



GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

**Global Tender for
Consultancy for Training & Development for
UIC-518 standards for Coaching stock**

Estimated Value of the Tendered Work/Service:
Rs 6,58,73,500/- (Rupees Six crores, fifty eight lakhs, seventy
three thousand and five hundred only) inclusive of all taxes.

Tender Document

**Tender No. RM2/Changeover to UIC-518/2018/GT
Opening on 22/10/2018**

Total Number of Pages = 46

**RESEARCH DESIGNS AND STANDARDS ORGANISATION
MINISTRY OF RAILWAYS
MANAK NAGAR
LUCKNOW-226011
INDIA**

Preamble

Tender document for work of **"Consultancy for Training & Development for UIC-518 standards for Coaching stock"** have been divided in following parts, as under:-

General Instructions to Tenderers	Page no. 3 to 9
Bid Form-First Sheet	Page no. 10
Bid Form-Second Sheet	Page no. 11 to 15
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Government of India, Ministry of Railways, Research Designs and Standards Organization reserves the right to accept or summarily reject or cancel any or all bids without assigning any reason.

GENERAL INSTRUCTIONS TO TENDERERS

- 1.1 This Tender Document is non-transferable.
- 1.2 DESCRIPTION & LOCATION OF THE ORGANISATION: Research, Designs & Standards Organisation (RDSO) is situated at Manak Nagar, Lucknow which is the capital city of the State of Uttar Pradesh, India. This Organisation is engaged in research, design & standardisation of works in various railway disciplines. Testing Directorate is part of this organization and conducts oscillation trials in the field using Oscillograph cars.
- 1.3 In the bid document '*Railways*' shall mean 'Research Design and Standards Organisation' situated at Manak Nagar, Lucknow. Similarly the word '*Manager/Chief Manager*' shall mean Director Testing/Executive Director/Testing, RDSO or any higher authority of RDSO.
- 1.4 In connection with the work of Consultancy for Training & Development for UIC-518 standards for coaching stock of Indian railways, the Executive Director (Testing)/RDSO on behalf of the President of India invites open tender for the work of "Consultancy for Training & Development for UIC-518 standards for coaching stock". The details of works covered under the Scope of Works are given in "Special terms & conditions/specifications" of the tender document.
- 1.5 In order to avoid summary disqualification in the tender at early stages itself, the following should be kept in view. This list is indicative to assist the bidders in filing their documents correctly for the tender and should not be considered as the only conditions applicable to be qualified for the bid. The bidders are advised to study the complete document carefully to understand all terms and conditions. The submission of the tender shall be deemed to have been done after careful study and examination of the tender document with a full understanding of the implications thereof:
- 1) During bid submission, the tender document is to be signed and stamped by the bidder on each page and the complete document should be submitted along with the bid. The Tender Document can be downloaded from the RDSO's website. Instead of downloading, the tender document can also be purchased in hard copy from Office of Executive Director/Testing/RDSO, Lucknow, India on payment of requisite fee.
 - 2) The cost of the Tender Document is INR 10,000/- only. Tender Document cost **must** be submitted **either** in Cash at DCPM/Northern Railway, Charbagh, Lucknow, India **or** in the form of a Demand Draft from any nationalized bank or scheduled bank of India. In both cases the instrument should be in favour of the Executive Director/Finance/RDSO.
 - 3) The Earnest Money for this tender is INR 4,79,370/- only. The Earnest Money **must** be submitted only in the form of any one of the following instruments:
Deposit receipt, Pay Orders or Crossed Demand Draft in favour of the "Executive Director/ Finance, RDSO, A/C **"Name of the firm"**, Lucknow payable at Lucknow, India executed by State Bank of India or any of the Nationalized or Scheduled Bank in India.
Tender Document Cost and Earnest Money submitted in any other form will not be accepted.
 - 4) For financial standing both with reference to **turnover** (minimum 150% of the advertised value of this tender) and **liquidity** (minimum 5% of the advertised value

