

Fax : 0522-2452581/2465716
Telephone : 0522-2465716
e-mail:dsetm@rdso.railnet.gov.in



भारतसरकार-रेलमंत्रालय
अनुसंधानअभिकल्पऔरमानकसंगठन
लखनऊ- 226011

Government of India - Ministry of Railways
Research, Designs & Standards Organization,
Lucknow - 226011

No. EL/2.2.13

Date: 28.11.2018

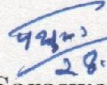
प्रमुख विद्युत अभियंता,	Principal Chief Electrical Engineers,
1. मध्य रेलवे, मुम्बई सीएसटी-400 001	1. Central Railway, Mumbai, CST-400 001.
2. पूर्व मध्य रेलवे, हाजीपुर-844 101	2. East Central Railway, Hazipur-844 101.
3. पूर्वतटीय रेलवे, चन्द्रशेखरपुर, भुवनेश्वर-751 017	3. East Coast Railway, Chandrashekharpur, Bhubaneswar -751 017
4. पूर्वरेलवे, फेयर्ली प्लेस, कोलकाता-700 001	4. Eastern Railway, Fairlie Place, Calcutta-700 001.
5. उत्तर मध्य रेलवे, ब्लॉक ए-2, सुबेदारगंज इलाहाबाद-211 033	5. North Central Railway, Block-A, Subedarganj, Allahabad- 211 033.
6. उत्तर रेलवे, बड़ौदा हाऊस, नई दिल्ली-110 001	6. Northern Railway, Baroda House, New Delhi-110 001.
7. उत्तर पश्चिम रेलवे जयपुर- 302006	7. North Western Railway, Jaipur- 302 006
8. उत्तरपूर्वरेलवेगोरखपुर- 273 001	8. North Eastern Railway, Gorakhpur-273001
9. उत्तर पूर्व फ्रेन्टीयर रेलवे मालीगॉव गुवाहाटी-781011	9. North East Frontier Railway, Maligaon, Guwahati-781011
10. दक्षिण मध्य रेलवे, रेलनिलायम, सिकंदराबाद-500 371	10. South Central Railway, Secunderabad-500 071.
11. दक्षिण पूर्व मध्य रेलवे, बिलासपुर- 495 004	11. South East Central Railway, Bilaspur-495 004.
12. दक्षिण पूर्व रेलवे, गार्डनरीच, कोलकाता-700 043	12. South Eastern Railway, Garden Reach, Kolkata-700 043.
13. दक्षिणरेलवे, पार्कटाउन, चेन्नई-600 003	13. Southern Railway, Park Town, Chennai-600 003.
14. दक्षिण पश्चिम रेलवे हुबली-580020	14. South Western Railway, Hubli- 580020
15. पश्चिम मध्य रेलवे, जबलपुर-482 001	15. West Central Railway, Jabalpur-482 001.
16. पश्चिम रेलवे, चर्चगेट, मुम्बई- 400 020	16. Western Railway, Churchgate, Mumbai-400 020
17. चित्तरंजन रेल इंजन कारखाना, चित्तरंजन- 713 331	17. Chittaranjan Locomotive Works, Chittaranjan-713 331
18. डीजल रेल इंजन कारखाना, वाराणसी-221004	18. Diesel Locomotive Works, Varanasi-221 004.

Sub: Minutes of Meeting for 'Expediting the supply of Traction Motor/Motor suspension Unit/Axle Box /Auxiliary Machine Bearing' held at RDSO on 16.11.2018

Ref: RDSO's letter no. EL/2.2.13 dated 01.11.2018

1. Minutes of Meeting for 'Expediting the supply of Traction Motor/Motor suspension Unit/Axle Box /Auxiliary Machine Bearing' was held at RDSO on 16.11.2018.
2. Minutes of Meeting had been uploaded on RDSO website and it may be downloaded using following path:-

www.rdsso.indianrailways.gov.in → Directorates → Electric Loco → Reliability Meetings
→ TM/MSU/Bearings → Minutes of Meeting of 'Expediting the supply of Traction
Motor/Motor suspension Unit/Axle Box /Auxiliary Machine Bearing' held at
RDSO/LKO on 16.11.2018.


