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

Minutes Of The Meeting Of
'Mission Implementation And Coordination Committee (MICC)'
To
"Technology Mission For Indian Railways (TMIR)"

Held at Railway Board, New Delhi on Thursday, 24th September 2015

1. In terms of Railway Board's letter no. 2015/CE-I/INNOV/3, dated 15.09.2015; meeting of the 'Mission Implementation & Coordination Committee (MICC)' to the "Technology Mission For Indian Railways (TMIR)" was held on 24.09.2015 at Railway Board's office, New Delhi.

2. Following were present :

A. Members of The 'MICC' To 'Technology Mission For Indian Railways' (TMIR) :

1.	Prof. N.S. Vyas, *Chairman*	*vyas.nalinaksh@gmail.com*	*9956292801*
2.	Shri Alok Kumar, *Co-Chairman and EDCE(G)/RB*	*alokalokindia@rediffmail.com*	*9910487302*
3.	Shri Nikhil Pandey, *ED/E&R/RB*	*eder@rb.railnet.gov.in*	*9910487329*
4.	Dr. Kalpana Dube, *ED/Finance/RDSO*	*edfinrdso@gmail.com*	*9794863002*
5.	Shri Vinay K. Agarwal, *ED/Research/RDSO*	*edresrdso@gmail.com*	*9794863022*
6.	Dr. Anirudh Gautam, *GM/RITES*	*gautam.anirudh@gmail.com*	*9794861064*
7.	Dr. Neeraj Sharma, *Scientist(G) & Adv./MoST*	*neerajs@nic.in*	*9810753972*
8.	Shri O.P. Tantia, *Industry Representative*	*tantiaom@gmail.com*	*9831008640*
9.	Dr. Sunil Sherlekar, *Industry Representative*	*sunil.d.sherlekar@gmail.com*	*9663090004*

B. Other Participants :

10.	Shri Anil Kumar, *Dir.CE(G)/RB*	*dcegrb@gmail.com*	*9717647156*
11.	Shri Amit Sharan, *Dir./E&R(ME)/RB*	*dermeenr@gmail.com*	*9717642759*

3. Shri Alok Kumar, Co-Chairman/TMIR extended warm welcome to the Mission Chairman, Members of the 'MICC' and all the participants of the meeting.

4. The draft document of 'Mission Management Manual' (MMM) was deliberated in detail by all the members of 'MICC' to 'TMIR' and was unanimously concluded. The modified document will be circulated again to all the members of MICC for their valuable inputs, so that it may be processed further for approval of the Ministry.

5. Meetings will be held with Ministries of HRD and Science & Technology for the modality of sanction and release of funds to the consortium of 'Technology Mission for Indian Railways'. It

is important for the funding agencies to look upon their contribution as an investment and not as an expense.

6. Following projects were identified for submitting detailed proposal to MICC, within one month :

SL	Project Title	RDSO Dte.	Coordinating MICC Member
1.	Vision Enhancement for assistance of Loco Pilot	*EL, MP & Signal*	Dr. Sunil Sherlekar
2.	Development of suitable technology to Detect Rail Fracture and its Communication to the Driver of an approaching train and Central Control	*Track*	ED/Research RDSO
3.	To achieve inter-operability between different makes of Distributed Power Control Systems (DPCS) for running of Heavy Haul Trains	*MP & EL*	Dr. Sunil Sherlekar
4.	Health Monitoring of Rolling Stock for Predictive Maintenance	*Research*	Prof. N.S. Vyas Chairman/TMIR
5.	Performance Enhancement of Formation for Ballasted Rail Tracks, using Geo-synthetics Reinforcement - Development of design methodology	*GE*	Shri Alok Kumar Co-Chairman / TMIR
6.	Design of advanced performance next generation Track Friendly Freight Bogies and to augment in-house capability of RDSO for optimization and numerical analysis of freight bogie designs	*Wagon*	Prof. N.S. Vyas Chairman/TMIR
7.	Developing capabilities for high speed rolling stock Testing and Training	*Testing*	Shri O.P. Tantia

7. One of the Members of MICC will co-ordinate for preparing detailed proposal in specific areas, if needed. Concerning Directorates of RDSO may take necessary action accordingly.

8. Only those projects as per priority of Indian Railways will preferably be taken up in TMIR which involve solving complex technological issues and have got major impact on overall Railway Operations.

9. It was considered opinion of the MICC that projects, which have already been sanctioned separately in Pink Book or by DG/RDSO and are in-progress by RDSO will not be considered for taking up under 'TMIR'. These projects may be taken forward by RDSO for implementation, as already planned. However, TMIR may take up some similar priority projects with the purpose of development of cost effective alternative with IPR, jointly owned by IR / Academic / Research Institutions / Industries.

10. As already deliberated earlier, RDSO were further advised to formulate detailed project proposals with scope, deliverables, cost, final product, associated academic/research institutions, having domain knowledge and the possible participating industries for each individual project.

The project team should then present these detailed project proposals to the MICC in its next meetings. The MICC, with due co-option of competent experts, if required, would carry out a

detailed technical scrutiny of each project and accord approval for going ahead to the approved projects and fund would accordingly be released by MICC from TMIR.

11. It was requested that follow up action should be taken by everybody on all the items of the minutes of all the earlier meetings; so that fruitful progress on TMIR may be visible.

12. Next meeting of MICC will be held in the third week of October, 2015.

(No. 2015/CE-I/Innov./3/TMIR, New Delhi, Dated 28.09.2015)

28/09/15

(आलोक कुमार)
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Distribution :

- Director General, RDSO, Lucknow
- Dr. V.K. Saraswat, Chairman Designate of the Advisory Group of Experts for 'Make In India' on IR
- Chairman and all the Members of MICC to 'TMIR' (Technology Mission For Indian Railways)

Copy to :

- EDPG/MR and PS/MR for kind information of Hon'ble MR please.
- Adv.PG/MSR, PS/MSR and ED/Innovation/MSR for kind information of Hon'ble MSR please.
- PSO/Sr.PPS to CRB, ME, FC, MM, ML, MT, MS and Secretary for kind information of CRB, ME, FC, MM, ML, MT, MS and Secretary please.
- The Secretary, Ministry of Science & Technology and Secretary, Ministry of HRD, New Delhi for information please