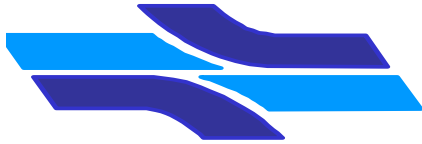


Request for Information
(RFI)

**Conversion of Double-Deck Power Coaches to
Cab Coaches**

April 2017



Request for Information ("RFI")
Conversion of Double-Deck Power Coaches to Cab Coaches

1. Introduction

Israel Railways Ltd. ("ISR") hereby requests information regarding conversion of Double-Deck Power Coaches (PC) to Cab Coaches (CC) (the "Project") from Railway Rolling Stock Manufacturers, Railway Companies, Maintenance Companies working for Railway Companies of passenger trains, all as generally defined in Appendix A attached hereto (the "**Technical Attachment**") and as further described below.

2. Objective of RFI

The objective of this RFI is to enable ISR to explore the option of designing, planning and performing the Project for 64 PC. The Project has three main objectives – conversion of machine room into passenger area, conversion of driver desk according to UIC-612 and generic preparation for integration of ETCS Level 2.

This RFI is not to be considered as a request for proposals or as a tender and the provisions of neither the Israeli *Mandatory Tenders Law 5752-1992* nor the Government Procurement Agreement shall apply hereto.

Notwithstanding the aforesaid, ISR may, as a result of this RFI, at its sole and absolute consideration, approach one or more of the Respondents to this RFI and/or any other party, in order to obtain additional information.

Notwithstanding the aforesaid, ISR may, as a result of this RFI, at its sole and absolute consideration, conduct an additional procedure, including, inter alia, tender procedure, and may use, at its sole consideration, any of the information provided in this RFI.

This RFI shall not, under any circumstances, constitute any commitment on ISR's part to negotiate with any or all interested parties, nor to enter into any agreement with regard to the Project.

3. The Response

The Respondent is invited to submit ISR data and any technical information regarding the Project and respondent past experience in conversion of Double-Deck Power Coaches (PC) to Cab Coaches (CC).

Notwithstanding the above, the Respondent should specify whether or not it complies with the technical criteria specified in the Technical Attachment, with all or part thereof.

The information should be delivered by filling out the tables as specified in Appendix B.

4. Language of Response

Responses shall be in English or in Hebrew only.

5. Submission of a Response

Responses are to be submitted in writing and/or by email: cheng@rail.co.il, no later than **May 11th, 2017**, at the following address:

ISRAEL RAILWAYS LTD.
Procurement and Contracting Division
Tel Aviv Central Train Station-Savidor (Arlozorov)
P.O.B 18085
Tel Aviv 61180, ISRAEL
To the attention of Mrs. Chen Gevirtz

6. Additional Information

Should Respondent require clarifications relating to this RFI, or if any questions arise with respect thereto, Respondent may contact, in writing only, Mrs. Chen Gevirtz, International Procurement Coordinator, via e-mail: cheng@rail.co.il

7. General

- i. This RFI shall not be construed under any circumstances as a pre-requisite or pre-qualification procedure.
- ii. This RFI is merely for the purpose of obtaining any relevant information for consideration purposes only, and ISR shall not be construed as having taken any commitment to perform the Project nor to publish any tenders or any other further procedure.
- iii. ISR may, as a result of this RFI, approach, at its sole discretion, one or more of the Respondents and/or any other party, in order to obtain additional information, commercial proposals for the performance of the Project and/or to conduct negotiations with respect to the technical and/or commercial terms, and enter into a contractual relationship with one and/or more Respondents or any other party it finds suitable to conduct any other procedure it deems necessary.
- iv. It is hereby clarified that ISR shall not be obligated to engage in any contract on the basis of this RFI and that any information presented and/or submitted to ISR through this RFI is provided voluntarily. ISR shall not be charged in any manner for the submission of information in accordance with this procedure and every Respondent shall bear its own costs with respect to this RFI.
- v. Moreover, to preclude any doubt, it is emphasized that ISR shall have the right to reject, in whole or in part, any opinion, conclusion or information delivered to it through this RFI. ISR shall also have the right to use the information presented and/or submitted to it for the purpose of planning and preparing a tender or any other procedure, should ISR decide to implement one.
- vi. ISR may at its sole discretion, request from any of the Respondents, additional information, details, approvals, recommendations and/or certificates, as required by ISR.
- vii. ISR may ignore any Response which lacks information or has unclear details.
- viii. ISR shall not be bound to accept and/or consider any Response and it does not undertake herein any commitment whatsoever towards any of the interested parties.
- ix. ISR reserves the right, at any time and at its sole discretion, to amend this RFI or any aspect thereof, as well as to extend the date for submittal of the Responses. In

addition, ISR reserves the right to cancel this RFI in its entirety at its sole discretion, without providing the Respondent(s) any (or no) reason or explanation.

