

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No.2017/Proj./KMRL/RS/29/3

New Delhi, dated 08.03.2017

Managing Director,
Kochi Metro Rail Ltd.,
8th Floor, Revenue Tower, Park Avenue,
Kochi-682 011 (Kerala)

Sub: Sanction for introduction of operation of Standard Gauge Metro Coaches manufactured by M/s. Alstom Ltd., with air suspension arrangement at secondary stage to M/s Alstom Limited's Drawing No. NHD0000002830 for Driving Motor (DM) and Trailer (T) Coaches over Standard Gauge (SG) system of Kochi Metro Rail Limited (KMRL), Kochi.

Ref: Ministry of Civil Aviation's letter No. S.15019/01/2016-17 T.W. dated 22.02.2017

In reference to the letter cited above, provisional sanction of the Ministry of Railways, Railway Board is hereby communicated for operation of Standard Gauge Metro Coaches manufactured by M/s. Alstom Ltd., with air suspension arrangement at secondary stage to M/s Alstom Limited's Drawing No. NHD0000002830 for Driving Motor (DM) and Trailer (T) Coaches over Standard Gauge (SG) system of Kochi Metro Rail Limited (KMRL), Kochi **up to maximum speed of 80 (EIGHTY) kmph in fully inflated mode, and 55 (FIFTY FIVE) kmph in deflated mode of air spring.**

The sanction is further subject to the following conditions/stipulations:

- a) Observance of conditions stipulated in KMRL's Joint Safety Certificated along with its concomitant Track Certificate and Bridge Certificate.
- b) Observance of all conditions laid down in RDSO's Interim Speed Certificate No. UTHS/12/ KMRL Mech. dated 08.12.2016.
- c) Observance of all permanent and temporary speed restrictions in force or those that may be imposed from time to time on account of Track, bridge, Signalling & Interlocking etc.
- d) Compliance of all the conditions stipulated by Railway Board while giving technical clearance for:
 - i. Traction and Power Supply system vide Railway Board's Letter No. 2015/Proj./Kochi/30/10 dated 06.01.2017.
 - ii. Signalling /Train control and communication system vide Railway Board's Letter No. 2015/Proj./Kochi Metro/30/2 dated 28.4.2016.
 - iii. Approval for Track system vide Railway Board's letter No. 2016.Proj/Kochi /30/8 dated 30.9.2016.
 - iv. Approval of Fastening system -336 vide Railway Board's letter No. 2016/Proj/Kochi/30/8 dated 27.5.2016.
 - v. Approval for Schedule of Dimensions for Kochi Metro Rail (SG) vide Railway Board's Letter No. 2016/Proj./SOD/Kochi/30/5 dated 13.4.2016.
 - vi. Approval for Design Basis Report of (version 6R March 2015) vide Railway Board's letter No. 2013/Proj/DBR/Kochi/2/7 dated 29.4.2015.
- e) Before initiating the operation of the Metro Coaches, KMRL shall certify the track fitness and safety and fitness of the rolling stock.

- f) KMRL shall ensure proper maintenance of rolling stock, propulsion equipment, control systems, signaling and interlocking, track, Third Rail System and structures.
- g) All train operators and Station Controllers shall be given sufficient training and shall be in possession of competency certificates issued by designated officer.
- h) Adequate training shall be imparted to the maintenance staff responsible for maintaining the rolling stock, signaling and interlocking, Third Rail System and track etc.
- i) For issue of final speed certificate, repeat oscillation trials are to be conducted to assess/validate riding quality and stability with worn out wheels and rails. These repeat trials are required to be done when wheel and rail wear are very close to their maximum permitted value. For this purpose, KMRL shall ensure that proper record of wear in wheel and rail is kept and timely action is taken and yearly report of the same shall be sent to RDSO from the date of start of actual operations.
- j) KMRL shall ensure that the limits of Noise and Vibration parameters of the Metro System are within the permissible limits as per legal and statutory requirement of India.
- k) KMRL shall get all their Maintenance Manuals and instructions related to Rolling Stock approved by RDSO.
- l) EIG sanction accorded vide letter No. DMRC/Elec./ED/TR/KMRL/ EIG/22/2016 1st Dec. 2016 is purely provisional for trial purposes only. KMRL to ensure regular EIG sanction before the commencement of regular running of subject rolling stock.
- m) It shall be ensured by KMRL to develop a mechanism to get their various maintenance practices audited periodically by Ministry of Railways (RDSO).
- n) There is no infringement to any of the dimensions as per approved Schedule of Dimensions for Standard Gauge of Kochi Metro Rail project.

Ruth Changsan
08-03-17
(Ruth Changsan)
Director/Works Planning
Railway Board
☎011-23097061

No.2017/Proj./KMRL/RS/29/3

New Delhi, dated 08.03.2017

Copy forward for information to:

1. **The Chief Commissioner of Railway Safety**, N.E Railway, DRM office Campus 16, Ashok Marg, Lucknow -226001 w.r.t his endorsement No. S.15019/01/2016-17 T.W. dated 22.02.2017
2. **Commissioner of Metro Railway Safety**, Southern Circle, 7, Seshadri Road, Gandhingar, Bangalore-560009 w.r.t his endorsement No. Q.15013/1/2016/KMRL/1977-88 dated 08.02.2017
3. **Director General**, RDSO, Manak Nagar, Lucknow