28.11.18
(P.K.Saraswat)

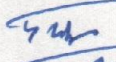
for Director General/ Electrical

Copy to:

1. **Secretary (Traction), Railway Board, Rail Bhawan, New Delhi-110 001 :-**
(Kind Attn.Shri A.K. Goswami, DEE/RS) - for kind information please.

2. M/s Schaeffler India Ltd., Maneja Vadordara-390013
3. M/s SKF India Ltd, 611-617,6th Floor, Bestech Chambers, B Block,
Sushand Lok Phase-I,Gurgaon-122002 (Haryana)
4. M/s Timken India Limited, 2nd floor, Ramnath building,
18 Community Centre, Yusuf Sarai, New Delhi-11001
5. M/s National Engineering Industries Ltd., Khatipura Road, Jaipur-302006

} For information and
necessary action
please.


28.11.18
(P.K.Saraswat)

for Director General/ Electrical

Minutes of Meeting for 'Expediting the supply of Traction Motor/Motor Suspension Unit/Axle Box /Auxiliary Machine Bearing' held at RDSO on 16.11.2018

Present:

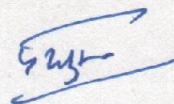
RDSO	Designation	M/s NEI	Designation
Shri O. P. Kesari	PEDSE	Shri Chetan Sharma	Mgr/Sales
Shri Sudhir Ranjan	EDSE	Shri Shubham Mudra	Asst. Mgr/Sales
Smt. Pratibha Gupta	JDSE/C&S	M/s SKF	
Shri Rajesh Kumar	ADE/TM	Shri Mukesh Arora	Mgr/Sales
CLW		Shri Sunder Negi	Asst. Mgr/Sales
Shri Ravi Yadav	AE/TMM	M/s Timken	
		Shri Shailendra Prasad	Manager

During the performance review meeting held at ELS/TKD on 30.10.2018, Zonal Railways reported supply issues of bearings. Non availability of bearings may hamper production of locomotives as well as may effect reliability due to non-replacement of bearings during prescribed maintenance period.

RDSO vide letter no. EL/2.2.13 dated 01.11.2018 had invited bearing manufacturers and representatives from CLW and Zonal Railways to discuss the supply issues of bearings.

Meeting was held on 16.11.2018 at RDSO, following points were discussed during the meeting.

1. Firms were informed about the locomotive production plan to plan for the bearing production accordingly. As per Railway Board letter No.2014/M(PU)/1/33 dated 21.10.17 ,12.2.2018 and No. 2014/M(PU)/1/33 Pt. dated 09.03.2018, production target of electric locomotives including quantity of DLW, DMW & DKAE for 2018-19, 2019-20 & 2020-21 are tabulated below:



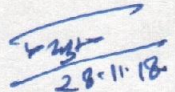
Year	PU's	WAG9	WAP7	WAP5	Total
2018-19	CLW	200	70	30	300
	Dankuni	40	-	-	40
	DLW	-	173	-	173
	DMW	-	60	-	60
Grand Total		240	303	30	573
2019-20	CLW	260	30	50	340
	Dankuni	50	-	-	50
	DLW	65	210	-	275
	DMW	-	60	-	60
Grand Total		375	300	50	725
2020-21	CLW	260	30	50	340
	Dankuni	50	-	-	50
	DLW	50	225	-	275
	DMW	-	60	-	60
Grand Total		360	315	50	725

