

Sl.	Item Description	Dia	Length (mm)	Qty	Unit
1	SITE HSFG BOLT M20×85	M20	85	478	Sets
2	SITE HSFG BOLT M20×100	M20	100	296	Sets
3	SITE HSFG BOLT M20×180	M20	180	594	Sets
4	SITE HSFG BOLT M22×65	M22	65	230	Sets
5	SITE HSFG BOLT M22×75	M22	75	34	Sets
6	SITE HSFG BOLT M22×80	M22	80	272	Sets
7	SITE HSFG BOLT M22×85	M22	85	116	Sets
8	SITE HSFG BOLT M20×60	M20	60	4320	Sets
9	SITE HSFG BOLT M20×65	M20	65	1170	Sets
10	SITE HSFG BOLT M20×70	M20	70	450	Sets
11	SITE HSFG BOLT M22×60	M22	60	1170	Sets
12	SITE HSFG BOLT M22×65	M22	65	6570	Sets
13	SITE HSFG BOLT M22×70	M22	70	12600	Sets
14	SITE HSFG BOLT M22×75	M22	75	5805	Sets
15	SITE HSFG BOLT M22×80	M22	80	11160	Sets
16	SITE HSFG BOLT M22×85	M22	85	4050	Sets
17	SITE HSFG BOLT M22×90	M22	90	1845	Sets
18	SITE HSFG BOLT M22×95	M22	95	2610	Sets
19	SITE HSFG BOLT M22×105	M22	105	180	Sets
20	SITE HSFG BOLT M22×110	M22	110	7920	Sets
21	SITE HSFG BOLT M22×125	M22	125	720	Sets
22	SITE HSFG BOLT M22×70	M22	70	360	Sets
Sub-Total – Bolt Sets				62,950	Sets
23	SHOP HSFG BOLT M16×65	M16	65	990	Sets
24	SHOP HSFG BOLT M20×60	M20	60	4500	Sets
25	SHOP HSFG BOLT M20×70	M20	70	3240	Sets
Sub-Total – Bolt Sets				8,730	Sets
Total – Bolt Sets				71,680	Sets

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD.

(A Govt. of India Enterprise)

HSFG BOLT ORDER LIST FOR SHOP

MADE BY - S.Samanta

CHECKED BY- A.K.S

DATE - 05.02.2026

PROJECT: (1+4+4)=9x30.5 M. OPEN WEB GIRDER , 25T. AXLE LOADING)
FOR BR. NO.- 1373 DN,1496 UP,1496 DN FOR WALTAIR
DIVISION .

SHEET NO.- HSGF/SHOP/2162/30.5M/01

RDSO'S DRG.NO.- RDSO/B-17161 To 17176

ORDER NO.- 2162

REV.-

DATE:

Gross Nos. For 9 Nos. Span	Gross Nos. For 1 No. Span	Net Nos. For 1 No. Span	Bolt Head & Nut Type	Thread Type	Thread Length (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSGF BOLTS, ONE DTI WASHER, ONE PLAIN WASHER / TAPER WASHER & ONE NUT FOR (9 x 30.5 M SPAN)							
	ORDER QTY.						
990	110	102	HEX.	M16	38	65	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT.
TOTAL NOS =							
990	110						
4500	500	480	HEX.	M20	46	60	EACH HSGF HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT
3240	360	343	HEX.	M20	46	70	
TOTAL NOS =							
7740	860						
TOTAL NOS =							
990	110						PLAIN WASHER FOR M16 BOLT
990	110						DTI WASHER FOR M16 BOLT
7740	860						PLAIN WASHER FOR M20 BOLT
7740	860						DTI WASHER FOR M20 BOLT

NOTE :-

1. ALL HSGF BOLTS ARE CL-8.8 & NUTS ARE 8 /AS PER RDSO. DRG. NO. B-11760/R1 AND EN 14399-1 To EN 14399-9 .
2. ALL DTI WASHER AS PER EN 14399-9 & PLAIN WASHERS AS PER EN 14399-5 & TAPER WASHER AS PER IS: 5372 & 5374.
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. SURFACE FINISH OF ALL BOLTS, NUTS & WASHERS WITH ZINC FLAKE COATING AS PER ISO 10683 SHOULD BE DONE.

Requisition No:-D/ 2358

Date: 11/02/2026

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD.

(A Govt. of India Enterprise)

HSFG BOLT ORDER LIST FOR SITE

MADE BY - S. Samanta

CHECKED BY- A.K.S

DATE - 05.02.2026

PROJECT: (1+4+4)=9x30.5 M. OPEN WEB GIRDER ,(25T. AXLE LOADING)

FOR BR. NO.- 1373 DN,1496 UP,1496 DN FOR WALTAIR
DIVISION .

