

CORRIGENDUM-1

TENDER NO (BID INVITATION NUMBER): 6100001040

TENDER DESCRIPTION: "NOISE AND VIBRATION CONSULTANT FOR MRS1 PROJECT"

Pre Bid meeting was held on 03.02.2020 @ 1300 Hrs in BEML Limited, Bangalore complex against the tender ref: 6100001040 dated: 25. 01.2020 for "Noise and Vibration Consultant for MRS1 Project".

The details of the pre bid meeting discussion are indicated below. The following four companies have attended Pre Bid meeting on 03.02.2020

Sl.No.	Vendor Name
1.	M/s. NV Dynamics, Bengaluru
2.	M/s. SV Ideas Engineering Services Pvt Ltd, Bengaluru
3.	M/s. LogoMotive GMBH
4.	M/s. Siemens Industry Software (India) Pvt.Ltd, Bengaluru

Scope of work, Terms & Conditions of the tender has been explained to the Vendors during the Pre Bid Meeting.

The vendors have asked the queries to our tender enquiry at ref: 6100001040. The following queries have been clarified by BEML Ltd during the Pre-Bid meeting to the vendors.

Sl.No.	Vendors Queries	BEML reply
1.	After the contract period, for how long the consultant should associate with BEML for this project, refer page 6, SOW 3.1; The overall contract is for 2 years and what is the expected over run period, specify compensation for the overrun period ?	Consultancy period shall be for 2 years. Consultant shall associate with BEML during physical testing of Noise and vibration which will be conducted twice i.e. once after 6 months of start of train operation and second before 6 months of end of DPL period (DLP period will be for 2 years after delivery of last train set). These tests shall be done on tracks at Mumbai. Exact test schedule for these Tests is not known but is expected to fall after the end of consultancy period of 2 years. Consultant should support BEML for both these tests even if they are conducted after consultancy period.
2.	Do the consultant's presence required for all the tests and activities or will the consultant guide the sub-contractor through the process and monitor the progress?	For all major sub systems, Consultant shall review the noise and vibration test plan, test report and guide BEML through the process and monitor the progress. Consultant is not required to participate in these tests.
3.	Who will pay for the transportation for consultant to attend the meetings / schedules outside Bangalore (Delhi / Mumbai etc)?, how much in advance the meeting schedule will be known, can anybody from the consultant team attend these meetings ?	Consultant shall arrange the transportation and stay on their own. Usually meeting schedule will be known about a week in advance. Anybody from consultancy firm can attend the meeting. However if the person attending the meeting is not able to explain/clarify the issues to the customer, correction responsibility lies with consultant.
4.	Are these meetings always a physical sittings or over phone/net	Usually these meetings will be physical sittings, either at BEML Bangalore or DMRC Mumbai or MMRDA Mumbai.
5.	EMD exemption? – No mention of EMD exemption for MSME	EMD is not applicable for this Tender.
6.	Are payment made to consultant after each stage of task or is this after the sub-contractor completes the executables, define the payment terms more clearly	As per Tender, Payment will be released on following three stages Stage 1: Finalization of Design Covering all the activities specified in PTS and Submission of report.

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		<p>Stage 2 : Completion of Noise and Vibration Simulation. Stage 3: Completion of Car Level Type Test and acceptance by DMRC.</p> <p>Explanation of above three stages of payments are given below</p> <p>Stage 1: Finalization of Design covering all the activities specified in PTS and Submission of report.</p> <p>Explanation: The consultant has to finalize the design covering all the activities specified in PTS and Submission of report.</p> <p>After submission of report, Payment will be released based on the R&D department certification. (Number of days for releasing of Payment is indicated in the Tender)</p> <p>Stage 2: Completion of Noise and Vibration Simulation.</p> <p>Explanation: BEML will release separate Purchase order for execution of Noise and Vibration test following the laid down procedure. (Herein Called as "Sub Contractor")</p> <p>Guidance of consultant is required for sub contractor for completion of Noise and Vibration Simulation.</p> <p>After completion of the simulation work by sub contractor, 2nd Stage Payment of Consultant will be released based on the R&D department certification (Number of days for releasing of Payment is indicated in the Tender)</p> <p>Stage 3: Completion of Car Level Type Test and acceptance by DMRC.</p> <p>Stage 3 Payment is splitted into two stages as stage 3 (A) & 3 (B) as indicated below</p> <p>Stage 3 A: Completion of car level type test after six months of train operation and acceptance by DMRC.</p> <p>Stage 3 B: Completion of car level revalidation test, 6 months Before the end of DLP and acceptance by DMRC.</p>
7.	(Page 6 of Tender Document). Paragraph 3.1. Consultant shall visit BEML Bangalore for at least 3 days/month during consultancy period. Would it be possible to substitute some visits for video	As the consultant has to review many car body drawings, models, sub system documents, test procedure for sub system and car level, manufactured car body at various stage, it is required for consultant to visit BEML every month during design stage. Hence consultant shall visit BEML every month for 3 days during first six