2. Projected quantity of traction motor bearings to be procured by production units for 2018-19, 2019-20 and 2020-21 will be around 3258, 4050 and 4050 TM sets of 6FRA6068 and 120, 200 and 200 TM sets of 6FXA7059 respectively. Additionally, about 1700 TM sets of bearings of traction motor type 6FRA6068 & 120 TM sets of bearings of traction motor type 6FXA7059 will be required per annum on replacement account. Annual replacement requirement for MSU bearings will be about 800 sets for WAG9/WAP7 locomotives.
3. Projected quantity of axle box bearings to be procured by production units for 2018-19, 2019-20 and 2020-21 will be around 543, 675 and 675 loco sets bearing of CRU 150 used in WAG9/WAP7 locos and 30, 50 and 50 loco sets bearing of TBU 150 used in WAP5 locos.
4. Projected quantities of auxiliary machines bearings for 3-ph locos to be procured by production units for 2018-19, 2019-20 and 2020-21 are shown below:

3 phase Electric Locomotives			
Bearing Type	2018-19	2019-20	2020-21
6312	6876	8700	8700
6209	2292	2900	2900
6206	2292	2900	2900
6208	2292	2900	2900
6205	2292	2900	2900
6306	2292	2900	2900
4306A	1146	1450	1450

3306A	1146	1450	1450
-------	------	------	------

5. Further firms were also informed about the replacement schedule of various types of bearings. Firms were advised to plan for bearings production keeping in mind all the requirement i.e. Production unit requirement, scheduled and unscheduled maintenance requirement.
6. Electrified routes are increasing and to meet the traffic requirement, production of locos is also increasing. Bearing manufactures are requested to reduce their lead time from existing 12-18 months to not more than 3 months to meet the production & maintenance requirement of locos on IR. Firms are requested to plan well in advance so that any work should not get hampers due to non availability of bearings.
7. Pending POs of all kind of bearings received from Railways were discussed with the firms. Supply targets given by the firms for various POs is attached as **Annexure**
8. AEE/TMM/CLW discussed about the pending POs of CLW.
9. From the Purchase Order details, it is observed that delivery period was as high as 18 months. Firms and Railways both were advised to keep the delivery period as less as possible.
10. M/s NEI has informed that due to payment issues they are supplying bearing to ECR against advance payment for which proforma invoice to be obtained from ECR. Due to delay in getting proforma invoice, supply of bearings to ECR is getting delayed. All the firms have been requested to supply the bearings without proforma invoice to all Zonal Railways.
11. For timely execution of the supply against option clause by the suppliers, Zonal Railways are requested to operate option clause early considering the lead time provision given by bearing manufacturers.
12. M/s SKF had raised issue of delay in issuing Modification Advice(MA) by the Railways which affect supply. Railways are requested to avoid delay in issuing Modification Advices.
13. M/s Schaeffler (FAG) had not attended the meeting.


 (P.K. Saraswat)
 for Director General/ Electrical

M/s SKF's PENDING POS STATUS as on 16.11.2018

MSU Bearings

MSU Bearings							
Rly	PO No.	PO Date	PO Qty.	DP as per PO	Motor Type	Bearing type	Target Given by Firm
SCR	85171396190244	17-01-18	14	17-11-18	6FRA6068	NU1964 & NH1044	March 2019, we are trying to preponment of supplies
SCR	85171396190254	18-01-18	5	18-09-18	6FRA6068	NU1964 & NH1044	
SCR	85175002129012	17.01.18	24	17.11.18	6FRA6068	NU1964 & NH1044	
CLW	83/18//0365/11129	12.12.17	888	30.09.18	6FRA6068	NU1964 & NH1044	
550 nos supplied and balance 338 Shall supply by December							

TM bearing

Rly	PO No.	PO Date	PO Qty.	DP as per PO	Motor Type	Bearing type	Target Given by Firm
SCR	29181028195291	06.09.18	16	06.03.19	6FRA6068	NU2236&NJ320	option Clause qty and MA received, Consignee needs material after March 2019
WCR	20184146102612	12.07.18	20	12.01.19	6FRA6068	NU2236&NJ320	6 Set supplied, balance 14 sets shall supply by January 2019
ER	5171189101570	07.02.18	71	07.12.18	6FRA6068	NU2236&NJ320	34 Nos supplied, 37 nos shall supply by December 2018 Second week
ER	5171097101462	31.01.18	170	30.11.18	TAO	NU328	30 Nos shall supply 25.11.2018, 88 Nos shall supply on 10.12.2018 and balance 82 nos shall supply by Feb 2019, but we shall try to prepone
NR	19180609105106	12.10.18	224	30.06.19	6FRA6068	NU2236&NJ320	101 nos shall supply by January Second week abd 101 no shall supply by June 2019
NR	19170610103069	24.04.18	38	24.12.18	6FXA7059	NU224 & NJ219	Bearings are in stock will supply by Nov. 2018 end
CLW	83/18/51/11143	12.09.17	1330	31.12.18	6FRA6068	NU2236&NJ320	656 Nos supplied, 367 nos shall supplied by December 2018, Option clause qty 307 Nos shall supply by May 2019,