- of this tender) the audited balance sheet and certification from auditor should be ensured.
- 5) Please ensure that the payment received details are positively provided in the form of certificate by the clients in the format Annexure-II without leaving ~~in~~ column and rows when submitting documents against the qualifying condition of having completed **single similar nature work** amounting to 35% of the advertised value of this tender.
 - 6) The General Conditions of Contract for Services document of Indian Railways is applicable to this tender. The Special Conditions of Contract stipulated in the Tender Document are in addition to these GCC for Services. At this time, the GCC for services can be downloaded from Indian Railways official website by the following link <http://indianrailways.gov.in/railwayboard> and then following the link 'About Indian Railways' → 'Railway Board Directorates' → 'Transformation Cell' → 'Circulars' → PDF document at Sl No 77.
 - 7) The **ISO-9001** certification is required as per the tender conditions. Please note that the ISO-9001 certification should be valid on the date of tender opening and that the ISO-9001 certification is for the field of Testing of Railway Rolling Stock.
 - 8) The ISO-9001 certification sought is separate from **accreditation** of the bidder by authorized national/international regulatory body for conducting Tests of Rolling Stock as per UIC-518 and/or EN-14363.
 - 9) The tender document prescribes certain formats for providing information. These format, where ever prescribed in tender document, must be adhered to and no change(s) in the prescribed format should be done by the bidders. Specific attention is drawn to the Annexure-II (Experience certificate) of this tender document.
 - 10) Deviation from any clause in the tender document is generally not acceptable. If any additional information is to be furnished against any clause(s) stipulated in the tender document then it should be mentioned in a separate sheet giving clear reference to the specific clause(s).
 - 11) Please visit the RDSO's website frequently to note any corrigendum or important information uploaded in regard to the tender. The location for such corrigendum or important information shall be same as that for the Tender Document.
 - 12) Please read the tender document carefully to understand the documents required to be submitted along with the bid. Please note that after opening of the tender, no further document submission is permitted.
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- 1.6 All information in the tender must be in English. Information in any other language must be accompanied by its authenticated translation in English. In the event of any discrepancy between a tender in a language other than English and its English translation, the English translation will prevail.
 - 1.7 The tender shall be either typewritten or hand written neatly in indelible ink and corrections, if any, attested by the individual signing the tender.
 - 1.8 The cost of tender document is Rs. 10,000/- as stipulated in the tender document payable through separate DD (Demand Draft) in favour of Executive Director/Finance of RDSO and submitted with the bid.
 - 1.9 Tenderers should keep their offers valid for period of 90 days from the date of opening of tender.

- 1.9.1 The tender shall be addressed to Executive Director/Testing, Air Brake Lab, Testing Directorate, R.D.S.O., Manak Nagar, Lucknow-226011, in a sealed cover & marked "Offer for Works Tender No. RM2/Changeover to UIC-518/2018/GT".
- 1.9.2 Tenders sent by registered post shall be with acknowledgement due. The RDSO administration does not take any responsibility on account of delay, loss or non-delivery of the tender document sent by post.
- 1.9.3 Tender can also be dropped in the Tender Box painted in Blue Colour and written "Mech. Engg. Dte." on Tender Box located in RPF post, near TEN office, RDSO, Manak Nagar, Lucknow-226011. The tender box will be sealed at 14.30 hrs. on 22.10.2018. The tender will be opened on 15.00 hrs. at the location mentioned above on 22.10.2018. The tenderer(s) or their authorized representatives may choose to witness the opening of tender on 22.10.2018 at the same place. The tender document will not be sold after 12.00 hrs. on 22.10.2018.
- 1.9.4 The Tenderer shall state in the tender his postal address, fully and clearly. Any communication sent in time to the tenderer by post at his said address shall be deemed to have reached the tenderer duly and in time. Important documents will be sent by Registered post. Scanned copies of important documents in PDF format may also be sent through Email for advance information. For this purpose, the tenderer must also provide her official email ID.
- 1.9.5 The tenders complete in all respects shall reach Executive Director/Testing, Air Brake Lab, Testing Directorate, RDSO, Lucknow up to 14.00 hrs. on 22.10.2018. Tenders received after this time & date are liable to be rejected.
- 1.10** Last date for submission and closing of tenders that is, dropping of tender in the Tender Box and sealing of the Tender Box is 22.10.2018 at 14.30 hrs.
- 1.11** All the copies of forms enclosed with tender paper should be duly filled in by the tenderer and attached along with the tender duly signed and Stamped on each page.
- 1.12 Tenderers should submit the following documents for Technical Evaluation of Bid**
- Tenderers shall submit documents which are mandatory according to para number 2.6.2.1 of GCC-Service of Indian Railways.
- 1.12.1 Tenderers Credentials:** The bidder(s) shall submit documents related to completed/on-going SIMILAR service contracts during last three financial years and the current financial year along with the details of payments received. Certificate from client firm(s) authorizing payment received, contract-wise for completed/on-going similar service contracts should be submitted along with the bid.
- 1.12.2 Details of Turnover:** Annual turn-over in the last three financial years and current financial year up to the date of opening of bid as per audited Balance Sheet certified by chartered accountant.

