



December 3, 2017

Re: **NOTICE #5 TO PARTICIPANTS**
TENDER NO. 41733

This notice (the "Notice") is being furnished to Bidders in accordance with the provisions of Section 24 of the General Terms and Conditions of the Tender Documents (the "General Terms").

Capitalized words and terms used herein and not otherwise defined shall have the same meaning ascribed to them in the Tender Documents.

The Final Submission Date referred to in Section 16.3 of the General Terms is hereby postponed to **January 1st , 2018, at 13:00** (Israel time). It is hereby clarified that the aforementioned date is the **Final** submission date, and bids can be submitted prior to this date, by appointment.

Regarding any matter not specifically addressed in this Notice, the Tender Documents remain unchanged and fully binding.

Explanatory Note

For the removal of doubt, with respect to any question or request not specifically addressed in this Notice, the Tender Documents remain unchanged and fully binding. It is hereby further clarified that throughout the Tender Process, ISR shall only be bound by information submitted by ISR in writing, and no oral or other non-written response or information will bind ISR for any purpose whatsoever.

Tender Documents

1. **Question:** ISR has been requested to amend the amount required in the Pilot Stage.

Answer: Bidders are referred to amended Tender Documents.

2. **Question:** In relation to section 1, ISR has been requested to amend the prerequisites so that no actual experience in supply and installation of PCM shall be required.

Answer: ISR has reviewed the request and decided not to accept it.

3. **Question:** In relation to section 5, ISR has been requested to amend the date for submitting the Bid Guarantee.

Answer: Bidders are referred to amended Tender Documents.

Technical Specifications

4. **Question:** In relation to section 2.4.2, ISR is requested to clarify the required comparison.

Answer: This comparison is between the nominal curve (the one for a machine in normal conditions) and the actual one (the one creating in real-time by the system). This should be the input data that the system uses to decide when the machine is near the end of its life cycle (using their internal algorithms) and therefore generate an alarm that create a request for maintenance this specific machine before an actual failure is present.

5. **Question:** In relation to section 2.2.1, ISR is requested to specify what is included inside the control room.

Answer: In the control room there are a variety of different control systems that work in parallel with each other.

6. **Question:** ISR is requested to conduct a site survey.

Answer: ISR has reviewed the request and decided not to accept it, since such site survey is not required for the purpose of submitting a proposal.

7. **Question:** ISR is requested to clarify whether it is possible to connect to the PCM in order to measure voltage.

Answer: Data collection from the switching point motor should be done **non-invasively** from the safety viewpoint.

8. **Question:** ISR is requested to clarify who will supply the nominal curve.

Answer: It is the bidder's responsibility to acquire the nominal curve of the point machines during the pilot phase. However, it is up to ISR to give them access to a standard machine that they could as a reference to create these curves.

9. **Question:** ISR is requested to provide the detailed technical specifications of the existing point machines.

Answer: The name of the exact equipment is provided in the technical specification: L700H and L826H, the bidder should have access to this information.

10. **Question:** ISR is requested to clarify the frequency of operation of the existing point machines.

Answer: The frequency of operation is: in few stations, several hundred movements per day.

11. **Question:** ISR is requested to clarify what does real-time data processing and

analysis mean and how much delay might be possible between data acquisition and visualization.

Answer: It is up to the bidder to assure that the alarm is received with enough time.

12. **Question:** ISR is requested to clarify which sampling rate and which resolution is required.

Answer: It is up to the bidder. It must be good enough so its internal algorithm can detect an incoming failure before it actually happens.

13. **Question:** ISR is requested to clarify is there available data at ISR that could be used to identify defect point machines.

Answer: No. This is one of the main purposes of the pilot phase: to calibrate the equipment.

14. **Question:** ISR is requested to clarify what relevant information should be shown in the general menu when list of point machines is selected via click on a station.

Answer: This is to be defined 100% during commissioning stage since the exact parameter may depend on the solution provided by the supplier. At the very least it should be id, model, status along with any measure parameter that helps in this context (for instance, if the system uses temperature for its algorithm this should be displayed also).

15. **Question:** ISR is requested to clarify the meaning of accumulative curves and evolution over time when one certain movement of the point machine is selected.

Answer: Each time a point machine moves the system must record a curve and make an analysis to identify if it near the of its life cycle. This curves must be stored by the system for future reference and analysis. This historical record must be accessible for each point machine so its performance evolution can be checked.

Please confirm receipt and acknowledgement of the above Notice, by returning email to the undersigned at: cheng@rail.co.il.

Yours Faithfully,

Chen Gevitz

Chen Gevitz

Head of International Procurement Department