



**BEML LTD**  
(A Government of India Undertaking)  
New Thippasandra Post, Bangalore – 560 075.  
Tel.25022636, 25240680, Fax: 25243137 & 25245545

Date: 30.11.2020

**CORRIGENDUM-3**  
**TENDER NO (BID INVITATION NUMBER): 6300034711**

TENDER DESCRIPTION: "OSCILLATION TRIAL TEST for MRS-1 PROJECT"

1) Bidders clarification & BEML reply with reference to the above tender is given in the below Table-A.

**TABLE- A**

| Sl.No. | Vendor Clarification  | BEML reply  |
|--------|---|---|
| 1      | ERTS-1-2-3- Paragraph 1: As we can see, the test unit is composed by 6 cars. How many cars are going to be instrumented/ tested? Is the unit symmetrical? In this case, is testing 3 cars enough?   | Instrumenting 3 cars is enough.<br>Yes. The 6 car units are symmetrical.  |
| 2      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 6: How many instrumented wheel sets are required? For quotation purposes, 2 trailer IWS and 2 motor IWS will be considered.  | For quotation purposes, 2 trailer IWS and 2 motor IWS will be considered. The decision will be taken during technical evaluation by BEML. |
| 3      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 6: Is it required to supply Instrumented wheel sets (IWS) as a product including their telemetry (quite expensive)? If so, Is it necessary to consider training activities?  | Yes it has to be supplied, and training has to be provided.   |
| 4      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 15: For the identification of the damping factor, we assume that the wedge test should be performed, could you confirm? If the wedge test must be performed, will the tests be performed with and without dampers? | The test has to be performed with dampers.  |
| 5      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 18: In order to perform the test in loading condition (AW3) it is necessary to load the unit. In this case, the loading distribution should be provided by the manufacturer of the unit, could you confirm?        | Yes. The loading will be done by BEML.  |
| 6      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 20: Brake. According to ERTS 15.15, apart from the Emergency Brake and WSP (included in ERTS 1.2.3 (iv and v), any other Brake test is needed?   | Brake test need not be quoted as that will be done by the brake supplier.   |
| 7      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 24: Is it necessary to provide a standalone license along with software used for the analysis of the raw data? In this case, is it necessary to give training lessons?   | Yes. Training and training manual has to be provided.   |
| 8      | Annexure-1-GR-TD-5179 (Scope of Work)<br>Point 25: One complete set of data acquisition   | Only oscillation trails DAQ to be provided. Brake test is not required.   |



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|    |  |   |
|----|--|---|
|    | instrumentation and system/sw is needed: We would propose to include one data acquisition system that could be used for oscillation trials and brake test.   |   |
| 9  | ERTS-Chapter-15- Point 15.5.2: Is it required to supply Instrumented Wheel sets with both new and worn profile? This will duplicate the number of wheel sets considered in this quotation (8 instead of 4)   | No.   |
| 10 | ERTS-Chapter-15- Point 15.5.2: Is it required to re profile new profile wheel sets? In this case, recalibration may be required.   | No. The wheel sets will be provided in new profile condition and no re-profiling is required.   |
| 11 | ERTS-Chapter-15- Point 15.5.2: Is it necessary to perform the whole oscillation trials test campaign with new and with worn wheel profiles (if so, the number of days to be considered would be the double compared with only one wheel profile test campaign)?  | No. The trails will be done only in new wheel profiles.   |
| 12 | RDSO Procedure for Metro: Could you describe the computation processing for each parameter described in the table of page 35 of Annex F1 of "RDSO Procedure for Metro.pdf" document? Like filters to be applied and signal processing (moving mean, rms, fft, maximum-minimum values, continuous values or divided in sections, stability and instability...). How are the final results obtained? One option is that Consultant define the methods for this particular application.                                 | Consultant to propose the methods for each application However detailed methodology to be provided during the quote with images so as to take approval from the vendor. |
| 13 | Annex F1 (page 35), table-row 3: In case of instrumented wheel set are required, then the wheel loading/ unloading ratio could be computed using them instead of spring deflection. Is it necessary to measure spring deflection in case of the test unit will be equipped with instrumented wheel sets? (Please, note that loading /unloading measured from spring deflections is a rough estimation which requires tough instrumentation and processing tasks, that can be avoided using instrumented wheel sets.) | Spring deflections must be measured.  |

2) Tender Closing date (Submission of Pre-Qualification Bid, Technical bid & Commercial Bid) and Opening of Pre-Qualification Bid, Technical Bid dates are extended from 30.11.2020 to 07.12.2020.



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Details are furnished below as FOR and READ AS.

**FOR:**

| Sl.No | Details   | Important Date & Time  |
|-------|---|--|
| 1.    | Last date for receipt of Pre-Qualification Bid (i.e. Integrity Pact) through Manual Mode. | 30.11.2020 up to 1330 Hrs.   |
| 2.    | Opening of Pre-Qualification Bid (i.e. Integrity Pact) through Manual Mode.               | 30.11.2020 at 1400 Hrs.  |
| 3.    | Last date for Submission of Technical Bid & Commercial Bid through E-mode.                | 30.11.2020 up to 1330 Hrs.   |
| 4.    | Opening of Technical Bid through E-mode.  | 30.11.2020 at 1600 Hrs.  |
| 5.    | e- Reverse Auction & Opening of Commercial Bid through E-mode                             | e-Reverse Auction will be conducted only for Technically qualified bidders and e-Reverse auction date will be informed later to technically accepted bidders only.<br><br>Subsequently commercial bid of technically qualified bidders will be opened. |

**READ AS:**

| Sl.No | Details   | Important Date & Time  |
|-------|---|--|
| 1.    | Last date for receipt of Pre-Qualification Bid (i.e. Integrity Pact) through Manual Mode. | 07.12.2020 up to 1330 Hrs.   |
| 2.    | Opening of Pre-Qualification Bid (i.e. Integrity Pact) through Manual Mode.               | 07.12.2020 at 1400 Hrs.  |
| 3.    | Last date for Submission of Technical Bid & Commercial Bid through E-mode.                | 07.12.2020 up to 1330 Hrs.   |
| 4.    | Opening of Technical Bid through E-mode.  | 07.12.2020 at 1600 Hrs.  |
| 5.    | e- Reverse Auction & Opening of Commercial Bid through E-mode                             | e-Reverse Auction will be conducted only for Technically qualified bidders and e-Reverse auction date will be informed later to technically accepted bidders only.<br><br>Subsequently commercial bid of technically qualified bidders will be opened. |



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All other Terms and conditions of the tender ref: 6300034711 are remains same.

Regards

Deputy General Manager  
Purchase Dept.  
BEML Limited,  
Bangalore Complex  
Bengaluru-560075.  
Contact No: 080- 25022636.