Axle Box Bearing

Rly	PO No.	PO Date	PO Qty.	DP as per PO	Bearing type	Target Given by Firm
NR	19180603104719	30.08.18	86	30.12.18	TBU150	MA Pending from NR, bearing will supply immediately after receiving of MA


 MANJESHA AROJA
 MANAGER - SALES
 16/11/2018

MSU Bearings								
Rly	PO No.	PO Date	PO Qty.	DP as per PO	Motor Type	Bearing type	Name of the firm	Target Given by Firm
SCR	85181441194503	12.07.18	11	30.04.19	Hitachi	M349547/5 10	TIMKEN	will despatch within DP
SER	85171839101366	11.05.2018	72	25-12-18	Hitachi	Hitachi MSU	TIMKEN	Requested for PO Cancellation

511666596
Sittler, Mary S.
1811/11/91
Presd
J. L.

M/s NEI PENDING PO's Status as on 16/11/2018

Sr No.	Rly	PO No.	PO Date	PO Qty.	DP as per PO	Bearing type	Bearing No.	Target by Firm	Remarks by Firm
1	ECR	3.16.3008.1.12450	10.12.17	154	12/10/2017	Aux M/c	6304	7/4/2018	Supplied vide Challan 24035662 dated 04.07.2018
2	ECR	3.16.3023.1.12449	12/6/2017	51	12/12/2017	Aux M/c	2204	9/5/2018	Supplied vide Challan 24036284 dated 05.09.2018
3	ECR	3.17.1237.1.13852	12/28/2017	130	4/28/2018	Aux M/c	6208	12/31/2018	Will be supplied within Dec'18
4	ECR	3.17.3682.1.13488	11/13/2017	637	3/13/2018	Aux M/c	6208	12/31/2018	Will be supplied within Dec'18
5	ECR	3.16.2779.1.12994	09.04.17	474	4/5/2018	Aux M/c	3306	12/31/2018	Will be supplied after DP amendment.
6	ECR	3.16.2536.1.10319	02.07.18	515	7/7/2018	Aux M/c	6205	12/31/2018	Will be supplied within Dec'18
7	SCR	29.18.1044.1.91291	17.04.18	432	31.10.18	Aux M/c	6208	12/31/2018	Will be supplied within Dec'18
8	SCR	29.18.1033.1.91432	24.04.18	519	31.10.18	Aux M/c	6205	10/4/2018	Supplied vide Challan 24036607 dated 04.10.2018
9	WCR	20.18.4165.1.03261	20.09.18	400	20.03.18	Aux M/c	6205	11/13/2018	Supplied vide Challan 24036952 dated 13.11.2018
10	WCR	20.17.4167.1.01435	08.02.18	226	08.08.18	Aux M/c	6206	12/31/2018	Will be supplied within Dec'18
11	WCR	80.17.1521.1.02451	26.06.18	200	26.12.18	Aux M/c	6302	12/31/2018	Will be supplied within DP
12	WCR	80.17.1521.1.02451	26.06.18	200	26.12.18	Aux M/c	2204	12/31/2018	Will be supplied within DP
13	NCR	80.17.1164.1.01372	16.08.18	59	15.10.18	Aux M/c	1305	10/1/2018	Supplied vide Challan 24036678 dated 15.10.2018
14	ER	5.16.1261.1.04375	14.09.16	228	15.09.18	Aux M/c	2204	4/1/2018	Supplied vide Challan 24034765 dated 04.04.2018
15	ER	5.17.1268.1.04644	30.10.17	94	30.04.18	Aux M/c	3306	12/31/2018	Will be supplied within Dec'18
16	NR	19.17.0612.1.04906	23.11.17	150	23.03.18	Aux M/c	3306	12/31/2018	Will be supplied within Dec'18
17	NR	19.18.0615.1.02016	22.02.18	990	22.05.18	Aux M/c	6206	12/31/2018	Will be supplied within Dec'18
18	NR	19.18.6612.1.04161	06.07.18	400	06.01.19	Aux M/c	3306	12/31/2018	Will be supplied within Dec'18
19	NR	19.18.4410.1.05182	18.10.18	675	16.04.19	Aux M/c	6305	1/31/2019	Will be supplied in Jan'19
20	SCR	85.16.1420.1.91761	4/24/2017	13	7/10/2018	Hitachi	NH324	11/30/2018	Will be supplied in Nov'18 subject to receipt of DP extension MIA from SC Railway
21	SCR	85.18.8150.0.19954	10/25/2018	6	4/1/2019	Hitachi	NU330	PO not received	PO to be verified since tender with this PO no is not showing on IREPS
22	CR	43.16.5290.31.50409	1-Mar-17	30	6 Month	Hitachi	NH324	PO Cancelled	PO Cancelled vide letter dated 17/07/2017
23	SER	85.18.1918.1.02447	9/11/2018	97	6/4/2019	Hitachi	NH324	4/30/2019	To be supply after 01.04.2019 as per PO delivery schedule
24	WR	14.17.0796.1.03577	12.07.18	9	12.01.19	Hitachi	NH324	11/30/2018	Will be supplied in Nov'18
25	ER	5.17.1093.1.05121	19.12.17	118	30.11.18	Hitachi	NH324	11/30/2018	59 Nos supplied in May'18 and balance 59 Nos to be supply after 01.10.2018 but before 30.11.2018 as per PO delivery schedule

