भारत सरकार—रेल मंत्रालय अनुसंधान अभिकल्प और मानक संगठन लखनऊ— 226011

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



Date: 29.01.2020.

EL/2.2.1/High Reach

To,

M/s. Contransys Private Limited,

16, Hare Street,

Kolkata-700 001.

Sub: Minutes of Meeting on Performance of High Reach Pantograph Type IR-05HR on 24.01.2020 at RDSO.

In reference to above subject, Minutes of Meeting are being issued for your necessary action.

(Aseem Kumar) for Director General/Elect.

Encl: As above:

Copy to:

- 1. Secretary (Electrical), Railway Board, Rail Bhavan, New Delhi-110 001. (Kind Attn: Sh. Kishore Vaibhav, DEE/RS/RB) .--- For kind information
- 2. Principal Chief Electrical Engineer, Northern Railway, Baroda House, New Delhi-110 001.--- For kind information and necessary action please
- 3. Principal Chief Electrical Engineer, Western Railway, Churchgate, Mumbai-400 020. - For kind information and necessary action please.
- 4. Principal Chief Electrical Engineer, North Central Railway, Subedarganj, ALLahabad-211 001--- For kind information and necessary action please
- 5. Principal Chief Electrical Engineer Chittaranjan Locomotives Works, Chittaranjan-713331 --- For kind information and necessary action please

(Aseem Kumar)

for Director General/Elect.

Encl: As above:

Minutes of Meeting on Action plan for fitment & Current collection test of High Reach Pantograph Type IR-05HR on 24.01.2020 at RDSO

Member Present:

SN	Name (S/Shri)	Designation
RD	SO	
1	Sanjiv Swarup	PEDSE
2	Aseem Kumar	DSE/Pn.
3	V. K. Yadav	SSE/D/Elect.
Ra	ilways	
1.	Harikesh Meena	SrDEE/TRS/BRC
2.	M. K. Gupta	ADEE/TRS/GZB
3.	S. Swain	SSE/TRS/BRC

SN	Name (S/Shri)	Designation
M/s	. Contransys	
1	Rajesh Talwar	Manager Production

A meeting was held at RDSO for reviewing the performance of High Reach Pantograph of M/s. Contransys type IR-05HR for electric locomotives. Following were discussed during the meeting:

- 1. WR will conduct measurements on the High Reach Pantograph of M/s. Contransys make pantograph in high speed section of High Rise as well as conventional OHE to observe the behavior of High Reach Pantograph as they have done for other make pantographs. Checking should be jointly done along with TRD staff having OLIVER-G measurement facility in WAP-5//WAP-7 loco. Measurements in Gatiman express may also be carried out providing High Reach Pantograph in 160kmph fit WAP-5 locomotive. These measurements should be done in both knee leading and knee trailing positions of the pantograph.
- 2. Two High Reach Pantographs supplied by M/s. Contransys have been taken by ELS/BRC from CLW. Current collection in High Rise OHE is to be carried out in high rise OHE section of WR after fitment of both High Reach Pantograph in one WAP-5/WAP-7 loco. M/s. Contransys is advised to associate during fitment of pantograph and during current collection from 29.01.2020 onwards as discussed in the meeting.
- 3. M/s. Contransys was advised to provide its Maintenance Manual of the item to ELS/BRC.

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- 4. Instrumentation as discussed in the meeting on 14.01.2020 at Railway Board to measure contact force, contact wire height, contact point displacement in vertical direction during run and current collection as per BS EN 50317: 2012, is to be arranged by firm.
- 5. Wind tunnel test up to 3.8m height of the pantograph should be planned to be carried out by the firm and if the facilities are not available, then simulation of the same should be expedited and report regarding the same should be submitted. It was informed that many other agencies are doing simulation by making their smaller models of Missiles, Aircraft, wagons etc at IIT Kanpur Wind tunnel facility, which may be made use of by the firm.
- 6. Firm apprised that they will submit their design of product as per Rev '3' of RDSO's specification at the end of February 2020.

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