- x. This RFI process is undertaken by ISR for the purpose of receiving data and information, and it does not create any obligation on ISR's part to commence, continue or complete any purchase procedure and/or to act in any other method of acquisition, and ISR shall act at its sole and absolute discretion in this respect.
- xi. ISR reserves the right to accept, in future stages, information and/or any commercial proposals from entities which did not participate in this RFI process, as ISR shall deem fit.
- xii. ISR reserves the right, as a result of this RFI, at its sole consideration to conduct an additional procedure, including, inter alia, tender procedure, and may use, at its sole consideration, any of the information provided in this RFI.

Appendix A

1. Background

ISR operates 64 PC manufactured by Bombardier Transportation between 2001 and 2014 as shown in table below.

Year of manufacture	Quantity
2001	7
2002	7
2004	9
2005	1
2006	6
2012	16
2012	6
2014	12

Each PC consists of three major sections – driver cab, machine room and passengers' area as shown (see Appendix A). Machine room is equipped with two diesel generator sets which supply electric power to the trainset auxiliaries.

2. Machine room conversion

Electrical power supply for entire trainset shall be provided by electrical locomotive instead of diesel generators sets of PC, which are currently located in machine room.

ISR intends to perform conversion of PC to CC in such a way that machine room shall be transformed into passenger area.

Scope of the work:

- 2.1. Removal of the diesel generator sets and all related auxiliary systems and equipment located inside and outside the coach.
- 2.2. Conversion of the former machine room into passenger area. This process shall include installation of all passenger area components and systems including, but not limited to: external and internal walls, roof, ceiling, luggage racks, under frame and floor; introduction of windows and entrance doors; arrangement of seats with optimal use of the available space.
- 2.3. Installation of coach systems such as HVAC system, lightings and sockets, passenger information system (PIS), Wi-Fi, smoke detection system, control and diagnostics system, electrical infrastructure, etc.

3. Driver Cab conversion

E-Loco and other future electric rolling stock will be equipped with driver desk in accordance with UIC-612. Therefore, for the purpose of unification, there is requirement for conversion of driver desk layout in accordance with UIC-612.

This work shall include all subsequent modifications for mechanical support, components rearrangement and routing of cables and pipes.

The dedicated requirements and recommendations of UIC 651 shall be fulfilled.

4. Preparation for integration of ETCS Level 2

ISR is interested in the implementation of ETCS Level 2 system. The definition of type and choice of supplier of ETCS Level 2 system is in progress, but still not finalized. The objective is to make generic preparations for integration of ETCS Level 2 on-board system. This part of the work shall include, but not limited to carbody and interior modification for mechanical support, arrangement of ETCS components, routing of cables, integration of GSMR antenna and modification of all influenced systems.

5. General requirements

- i. The project shall be performed in Israel at site proposed by supplier.
- ii. All changes in vehicle and its systems shall be compatible with existing DD PC engineering concepts.
- iii. All proposed designs shall be based upon relevant calculations such as electrical load, weight balance, strength calculations, Finite Elements Method, heat balance, heat transfer and flow distribution, etc.
- iv. Internal space shall be utilized optimally in order to achieve maximum capacity of passengers in accordance with comfort and safety requirements of relevant European standards.
- v. All conversion works including interior elements shall be designed in accordance with requirements of all pertinent fire safety norms and standards including Israeli fire safety regulation (SI 5435) and EN 45545.
- vi. Converted CC shall be suitable for operation in tunnels with length of 12 km with operation speed of 160 km considering train crossing.
- vii. The safety of train control and monitoring system shall be demonstrated in accordance with EN 50126, EN 50128 and EN 50129.
- viii. RAMS requirements shall be met in accordance with EN 50126.

Appendix B

RFI concerning Conversion of Double-Deck Power Coaches to Cab Coaches

Respondents are requested to fill in the questionnaire below.

<u>Table I: General Information Concerning the Respondent</u>			
Name of Respondent			
Respondent Address			
Respondent Contact Person			
Contact's person Telephone No.		E-Mail:	
Respondent General Profile			
Respondent Professional Certifications (Such as ISO 9001:2008/2015, IRIS, etc.)			
Respondent owner, main customers and main fields of expertise.			

<u>Table II: Information Concerning Respondents Past Experience</u>
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Please specify respondent's past experience in Conversion of Double-Deck Power Coaches to Cab Coaches. Please specify for each Project, the following information:

Customer No. []:

Name of Customer:			
Address of Customer:			
Customer's Contact person (name, title):			
Contact's person Telephone No.		E-Mail:	
<u>The Project included:</u>			

- **Please duplicate this table II as applicable**

Table III: Information concerning the Project

<p>Please submit any relevant technical information in regards to the Project</p>	
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Table VII: Information concerning the cost of the Project

<p>Please specify All relevant Information regarding the cost of the Project</p>	
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