OTHER ALL DIMENSIONAL DETAILS TO BE VERIFIED BY THE PARTY PRIOR TO APPROVAL BEFORE MANUFACTURING.							

Requisition No:- D/2863 Date: 26/03/2019