16/11/2018

M/s NEI PENDING PO's Status as on 16/11/2018

26	ER	5.18.1186.1.04519	26.09.18	159	30.11.19	Hitachi	NH324	4/30/2019	As per PO delivery schedule 50% qty after 01.04.19 to 30.05.19 and balance 50% after 01.10.19 to 30.11.19
27	ER	5.17.1095.1.05182	21.12.17	113	30.11.18	Hitachi	NU330	11/30/2018	57 Nos supplied in May '18 and balance 56 Nos after 01.10.2018 but before 30.11.2018 as per PO delivery schedule
28	ER	10.18.1021.1.04204	29.08.18	130	05.04.19	6FRA6068	Hitachi MSU	1/31/19 (1st lot)	As per PO delivery schedule 65 sets within 05/04/2019 and balance within 31/08/2019 (Part qty MA required)
29	NR	19.17.1435.1.03473	16.05.18	12	16.11.18	Hitachi	Hitachi MSU	1/31/2019	Will be supplied in Jan '19
30	NR	19.18.1435.1.05382	01.11.18	15	30.11.18	Hitachi	Hitachi MSU	1/31/2019	Need MA for DP re-fixation since DP too short
31	CLW	83.19.0051.1.12153	30.10.2018	60	30.10.2019	6FRA6068	NU2236 & NH-320	As per DP	As per DP after prototype inspection and approval
32	CLW	37.18.3748.1.25214	13.09.2018	4658	30.06.2019	Axle Box	CRU-150	As per DP	Will be supplied as per DP
33	CLW	83.19.0365.1.12137	12.10.2018	210	31.12.2019	TM Bearing	MSU	As per DP	Will be supplied as per DP
34	NCR	20.18.2322.1.01019	08.06.18	19	26.06.19	WUZ150	RB5020	1/1/2019	DP is 26-Jan-2019 and material will be supplied within DP

[Signature]
16/11/2018

for NEI Japen.
Chetan Sharma
(Manager - Sales)