- 1.12.3 **Details of Liquidity:** The details of liquidity as per audited Balance Sheet and/or banking references certified by chartered accountant with her stamp signature and membership number. The banking reference should be from a scheduled bank in India and it should not be more than three months old as on date of submission of bids.
- 1.12.4 **Experience of conducting on-track trials** of Railway Rolling Stocks as per UIC-518 and / or EN-14363 standard for customers in last five financial years and current financial year up to the date of opening of tender. Experience or performance certificate from the client firm clearly bringing out the type of trial done, the test standard used and, period of trial.
- 1.12.5 **Experience of consultancy or training** of customers in last five financial years and current financial year up to the date of opening of tender. for one or more activities covered under the scope of accreditation available with the bidder for Testing, Measurement and Testing Equipment. Experience or performance certificate from the customer clearly bringing out the nature of training / consultancy carried out and the period of such training/ consultancy.
- 1.12.6 **Supply of Instrumented Measuring Wheels** on separate supply orders or as part of Testing campaign undertaken for customers in last five financial years and current financial year up to the date of opening of tender. Attach the copy of supply order from the customer clearly bring out the supply of Measuring wheel set and the period of such supply.
- 1.12.7 **Certificate of Accreditation** from authorized national/international bodies, covering the scope of Testing, Measurement and Testing Equipment services provided by the bidder. The accreditation certificate shall be valid as on the date of opening of tender.
- 1.12.8 **ISO-9001 certificate** covering the field of Testing of Railway Rolling Stock in its scope. The ISO-9001 certificate should be valid as on the date of opening of tender.

The tenders with incomplete documents shall not be evaluated and shall be summarily rejected.

- 1.13 The RDSO attaches utmost importance to realistic and timely deliveries and completion of the work. The basic consideration and the essence of the contract shall be the strict adherence to the stipulated time frame and proper quality of maintenance.

1.15 General Instructions

- 1 **An earnest money** equivalent to **Rs. 4,79,370/-** shall accompany the tender. The tender not accompanied by Earnest Money in any one of the approved forms shall be rejected summarily. The Tenderer is required to deposit an Earnest Money of **Rs. 4,79,370/-** (Rupees Four Lakh Seventy Nine Thousand Three Hundred and Seventy only) in favour of Executive Director/Finance of RDSO.

- 2 No interest shall be allowed on the earnest money.
- 3 The Earnest Money is likely to be forfeited if the tenderer withdraws commitments, impairs or derogates from the tender in any respect within the period of his offer.
- 4 The Earnest Money of unsuccessful tenderers will be returned to them by RDSO after finalisation of bid process.
- 5 Performance Guarantee (PG) at a rate of 10% of the contractual amount shall be deposited by the successful bidder in the favour of Executive Director/Finance of RDSO. The conditions related to Performance Guarantee shall be governed by para no. 4.11 of GCC-Services.
- 6 **Minimum Eligibility Criteria:** The Tenderers must submit documentary proof for qualifying against the minimum eligibility criteria as per Para no. 2.6.1 of GCC for Service of Indian Railways. The said para 2.6.1 of GCC-Services is reproduced below (in italicized font) for ready reference:

*2.6.1.1 Work Experience: The bidder should have satisfactorily completed *in the last three previous financial years and the current financial year upto the date of opening of the tender, one similar single service contract **for a minimum of 35% of advertised value of the bid.*

**Completed service contract includes on-going service contract subject to payment of bills amounting to at least 35% of the advertised value of the bid.*

***Similar service contract means any contract that is so specified by the competent authority.*

Similar single service contract for the purpose of this tender shall mean “On-track testing of railway rolling stock for the purpose of running dynamics and ride quality measurements as per UIC-518 or EN-14363”.

Work experience certificate from private individual shall not be accepted. Certificate from public listed company/private company/Trusts having annual turnover of Rs. 500 crore and above subject to the same being issued from their Head Office by a person of the company duly enclosing his authorisation by the Management for issuing such credentials.

[The format for experience certificate is placed as *Annexure-II*]

Note:-

The bidder shall submit details of work executed by them in the prescribed format alongwith bid for the service contract to be considered for qualification of work experience criteria clearly indicating the nature/scope

of contract, actual completion cost and actual date of completion for such contract.

