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 Wednesday, 29th June, 2016

1. In terms of Railway Board's letter no. 2016/CE-I/INNOV/2/TMIR, dated 14.06.16; meeting of the 'Mission Implementation & Coordination Committee (MICC)' to the "Technology Mission for Indian Railways (TMIR)" was held on 29.06.2016 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 C.E./NR*	*alokalokindia@rediffmail.com*	*9910487302*
(3)	Shri Shailendra N. Jaiswal, *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. Neeraj Sharma, *Scientist(G) & Adviser/MoST*	*neerajs@nic.in*	*9810753972*
(7)	Shri Om Prakash Tantia, *Industry Member*	*tantiaom@gmail.com*	*9831008640*

B.	**Other Participants :**		
(8)	Shri Aditya K. Mittal, *Member Engineering/RB*	*me@rb.railnet.gov.in*	*9560527000*
(9)	Shri Brijesh Kumar, *ED/GE/RDSO*	*sredgerdso@gmail.com*	*9794863003*
(10)	Dr. S. Mittal, *Prof., IIT/Roorkee*	*satyendramittal@gmail.com*	*9412074237*
(11)	Shri Rajesh Malik, *Dir./E&R(ME)/RB*	*dermeenr@gmail.com*	*9910487438*
(12)	Shri Rishi Gangwar, *Dir./Res.(Civil)/RDSO*	*drcrdso@gmail.com*	*9794863280*
(13)	Shri Amit Srivastava, *Dir./Res.(Mech.)/RDSO*	*rdso.drrm@gmail.com*	*9794863072*

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. Mission Management Manual (MMM) to the technology Mission for Indian Railways (TMIR) is currently under approval with Railway Board. All members were asked to make personal efforts at their level for expeditious approval of MMM, which was duly signed by all the MICC Members on 12th January '16.

5. It was decided to invite one Board Member in every meeting of MICC for apprising them of the work being done by TMIR and to get their valuable advice & suggestions to take up the projects which are currently on priority for Railways.

6. Member Engineering attended today's meeting. He mentioned TMIR as a noble concept which would be beneficial to Indian Railways. In the potential areas of R&D, already identified by RDSO, many new projects/concepts have been listed, on which work should be taken up by the concerned Directorates of RDSO in a focussed manner.

7. ME further suggested following project areas for taking up under TMIR :

(i) Measurement of stresses in rail for enhancing surveillance of track and to minimize the deployment of manpower in patrolling of Track in extreme weather conditions and also on round the clock basis.

(ii) Improvement in life of Track fittings and reducing life cycle cost of components, e.g. Rubber Pads etc. Criteria may be GMT or no. of years, aging or self life of the components.

(iii) Improved methodology for working under traffic block, especially for avoiding subsidence of track during construction of LHS/RUBs.

(iv) Improvement in the formation with locally available materials and means - optimum solution to be arrived at.

8. It was decided that sanction letters for the two Projects already approved by MICC during last meeting should be issued immediately, to avoid further delay. It was mentioned that some formalities will be required to be completed before start of the project like signing of POTC agreement etc. and in the meanwhile MMM is likely to be approved by Board.

9. It was also decided that these projects will be fully funded out of share of Railways in TMIR and likewise some other projects can be fully funded by MoST/MHRD subsequently.

10. Dr. Neeraj Sharma (DST, and Member MICC) mentioned that DST can likewise consider providing full funding to projects approved by MICC. Prof. Vyas mentioned that the Initiation Phase for two projects – (i) "Design of Advanced Performance Next Generation .....Freight bogie designs" and (ii) "Development of capability for testing of high speed rolling stock", has been approved by the MICC and the funds of Rs. 15 lakh, each are being released by RDSO and the full projects, once fully formulated beyond the Initiation Phase, can be funded entirely by DST. All members agreed to this proposition.

11. Yearly budget, as mentioned in the Project proposal, is to be released in advance to the consortium institution(s) to which PI(s) belong, as per the provisions laid down in the MMM. However, PIs (RDSO & Institute) will make proper presentation regarding progress of the project to MICC every quarter.

12. It was mentioned that Annexure 1(b) on IPR, as mentioned in Para XII) of MMM needs to be approved and proposed. Accordingly, it will be discussed in the next meeting of TMIR and Draft of the same shall be circulated in advance by ED/Research/RDSO.

13. Discussion on Projects :

(i) Design Methodology & Software Development for Railway Formation Design

This project is approved by MICC at the revised cost of Rs.163.96 lacs. Sanction letter for this project would be issued by RDSO. MICC also approved release of Rs. 81.33 lacs to IIT/Roorkee and authorized expenditure of Rs. 21.71 lacs by RDSO towards execution of this project in the first year. Institute may submit their demand as per provisions of MMM.

GE Directorate of RDSO would to process for payment to IIT/Roorkee, after receipt of formal demand and signing of the Agreement and MOU between POTC for this project.

(ii) Feasibility study for Development of "New Apparatus for Year Around Navigation" (NAYAN)

This project is approved by MICC at the revised cost of Rs. 4.87 crore. Sanction letter for this project would be issued by RDSO. This project has one-year duration. MICC approved the release of fund as per project budget requirement to IITs & SAMEER and authorized expenditure by RDSO, as per project proposal, towards execution of this project. Institutes may submit their demand as per provisions of MMM. Research Directorate of RDSO would process for payment to IITs/SAMEER, after receipt of formal demand and signing of the Agreement and MOU between POTC for this project.

14. As decided earlier, a reference to MHRD to be made for waiving off Institution Overheads for the projects being undertaken through TMIR.

Also, references to MoST & MHRD are to be made for knowing their commitment of funds for the current year, out of their share of 25% each, for the sanctioned TMIR Project of Indian Railways.

RDSO would also project the required budget allotment for 2016-17 through August Review against the sanctioned project of TMIR under Plan Head 18.

(No. 2016/CE-I/Innov./2/TMIR, New Delhi, Dated 04.07.2016)

04/07/16

(आलोक कुमार)
Co-Chairman – 'Technology Mission For Indian Railways'
And **Chief Engineer / HQ, Northern Railway**
[Phone: 030-32370 (Rly.); 011-23387869, 011-23047577 (MTNL); 09910487302 (CUG Mobile)]
e-mail address: alokalokindia@rediffmail.com; cctmir@gmail.com and cehq@nr.railnet.gov.in

Distribution :

- Director General, RDSO, Lucknow
- Chairman and all the Members of MICC to 'TMIR' (Technology Mission For Indian Railways)
- All the participants of the meeting.

Copy to :

- EDPG/MR and PS/MR for kind information of Hon'ble MR please.
- ED/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