SHEET NO.- HSFG/SITE/3143/30.5M/01

RDSO'S DRG.NO.- RDSO/B-17161 To 17176

ORDER NO.- 3143

REV.-

DATE:

Gross Nos. For 9 Nos. Span	Gross Nos. For 1 No. Span	Net Nos. For 1 No. Span	Bolt Head & Nut Type	Thread Type	Thread Length (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
EX. HD. HSFG BOLTS, ONE DTI WASHER, ONE PLAIN WASHER / TAPER WASHER & ONE NUT FOR (9 x 30.5 M SPAN							
	ORDER QTY.						
4320	480	460	HEX.	20	46	60	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT
1170	130	120	HEX.	20	46	65	
450	50	48	HEX.	20	46	70	
TOTAL NOS =							
5940	660						
1170	130	120	HEX.	22	50	60	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE PLAIN WASHER & ONE HEX. HD. NUT
6570	730	712	HEX.	22	50	65	
12600	1400	1356	HEX.	22	50	70	
5805	645	596	HEX.	22	50	75	
11160	1240	1204	HEX.	22	50	80	
4050	450	424	HEX.	22	50	85	
1845	205	192	HEX.	22	50	90	
2610	290	272	HEX.	22	50	95	
180	20	16	HEX.	22	50	105	
7920	880	844	HEX.	22	50	110	
720	80	72	HEX.	22	50	125	
TOTAL NOS =							
54630	6070						
360	40	36	HEX.	22	50	70	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER, ONE TAPER WASHER & ONE HEX. HD. NUT
TOTAL NOS =							
360	40						
TOTAL NOS =							
5940	660						PLAIN WASHER FOR M20 BOLT
5940	660						DTI WASHER FOR M20 BOLT
54630	6070						PLAIN WASHER FOR M22 BOLT
54630	6070						DTI WASHER FOR M22 BOLT
360	40						TAPER WASHER FOR M22 BOLT
360	40						DTI WASHER FOR M22 BOLT

NOTE:-

- ALL HSFG BOLTS ARE CL-8.8 & NUTS ARE 8 /AS PER RDSO. DRG. NO. B-11760/R1 AND EN 14399-1 To EN 14399-9 .
- ALL DTI WASHER AS PER EN 14399-9 & PLAIN WASHERS AS PER EN 14399-5 & TAPER WASHER AS PER IS: 5372 & 5374.
- 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.
- SURFACE FINISH OF ALL BOLTS, NUTS & WASHERS WITH ZINC FLAKE COATING AS PER ISO 10683 SHOULD BE DONE.

Requisition No:- D/ 2358

Date: 11/02/2026

THE BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD.

(A Govt. of India Enterprise)

HSFG BOLT ORDER LIST FOR SITE

MADE BY : S. Samanta

CHECKED BY : A.K.S

DATE : 05.02.2026

PROJECT: (1+1)=2x18.3 M. WELDED GIRDER ,(25T. AXLE LOADING) FOR
BR. NO.- 1337A UP & 1337A DN FOR WALTAIR DIVISION .

SHEET NO.- HSFG/SITE/3143/18.3M/02

RDSO'S DRG.NO.- RDSO/B-16015/R1 To 16015/4R1

ORDER NO.- 3143

REV.- A

DATE: 05.05.26

Gross Nos. For 2 Nos. Span	Gross Nos. For 1 No. Span (3%Addl)	Net Nos. For 1 No. Span	Bolt Head & Nut Type	Thread Type	Thread Length (IS:3757) (in mm)	Bolt Length Provided (in mm)	REMARKS
HEX. HD. HSFG BOLTS, DTI WASHER, PLAIN WASHER/ TAPER WASHER & NUTS FOR (2 x 18.3 M SPAN)							
ORDER QTY.							
478	239	232	HEX.	M20	46	85	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT
296	148	144	HEX.	M20	46	100	
594	297	288	HEX.	M20	52	180	
TOTAL NOS =							
1368	684	664					
230	115	112	HEX.	M22	50	65	EACH HSFG HEX. HD. BOLT CONSIST OF ONE DTI WASHER , ONE PLAIN WASHER & ONE HEX. HD. NUT
34	17	16	HEX.	M22	50	75	
272	136	132	HEX.	M22	50	80	
116	58	56	HEX.	M22	50	85	
TOTAL NOS =	58						
652	384	316					

NOTE:-

1. ALL HSFG BOLTS ARE CL-8.8 & NUTS ARE 8 /AS PER RDSO. DRG. NO. B-11760/R1 AND EN 14399-1 To EN 14399-9 .
2. ALL DTI WASHER AS PER EN 14399-9 & PLAIN WASHERS AS PER EN 14399-5 & TAPER WASHER AS PER IS: 5372 & 5374.
3. EACH HSFG 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. SURFACE FINISH OF ALL BOLTS, NUTS & WASHERS WITH ZINC FLAKE COATING AS PER ISO 10683 SHOULD BE DONE.

Requisition No:- D/ 2359

Date: 11/02/2026

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05/05/26