[Format prescribed for details of work executed is furnished at **Annexure-I**]

2.6.1.2 Financial Standing: The Bidders will be qualified only if they have minimum financial capabilities as below:-

(i) **T1-Annual Turnover:** The bidder should have an annual financial turnover not less than 1.5 times the advertised bid value during the last three previous financial years and in the current financial year upto the date of opening of the tender. The audited balance sheet reflecting financial turnover certified by chartered accountant with her stamp, signature and membership number shall be considered.

(ii) **T2-Liquidity:** The bidder should have access to or has available liquid assets, lines of credit and other financial means to meet cash flow that is valued at 5% of the estimated bid value net of applicant's commitments for other contracts. The audited balance sheet and/or banking reference certified by chartered accountant with her stamp, signature and membership number shall be submitted by the bidder along with bid.

Banking reference should contain in clear terms the amount that bank will be in a position to lend for this work to the applicants/member of the Joint Venture/Consortium. In case the Net Current Assets (as seen from the balance sheets) are negative, only the banking references will be considered. Otherwise the aggregate of the Net Current Assets and submitted banking references will be considered for working out the Liquidity.

The banking reference should be from a Scheduled bank in India and it should not be more than 3 months old as on date of submission of bids.

In case of JV firms overall liquidity of JV firm shall be assessed by arithmetic sum of liquidity of all members of JV.

2.6.1.3 Other Criteria: Based on the nature of services required, type of contract and other such considerations, the competent authority may include any other criteria as it deems fit in the minimum eligibility criteria for the qualification of bidders. A sample of technical eligibility criteria has been attached as "Bid evaluation-Technical Criteria" for illustrative purposes.

- 7 The tender, when submitted, shall not constitute an agreement and the tenderer shall have no cause of action or claim against the R.D.S.O. for rejection of his offer. The RDSO shall always be at liberty to reject or accept the offer at its own discretion and any such action will not be called into question and the tenderer shall have no claims in that regard against R.D.S.O.

- 8 Acceptance of tender shall be communicated by FAX/ Telex / Telegram /Express Letter/Email, or a formal letter of Acceptance of Tender. When acceptance is communicated by FAX/ Telex/ Telegram/ Express Letters/Email, the formal letter of acceptance will be sent to the Tenderer as soon as possible. But the FAX/ Telex/ Telegram/Email or express letter should be deemed to conclude the contract.
- 9 The successful tenderer shall be required to execute one or more agreements as necessary with President of India acting through Director General/Executive Director (Testing)/ RDSO as the case may be for carrying out the work as per agreed conditions.

BID FORM (First sheet)

Name of Work/Service: Consultancy for Training & Development for UIC-518
standards for Coaching stock

Tender no.: RM2/Changeover to UIC-518/2018/GT

Research, Design and Standards Organisation

To,
The President of India
Acting through the Executive Director/Testing
Research, Design and Standards Organisation
Ministry of Railways.


1. I/We have read the various conditions to the bid attached hereto and agree to abide by the said conditions. I/We also agree to keep this bid open for acceptance for a period of 90 days from the date fixed for opening the same and in default thereof, I/we will be liable for forfeiture of my/our "Earnest Money". I/We offer to do the work for **Research, Design and Standards Organisation**, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within 07 months from the date of issue of letter of acceptance of the Bid.
2. I/we also hereby agree to abide by the Indian Railways General Conditions of Contract for Services, with all correction slips up-to-date and to carry out the work according to the Special conditions of Contract and Specifications of materials and works as laid down by **Research, Design and Standards Organisation** in the annexed Special Conditions/Specifications, Schedule of Rates with all correction slips up-to-date for the present contract.
3. A sum of Rs. 4,79,370/- (Rupees Four Lakh Seventy Nine Thousand Three Hundred and Seventy only) is herewith forwarded as Earnest Money. Full value of the Earnest Money shall stand forfeited without prejudice to any other right or remedies in case my/our Bid is accepted and if:
 - a) I/we do not execute the contract documents within fifteen days after receipt of notice issued by the Railway that such documents are ready; and
 - b) I/we do not commence the work within thirty days after receipt of orders to that effect.
4. I/We am/are a Micro and Small Enterprise registered from (body approved by Ministry of MSME) with registration No. and terminal validity up to for similar service contracts.
5. Until a formal agreement is prepared and executed, acceptance of this Bid shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work/service.

Signature of Bidder/s

Date.....

Address.....