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	conference calls? Our proposal would be one visit every three months plus video conference call every month. Could you confirm if it is OK for you?	months and shall visit once in 3 months thereafter. However video conference call shall be scheduled every month.
8.	(Page 7 of Tender Document). Paragraph 3.4.xii. Could you please confirm if the tests should be performed by the tenderer or if they will be subcontracted (as mentioned in 7.iii paragraph)? Should we quote the test services?	Tests will subcontracted. consultant shall participate in the tests and guide BEML for successful completion of tests. Tests will be separately tendered out later and you may participate in that tender also. Please do not quote for tests in present tender. Tests will subcontracted. Consultant shall participate in the tests and guide BEML for successful completion of tests. Tests will be separately tendered out later and you may participate in that tender also. Please do not quote for tests in present tender.
9.	(Page 7 of Tender Document). Paragraph 3.4.xii. Second bullet. There is a second campaign scheduled after 2 years of operation. Should we quote also this campaign execution?	Tests will subcontracted. Consultant shall participate in the tests and guide BEML for successful completion of tests. Tests will be separately tendered out later and you may participate in that tender also. Please do not quote for tests in present tender.
10.	(Page 8 of Tender Document). Paragraph 7.iv. If CETEST (tenderer) is requested to perform the test, would we also be required to perform the Rail Roughness and Track decay rate measurement? Do you want us to quote this measurement?	Rail Roughness and Track decay rate measurement will be part of physical testing tender. Please do not quote for measurement in this tender. However consultant shall guide BEML for completion of these tests.
11.	(Page 8 of Tender Document). Paragraph 7.iv. Regarding the sentence (Consultant shall use the correction factors as per standards, if rail conditions and environmental conditions are not adequate as per standards), we have the following comment: International standards such as ISO 3095:2013, ISO 3381:2005 and EN 15892:2011 only define the acoustic rail roughness spectrum limits and the minimum track decay levels in lateral and vertical directions. In addition, ISO 3095:2013 describes a flexibility process in order to assess acceptable small deviations from the rail roughness limit. No correction factors are allowed by the standards. Nevertheless, the influence of the track characterization can be evaluated by means of simulations and calculations out of the scope of the applicable standards	Proposal accepted
12.	(Page 12 of Tender Document). Annexure A. Item 3. CETEST consultants are highly skilled in rail roughness measurements. Specifically, with the equipments manufactured by Müller-BBM and APT Rail, both fulfill the requirements of the	Performing these tests will be part of physical testing tender and are not in the scope of present tender. Consultant shall analyze the test results and take action accordingly.

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	accreditation according to standard ISO 17025. Although, CETEST does not own a CAT device, consultants can analyze and validate the results obtained by means of this system. According to our question 4., if CETEST has to measure, we would propose to use other equipment than CAT. If CETEST only analyses the data, no problem that they come from CAT device.	
13.	SV IDEAS has a Joint Venture agreement with Wilson Acoustics. As it is practically difficult for Wilson Acoustics for bidding in India, they have provided Authorization certificate declaring that SV IDEAS is authorized to bid for tenders in India. So bidding will be done by SV IDEAS; Wilson Acoustics will provide the necessary documentation. If the project is awarded, the execution will be jointly done by WILSON Acoustics & SV Ideas	If SV Ideas is bidding for this Tender, then documents which are sought by BEML in the Eligibility criteria and Technical Bid (Annexure-A) should be in the name of M/s. SV Ideas only.

Bidders are requested to kindly note & comply the following amendment/Modification of Scope of Work clauses which is given in "READ AS" column.

Tender Cl. No.	Existing Specification as per Tender (FOR)	Revised as (READ AS)
3.1	Noise and vibration Consultancy firm/Consultant shall provide consultancy to BEML in noise and vibration aspects of design, development, manufacture, testing and commissioning of MRS1 Cars as per the delivery requirements of MRS 1 contract. Expected period of consultancy is about 2 years. Consultant shall visit BEML Bangalore for at least 3 days/month during consultancy period.	Noise and vibration Consultancy firm/Consultant shall provide consultancy to BEML in noise and vibration aspects of design, development, manufacture, testing and commissioning of MRS1 Cars as per the delivery requirements of MRS 1 contract. Expected period of consultancy is about 2 years. Consultant shall visit BEML Bangalore for at least 3 days/month during first six months and for at least 3 days once in every 3 months thereafter, however video conference call shall be scheduled every month.
3.4 iv	Recommend noise and vibration quality control measures and tests on sub-suppliers to meet the noise and vibration requirement. Participate in the noise and vibration tests at sub-system suppliers place and confirm that they meets the specified limits.	Recommend noise and vibration quality control measures and tests on sub-suppliers to meet the noise and vibration requirement.
3.4 v	Participate in all noise and vibration performance tests on each equipment to meet and ensure the specifications meets the MRS1 Noise and vibration requirement.	For all major sub systems, Consultant shall review the noise and vibration test plan, test report and guide BEML through the process and monitor the progress.

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3.4 xii	Noise and Vibration consultant shall be involved in performing noise and vibration test to meet the contractual requirements as below, even if tests are scheduled after the end consultancy period <ul style="list-style-type: none">• The noise tests during running condition shall be done in the section after six months of train operation.• All specified noise measurements shall be revalidated 6 months before the end of Defect Liability Period (2 years from start of operation). Consultant shall participate in tests at track level (expected in Mumbai). If the results are not meeting the project requirement, consultant shall recommend the measures to be taken up for reducing the noise and vibration limits under specified limits.	Noise and Vibration consultant shall be involved in performing noise and vibration test to meet the contractual requirements as below, even if tests are scheduled after the end consultancy period <ul style="list-style-type: none">• The noise tests during running condition shall be done in the section after six months of train operation.• All specified noise measurements shall be revalidated 6 months before the end of Defect Liability Period (2 years from the date of supply of the last train set). Consultant shall participate in tests at track level (expected in Mumbai). If the results are not meeting the project requirement, consultant shall recommend the measures to be taken up for reducing the noise and vibration limits under specified limits.
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All other Terms and conditions of the tender ref: 6100001040 are remains same.

**Assistant General Manager
Purchase Dept.
BEML Limited
Bangalore Complex**