भारत सरकार Government Of India
रेल मंत्रालय Ministry Of Railways
(रेलवे बोर्ड) (Railway Board)

Minutes of the Meeting of
"Technology Mission For Indian Railways (TMIR)"
Held in Railway Board on Tuesday 2nd June, 2015

1. In terms of letter no. 2014/CE-I/Innov/4, dated 29.5.15, meeting of 'Technology Mission For Indian Railways (TMIR)', as approved by Hon'ble Minister for Railways was held on 02.06.2015 in Railway Board's office. The participants were as under :

(1)	Prof. N.S. Vyas	IIT/Kanpur & Ex. V.C. Raj.Tech.Univ.	*Chairman/TMIR*
(2)	Shri Alok Kumar	*EDCE(G), Railway Board*	*Co-Chairman/TMIR*
(3)	Shri Vipul Kumar	*ED/Research, RDSO*	
(4)	Dr. Anirudh Gautam	*GM/RITES/RS/Lucknow*	

2. EDCE(G)/R.Bd. and Co-Chairman/TMIR extended warm welcome to all the participants. It was informed that the earlier 'Technology Mission for Railway Safety' (TMRS), sanctioned in 2004-05 for Indian Railways was successful in developing new technologies for Railways. The present 'TMIR' has been sanctioned at a cost of Rs. 300 crore in Railway Budget 2015-2016.

3. The following points were deliberated which were also in continuation to the minutes of earlier meeting, held on 10th March, 2015 and as circulated vide no. 2014/CE-I/Innov/4, dated 10.03.15 :

(1) In terms of Railway Board's Order vide no. ERB-I/2015/23/23, dated 28.04.2015, 'TMIR' has been approved to function through the 'Mission Implementation and Coordination Committee' (MICC), comprising of Prof. N.S. Vyas, Vice Chancellor, Rajasthan Tech. University and formerly Head, Mech./IITK, as Mission Chairman; Shri Alok Kumar, EDCE(G), Railway Board as Co-Chairman of 'TMIR' alongwith nominees of Ministry of Railways, RDSO, Railway Research Centres, Ministry of HRD, Ministry of Science & Technology and Industries as Members of MICC.

(2) It was considered opinion during deliberation that MICC to have Members as under :

(i)	Prof. N.S. Vyas, IIT/Kanpur & former VC/RTU	Chairman
(ii)	Shri Alok Kumar, EDCE(G), Railway Board	Co-Chairman
(iii)	Executive Director/Research, RDSO	Member
(iv)	Executive Director/Finance, RDSO	Member
(v)	Executive Director, Efficiency & Research, Railway Board	Member
(vi)	Dr. Anirudh Gautam, GM/RITES (RS)	Member
(vii)	Dr. Neeraj Sharma, Scientist 'G', DST	Member
(viii)	Representative of the Ministry of HRD	Member
(ix)	Industry representative – Shri O.P. Tantia, BESCO	Member
(x)	Industry representative – Dr. Sunil D. Sherlekar, renowned expert in Embedded Systems	Member

(3) It was also deliberated that same industry representatives, who were nominated in IR's earlier Mission 'TMRS', may be included in the 'MICC'. Therefore, names of Shri O.P. Tantia and Dr. Sunil D. Sherlekar have been mentioned as above.

(4) Dr. Anirudh Gautam, GM(RS)/RITES has already formulated six research projects related to engine development which are in advanced stages of starting and these are close coordination with Department of Science & Technology alongwith his experience as

ED/ED/RDSO. Therefore, his nomination as Member of MICC was also considered appropriate by the Chairman/TMIR.

(5) As mentioned in Railway Board's orders, 'TMIR' will also monitor progress of research projects of the existing Railway Research Centre (RRC), Kharagpur and in respect of further 4 upcoming Railway Research Centres, sanctioned in Budget 2015-16. Thus, Railways' investment in applied research activities will be fruitfully converted to technology development for actual use in railway working.

(6) The issues regarding project formulation on various requirements of IR; project teams; association of academia, research organisations & industries; sanctioning of projects by MICC; fund allotment & its management; technology development & adoption/ implementation on IR; IPR matters etc. need to be addressed first, so that go ahead on 'TMIR' may be systematic and smooth.

(7) It was viewed that 'Mission Management Manual' (MMM) should be drafted in lines with already approved similar document for 'TMRS' with further improvements, based on experience gained in successful TMRS. Draft MMM for 'TMIR' has been planned to be prepared by end of July 2015 by RDSO in consultation with MHRD, DST etc. It will, then, be circulated to all the Members of MICC before getting it approved by the Ministry of Railways.

(8) Similarly, as per theme of budget speech of Hon'ble MR for consortium of Ministry of Railways, Ministry of Human Resource Development, Ministry of Science & Technology and Industries on an investment sharing model for identified railway projects for applied research and use on Indian Railways through 'TMIR'; draft MoU between MoR, MoHRD and DST will also be prepared by RDSO under guidance of Chairman & Co-Chairman, 'TMIR'. This MoU is proposed to be signed in August 2015.

(9) 'TMIR' is a sanctioned new work of 2015-16 under Plan Head - 18. ED/Research/RDSO was advised to get its estimate prepared, vetted and sanctioned in RDSO, so that further action against this sanctioned project of 'TMIR' may be started and organised.

4. RDSO will organise next TMIR meeting at RDSO, so that interaction with DG and all the Directorates of RDSO may be possible for further project formulation and functioning.

5. Subsequently, meeting of MICC will be held at Delhi in July end for further needful action and going ahead in 'TMIR'.

(No. 2014/CE-I/Innov./4, New Delhi, Dated 02.06.2015)

(आलोक कुमार) 02/06/15
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- EDPG/MR and PS/MR for kind information of Hon'ble MR please.
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- General Managers of all Indian Railways, PUs etc. and Director Generals – RDSO, NAIR, RPF & RHS.
- Chairman and all the Members of MICC to 'TMIR' (Technology Mission For Indian Railways).