Signature of Tenderer
With Stamp


Signature Of Ex. Director Testing
RDSO/Lucknow

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BID FORM (Second sheet)

Name of Work/Service: Consultancy for Training & Development for UIC-518 standards for Coaching stock

1. **Instructions to bidder(s) and Conditions of bid:** The following documents form part of bid/contract:
 - a) Bid forms-First Sheet and Second Sheet
 - b) Special Conditions/Specifications (enclosed)
 - c) Schedule of approximate quantities (enclosed)
 - d) Standard General conditions of Contract and Standard Specifications for Materials and Works of Indian Railways as amended/corrected upto latest Correction Slips, copies of which can be seen or obtained from the office of Executive Director (Testing)/ RDSO, Lucknow on payment of prescribed charges.
 - e) Schedule of Rates as amended/corrected upto latest Correction Slips, copies of which can be seen or obtained from the office of the Executive Director (Testing)/ RDSO, Lucknow on payment of prescribed charges.
 - f) All general and detailed drawing pertaining to this work which will be issued by the Manager or her representatives (from time to time) with all changes and modifications.
2. **Drawings for the Work:** The drawings for the work can be seen in the office of the Executive Director (Testing)/RDSO at any time during the office hours. The drawings are only for the guidance of Bidder(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Manager or her representative from time to time. The drawings for the wheel disc (Drg No. LW02115), Wheel and Axle (Drg. No. LW02001) and, Bogie Arrangement (Drg No. LW00010) are attached to this bid Document as Annexure No. IV to VI. These drawings can also be downloaded in the TIF format alongwith the tender document.
3. The Bidder(s) shall quote her/their rates as a percentage above or below the Schedule of Rates of **Research, Design and Standards Organisation** except where she/they are required to quote item rates and must tender for all the items shown in the Schedule of approximate quantities attached. The quantities shown in the attached schedule are given as a guide and are approximate only and are subject to variation according to the needs of **Research, Design and Standards Organisation**. RDSO does not guarantee work under each item of the Schedule.
4. Tenders containing erasures and/or alterations of tender document are liable to be rejected. Any correction made by tender(s) in her/their entries must be attested by her/them.
5. The works are required to be completed within a period of 07 months from the date of issue of acceptance letter.

6. Earnest Money:

- a) The bid must be accompanied by a sum of **Rs. 4,79,370/-** as earnest money deposited in cash or in any of the forms as specified, failing which the bid will not be considered. However, registered MSEs in terms of Ministry of MSMEs notification No. 503 are exempted from Earnest Money Deposit.
- b) The bidder(s) shall keep the offer open for a minimum period of 90 days from the date of opening of the bid. It is understood that the bid documents have been sold/issued to the bidder(s) and the bidder(s), is /are permitted to bid in consideration of the stipulation on her/their part that after submitting her/their bid subject to the period being extended further, if required by mutual agreement from time to time, she will not resile from her offer or modify the terms and conditions thereof in a manner not acceptable to the Manager/Chief Manager. Should the bidder fail to observe or comply with the foregoing stipulation, the amount deposited as Earnest money for the due performance of the above stipulation, shall be forfeited to the Railway.
- c) If the bid is accepted, the amount of Earnest Money will be returned to the successful bidder after the submission of the Performance Guarantees as per clause 4.11, for the due and faithful fulfilment of the contract. This amount of EMD shall be forfeited, if the Bidder(s)/Contractor(s) fail to execute the Contract Document within 15 days after receipt of notice issued by Railway that such documents are ready or to commence the work within 30 days (unless otherwise specified) after receipt of the order to that effect.
- d) Earnest Money of the unsuccessful Bidder(s) will, save as here-in-before provided, be returned to the unsuccessful Bidder(s) within 30 days after finalization of the bid/negotiation, but the Railway shall not be responsible for any loss or depreciation that may happen to the Security for the due performance of the stipulation to keep the offer open for the period specified in the bid documents or to the Earnest Money while in their possession nor be liable to pay interest thereon.
7. **Rights of the Railway to Deal with Tender:** The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender and no bidder(s) shall demand any explanation for the cause of rejection of her/their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders.
8. If the bidder(s) deliberately gives/give wrong information in her/their tender or creates/create circumstances for the acceptance of her /their tender, the Railway reserves the right to reject such tender at any stage.
9. If the bidder(s) expire(s) after the submission of her/their tender or after the acceptance of her/their tender, the Railway shall deem such tender cancelled. If a partner of a firm expires after the submission of their tender or after the acceptance of their tender, the Railway shall deem such tender as cancelled, unless the firm retains its character.

