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

Minutes Of The Second Meeting Of

"Railway Design Centre Monitoring Committee (RDCMC)"

Of The Railway Design Centre, Set Up At NID/Ahmedabad

Held on 3rd August, 2015 At Railway Board, New Delhi

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1. In terms of Railway Board's letter no. 2015/CE-I/Innov./5/RDC-NID, dated 28.07.15, second meeting of 'RDC Monitoring Committee (RDCMC)' for the Railway Design Centre, set up at National Institute of Design, Ahmedabad by Hon'ble MR was held on 03.08.15 in Railway Board's office. The following officers attended the meeting :

A. <u>RDC Monitoring Committee</u> :

(1)	Prof. Pradyumna Vyas	*Director, N.I.D.*	*Chairman*	*director@nid.edu*
(2)	Shri Alok Kumar	*EDCE(G), Railway Board*	*Co-Chairman*	*alokalokindia@rediffmail.com*
(3)	Shri Tanveer Ahmed	*EDF(X)-I, Railway Board*	*Member*	*tanveer27@hotmail.com*
(4)	Shri Nikhil Pandey	*ED/E&R, Railway Board*	*Member*	*eder@rb.railnet.gov.in*
(5)	Shri V.K. Agarwal	*ED/Research, RDSO*	*Member*	*edresrdso@gmail.com*
(6)	Dr. Jignesh Khakhar	*Faculty, N.I.D.*	*Member*	*khakharj@nid.edu*
(7)	Dr. Vikram Singh Parmar	*Faculty, NID & CEO/NDBI*	*Member*	*vikram_p@nid.edu*

B. <u>Other Officers</u> :

(8)	Shri Shailendra Singh	*EDME/Coaching, Railway Board*	*edmecoachingrb@gmail.com*
(9)	Shri Indrajit Singh	*ED/Carriage, RDSO*	*edcar.rdso@gmail.com*
(10)	Ms. Seema Sharma	*Director/I&P, Railway Board*	*dip@rb.railnet.gov.in*
(11)	Ms. Nijoo Dubey	*Faculty, N.I.D.*	*nijoo@nid.edu*
(12)	Shri Mohammed Naim Shaikh	*Faculty/NID & Studio Incharge/RDC*	*mohammed@nid.edu*

2. EDCE(G)/Railway Board extended warm welcome to all the participants. While most of the Members of 'RDCMC' were present, ED/PM/R.Bd. could not attend due to the Parliament Session.

3. Various possible fields for project formulation and the priorities of Hon'ble MR were mentioned in the minutes of meeting held on 7th May, 2015. These should quickly be acted upon for project formulation and further progressing by the concerned Directorates of RDSO and ED/Research may coordinate on the subject.

4. The following projects were presented to and deliberated by the 'RDCMC' –

(i) Improved Ladder Arrangements for Climbing Upper Berths :

Many options have already been explored and it will be presented by the project team of NID & ED/Carriage/RDSO to the appropriate level by 15th September and project will be completed by 30th September 2015.

Alternate arrangements, like folding type climbing may also be explored. Light weight high strength aluminium / composite materials, being developed by DMRL (Defence Metallurgical Research Laboratory) may be utilised.

(ii) New Colour Scheme for Mail / Express Trains in Higher Speed Segments :

NID has already planned many colour schemes on various themes and these were presented to RDCMC. ED/Carriage/RDSO was advised to interact with NID more closely and after showing the facilities available at RCF/Kapurthala on paint etc., two/three options may be finalized for presentation to Board and Hon'ble MR by 15th September by the project team of NID & RDSO. Project has been planned for completion by 30th September 2015.

(iii) Improvement To Designs For Interiors Of The Coaches – layout changes, better space utilization, colour schemes, toilets etc. :

EDME/Coaching, Railway Board mentioned that this is the priority item of Hon'ble MR. RDSO and NID were advised to formulate the project proposal w.r.t. various requirements for improvement in the coaches. It should be presented to RDCMC and to be progressed on priority.

(iv) Director/I&P mentioned priority of PMO and Hon'ble MR for undertaking a project on uniformity of signages, colour scheme and other passenger amenities across all the stations of Indian Railways under motto "One India - One Railway." This project needs to be formulated & presented to 'RDCMC'.

(v) Further project proposals –

(a) Full size window opening at doors of all coaches, so that approach to stopping stations could be visible from inside of coach without opening the door and without any inconvenience to travelling passengers. This item was mentioned by Hon'ble MoSR at the time of signing of MoU on 10th April.

(b) Reservation charts are normally displayed at one place near one of the doors of the coach at the starting station. These charts get torn/damaged after start of train, causing inconvenience to passengers at intermediate stations.