10. **Bidder's Credentials:** Bidder shall submit the documents as demanded under Bid Evaluation criteria along with the bid.

11. For Manual Bidding:

This bid is called on two packet system basis.

- a) The technical bid and the financial bid must be kept in separate sealed envelopes duly superscripted "Bid No. RM2/Changeover to UIC-518/2018/GT – Technical bid" and "Bid No. RM2/Changeover to UIC-518/2018/GT – Financial bid".
- b) Both these envelopes must be kept in a sealed cover, superscripted "Bid No. RM2/Changeover to UIC-518/2018/GT " and should be sent by registered post to the address of Executive Director/Testing, Air Brake Lab, Testing Directorate, R.D.S.O., Manak Nagar, Lucknow-226011 so as to reach her/their office not later than 14:00 hours on 22.10.2018 or deposited in the special box (Tender Box) allotted for the purpose and located in RPF post, near TEN office, RDSO, Manak Nagar, Lucknow-226011.
- c) This Special box (Tender Box) will be sealed at 14:30 hours on 22.10.2018. The Bid will be opened at 15:00 hours on the same day.
- d) The Bid papers will not be sold after 12:00 hours on 22.10.2018.
- e) The financial instruments towards the cost of Tender Document and the Earnest Money Deposit shall be kept in the envelope containing the Technical Bid.

12. Non-compliance with any of the conditions set forth therein above is liable to result in the tender being rejected.

13. **Execution of Contract Documents:** The successful bidder(s) shall be required to execute an agreement with the President of India acting through the Executive Director (Testing)/RDSO for carrying out the work according to Standard General Conditions of Contract, Special Conditions/ Specifications annexed to the tender and Specification for work and materials of Railway as amended/corrected up to latest Correction slips, mentioned in tender form (first Sheet).

14. **Partnership Deeds, Power of Attorney Etc.:** The bidder shall clearly specify whether the bid is submitted on her own or on behalf of a partnership concern. If the bid is submitted on behalf of a partnership concern, she should submit the certified copy of partnership deed along with the tender and authorization to sign the tender documents on behalf of partnership firm. If these documents are not enclosed along with tender documents the tender will be treated as having been submitted by individual signing the tender documents. The Railway will not be bound by any power of attorney granted by the bidder or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor.

15. The bidder whether sole proprietor, a limited company or a partnership firm if they want to act through agent or individual partner(s) should submit along with the tender or at a later stage, a power of attorney duly stamped and authenticated by a Notary

Public or by Magistrate in favour of the specific person whether she/they be partner(s) of the firm or any other person specifically authorising her/them to submit the tender, sign the agreement, receive money, witness measurements, sign measurement books, compromise, settle relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.

15.1 The bidder shall clearly specify whether the bid is submitted on her own or on behalf of a Partnership Firm/Joint Venture (JV)/Society etc. The bidder(s) who is/are constituents of firm, Company, Association or Society shall enclose self-attested copies of the Constitution of their concern, Partnership Deed and Power of Attorney along with their bid. Bid Documents in such cases shall be signed by such persons as may be legally competent, Association or Society, as the case may be.

15.2 The bidder shall give full details of the constitution of the Firm/JV/Company/Society etc. and shall also submit following documents (as applicable), in addition to documents mentioned above:

- a) Sole Proprietorship Firm: The bidder shall submit the notarized copy of the affidavit.
- b) Partnership Firm: The bidder shall submit self-attested copies of (i) registered/notarized Partnership Deed and (ii) Power of Attorney duly authorizing one or more of the partners of the firm or any other persons(s) authorized by all the partners to act on behalf of the firm and to submit & sign the Bid, sign the agreement, witness measurements, sign Measurement Books, receive payment, make correspondences, compromise/settle/relinquish any claim(s) preferred by the firm, sign 'No Claim certificate', refer all or any dispute to arbitration and to take similar action respect of all Bids/contract OR said Bid/contract.
- c) Joint Venture (JV): The Bidder shall submit documents as mentioned in Clause 2.4 to GCC.
- d) Company registered under Companies Act-1956: The Bidder shall submit (i) the copies of MOA (Memorandum of Association) and AOA ((Articles of Association) of the Company; and (ii) Power of Attorney duly registered/notarized by the company (backed by the resolution of Board of Directors) in favour of the individual, signing the Bid on behalf of the Company.
- e) Society: The Bidder shall submit (i) self-attested copy of the Certificate of Registration, (ii) Deed of Formation and (iii) Power of Attorney in favour of the Tender signatory.

15.3 If it is mentioned in the Bid that it is being submitted on behalf of/by a Sole Proprietorship Firm/Partnership Firm/Joint Venture/Registered Company etc., the afore-mentioned document/s (as applicable) should be enclosed along with Bid. If it is NOT mentioned in the Bid that it is being submitted on behalf of/by a Sole Proprietorship Firm/Partnership Firs/Joint Venture/registered Company etc., then the Bid shall be treated as having been submitted by the individual who has signed the Bid.

15.4 After opening of the Bid, any document pertaining to the Constitution of the Firm/JV/Society etc. shall neither be asked nor be entertained/considered.

15.5 A Bid from JV/Consortium/Partnership Firm etc. shall be considered only where permissible as per the Bid/Tender condition.

16. Employment/Partnership etc. of Retired Railway Employees:

- a) Should a bidder be a retired Manager of the Gazetted rank or any other Gazetted officer working before her retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in any department of any of the railways owned and administered by the President of India for the time being, or should a bidder being a partnership firm have as one of its partners a retired Manager or retired Gazetted Officer as aforesaid, or should a bidder being an incorporated company have any such retired Manager or retired officer as one of its Directors or should a bidder have in her employment any retired Manager or retired Gazetted Officer as aforesaid, the full information as to the date of retirement of such Manager or Gazetted Officer from the said service and in case where such Manager or Officer had not retired from Government service at least 2 years prior to the date of submission of the tender as to whether permission for tasking such contract, or if the contractor be a partnership firm or an incorporated company, to become a partner or Director as the case may be, or to take the employment under the contractor, has been obtained by the bidder or the Manager or Officer, as the case may be from the President of India or any officer, duly authorised by her in this behalf, shall be clearly stated in writing at the time of submitting the bid. Bids without the information above referred to or a statement to the effect that no such retired Manager or retired Gazetted Officer is so associated with the bidder, as the case may be, shall be rejected.
- b) Should a bidder or contractor being an individual on the list of approved Contractors, have a relative(s) or in the case of partnership firm or company of contractors one or more of her shareholder(s) or a relative(s) of the shareholder(s) employed in gazetted capacity in the any department of the Indian Railway, the authority inviting tenders shall be informed of the fact at the time of submission of tender, failing which the tender may be disqualified/rejected or if such fact subsequently comes to light, the contract may be rescinded in accordance with provision in Clause 7.4 of Standard General Conditions of Contract.

Signature

Designation

Signature of Bidder(s)

Research, Designs & Standards Organisation (RDSO)

Date _____

SPECIAL TERMS & CONDITIONS/SPECIFICATIONS

Name of Work/Service: Consultancy for Training & Development for UIC-518 standards for Coaching stock

The following special conditions of the contract (SCC) shall be applicable in this contract in addition to the GCC-Services. In the event of any contradiction between these SCC and GCC-Services, the SCC shall prevail.

1. The bids invited against this tender shall be under Two-Packet system and the evaluation of the bids shall be carried out using the Quality and Cost Based System (hereinafter referred as QCBS).
2. First the Technical Bids of the bidders shall be opened and evaluated. The financial bids of only those bidders shall be opened who shall attain the minimum qualifying score for their technical bids under the QCBS. The bid with the highest weighted combined score (quality and cost) shall be selected. The relative weightage of the technical and financial bids in this contract shall be in the ratio of 70:30.
3. **Similar** single service contract for the purpose of this tender shall mean **“On-track testing of railway rolling stock for the purpose of running dynamics and ride quality measurements as per UIC-518 or EN-14363”**.
4. For proper reflection of annual financial turnover, the audited balance sheet is to be supported along with ‘Income Statement’ by the bidder.
5. In case of foreign bidders, the banking reference from overseas banks shall be acceptable subject to fulfilment of other conditions as prescribed in this bid document.
6. Boarding, lodging and all other related expenses of the consultant and/or his team during all trainings (including classroom training which shall be held at RDSO, Lucknow and on-site training during the demonstration trial) shall be borne by the consultant. Boarding/lodging and other expenses of trainees only shall be arranged by RDSO as per its own internal guidelines.
7. The tenderer/firm should comply with all the following requirements in addition to other qualifying criteria and conditions as stipulated in this bid document, in order to be considered for award of the contract. Necessary documents should be enclosed by the bidder in support thereof.
 - a. The firm should have valid accreditation from authorized national/international body for Testing, Measurement and Test Equipment etc for Railway Rolling Stock as per relevant UIC and/or EN standards specifically covering UIC-518 in case of UIC standards and EN-14363 in case of EN standards. An Accreditation Certification worded differently but meaning the same in scope will be acceptable for the purpose of this tender.
 - b. The firm should have valid ISO-9001 certification in the field of Testing of Railway Rolling Stock.