A project needs to be formulated for Electronic Reservation Charts near all the four doors of reserved coaches, which may be updated through internet on real time basis during the journey time, based on information available with PRS. It will result in saving of human resources, increase in operational efficiency, continually updateable (adding names of passengers of en-route stations), take care of problem of reservation chart being available only on one side of coach, chart torn/damaged after start from the originating station due to wind pressure/rains etc.

5. Although projects and their status were presented & discussed, the cost part was not available with the project teams. It should properly be worked out by the concerned teams of RDSO & NID, so that RDCMC may accord sanction to project cost/estimate as well and project may be completed in the definite time frame.

6. NID is having main campus at Ahmedabad and additional campus at Bangalore. ED/ Research, RDSO may advise DRMs - Ahmedabad & Bangalore and CWM/ Ahmedabad to facilitate interaction of NID faculty/students, so that existing infrastructure & facilities of Railways may easily be accessible to NID for study and going ahead on project proposals.

7. NID submitted that the changes being proposed in the station facilities may be displayed at one of the stations in Ahmedabad area and one in Bengaluru area. Suggestion was accepted by RDCMC and Railways may take necessary action in this regard.

8. Automotive Research Association of India (ARAI), Pune has a huge anthropometric database which can be used for designing coach interiors from the ergonomics and passenger satisfaction point of view.

9. Concept of sanctioning and progressing with projects through MoU for 'RDCMC' was again explained. The 'Railway Design Centre' at NID has been set up to finalize various concepts/ideas in different fields through close interaction & team effort by concerned Directorate of RDSO and the nominated faculty of NID for project-specific requirements.

10. 'Idea Bank' should be created on RDSO website, so that various thoughts, themes, concepts and ideas may be pooled and project proposals may be framed from time to time for the benefit of rail users. These may be grouped into various heads like safety, passenger amenities etc.

11. For each concept & project, ED/Research/RDSO will nominate one of the Directorates as Nodal Directorate and project team will comprise of Director of this Directorate of RDSO and faculty from NID/Ahmedabad. Both of them in close coordination and association of other concerned officials from Railway Board, Zonal Railways, Production Units & other centres of excellence, as the case may be, will prepare a project proposal in which concept, scope, deliverables, timeframe and detailed project cost will be prepared.

12. Each project team will present the project proposal to the 'RDCMC' during its next meeting and sanction of the Monitoring Committee will be accorded with specific sanction for fund at different stages, so that project is completed by the project team within the definite time-frame.

13. ED/Research, RDSO was advised that for project conceptualization and coordination with various Directorates, internal meetings in RDSO may also be organized and coordinated by him.

14. After prototyping, trials, finalisation, approval etc. of the concepts/projects; for further proliferation and adoption of the technology/product in various fields, separate works/projects will got be sanctioned by the concerned Directorate of Railway Board / Zonal Railways for implementation in the field.

15. As already mentioned in earlier minutes, next meeting of RDCMC will be held at NID, Ahmedabad in which apart from Members of the RDCMC, officers of other concerned Directorates of RDSO may also be invited to attend and see the facilities available with NID. Similarly, subsequent meeting may be held at RDSO when other concerned faculty of NID may also visit and be educated of the facilities in Labs and documents available at RDSO for using these in various project proposals.

16. Brief about RDC and projects being taken up by RDC need to be placed on the websites of RDSO and NID. Provision for giving feedback / suggestions on projects undertaken under RDC may be made for finding most optimal solution to each problem. NID and RDSO will do needful in this regard.

17. Office of 'Railway Design Centre' to be earmarked in NID, Ahmedabad and it should formally be opened / inaugurated at the earliest for its proper functioning.

18. A separate e-mail id "rdc@nid.edu" has already been created for interacting on all the issues related to Railway Design Centre. A web-page may also be created by NID for 'RDCMC' with its link on the websites of Indian Railways & NID.

(No. 2015/CE-I/Innov./5/RDC-NID, New Delhi, Dated 04.08.2015)

(आलोक कुमार) 04/8/15
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Distribution for information and necessary action :

1. The General Managers of all Indian Railways, PUs etc. and DG/RDSO, Lucknow
2. DG/NAIR and Directors of all the Centralised Training Institutes on Indian Railways
3. Director, National Institute of Design, Ahmedabad
4. All the Members of the 'RDC Monitoring Committee' of Railway Design Centre at NID, Ahmedabad.

Copy to :

(i) PS and ED/PG to MR for kind information of Hon'ble MR please
(ii) PS, Adv./PG and ED/Innovation to MSR for kind information of Hon'ble MSR please
(iii) PSO/Sr.PPS to CRB, ME, FC, MM, MT, ML, MS & Secretary, Railway Board for kind information of CRB, ME, FC, MM, MT, ML, MS & Secretary please
(iv) AM/CE, AM/Budget, AM/ME, AM/Electrical, AM/Traffic, AM/Comml, AM/Signal and AM/Tele in Railway Board
(v) All the Executive Directors of Railway Board and RDSO (through e-mail)
(vi) All the participants of the meeting