- c. The firm should have experience of conducting at least 1 (one) on-track trials of railway rolling stock for ride and safety assessment in the past 5 years according to the UIC-518 and/or EN-14363 standards
 - d. The firm should have experience of consultation or training, in last 5 years including the current year upto the date of opening of bids, provided to minimum one customer for any activity covered under the scope of certification mentioned under clause 'a' above.
 - e. The firm should be a manufacturer or supplier of Instrumented Measuring Wheels (hereinafter referred as IMW) and should have supplied IMWs to atleast 2 customers in the last 5 years including the current financial year upto the date of opening of tender, either on separate specific orders or as part of Rolling Stock Test campaign undertaken for the customers. In case, the firm is neither a supplier nor a manufacturer of IMWs, the bidder must have experience of operating and using the IMWs in Rolling Stock Test campaigns for customers
8. The minimum qualifying score in the technical bid shall be as prescribed in the 'Bid Evaluation -- Technical Criteria' provided in the bid document.
9. Earnest Money shall be submitted in the form of following instruments:
- a. Deposit receipt, Pay Orders or a Crossed Demand Draft in favour of the "Executive Director/ Finance, RDSO, A/C **"Name of the firm"**, Lucknow payable at Lucknow, India executed by State Bank of India or any of the Nationalized or Scheduled Bank in India.

For avoidance of doubt, Scheduled Bank shall mean a bank as defined under Section 2 (e) of the Reserve Bank of India Act 1934.

10. The bidder(s) shall keep the offer open for a minimum period of 90 days from the date of opening of the bid.
11. The successful bidder shall execute the contract document within 30 days after receipt of notice issued by Railways that such documents are ready.
12. There will not be any advance payment to the contractor/ successful bidder under any name including 'Mobilization Advance'.
13. The contractor shall commence the services within 30 days after the receipt by her in writing to this effect from the Manager/Director(RDSO).

14. Payment terms:

- a. The contractor shall raise bills for payment after completion of each item of the contract as mentioned in the schedule of rate (Bid Form - Third Sheet). The payment shall be done for 80% of the total payable amount for that item only, after completion of that specific item of work and after certification of the Manager or her representative to that effect.
 - i. For the supply under item number 7 of the Bid Form (Third Sheet)- 'Schedule of Rates and Aproximate Quantities', payment of 80% of the cost shall be made against shipping documents and balance 20%

payment shall be done after satisfactory installation, commissioning and proving out test.

- b. The total balance amount payable for each item shall be paid to the contractor after successful completion of the contract and on submission of final bill.
- c. The final bill payment shall be made in accordance with clause 5.11 of the GCC- Services and after submission of a Warranty Bank Guarantee of 10 % of the total cost of deliverables i.e Softwares and Measuring wheel sets (as indicated in the Bid Form- Thrid Sheet) towards maintenance of the equipment/software supplied by the contractor under this contract. The Warranty Bank Guarantee should remain valid for the full warranty period of 2 years plus 60 days.
- d. The warranty bank guarantee shall be released after a period of 2 years from the date of completion of contract.
- e. The Warranty Bank Guarantee shall be in any form as applicable for Performance Bank Guarantee mentioned in this contract. No interest shall be payable to the contractor against the Warranty Bank Guarantee as stipulated hereinabove.
- f. The contract price will be normally paid in the currency or currencies in which the price is stated in the successful bid. However, Indian Railways reserves the right to effect payment of equivalent amount in the currency or currencies of the country of origin of the work/goods/services in case the price is stated in other currencies. The equivalent amount will be calculated on the basis of exchange rate prevailing on the date of payment.
- g. Payments shall be made in INR to Indian firms or, in case of foreign firms, through Letter of Credit (LC). In case of payment through LC, all charges including the confirmation charges of LC, levied by foreign banks shall be borne by the contractor.
- h. All taxes, duties etc leviable on this contract and payable to Government of India as per applicable tax laws shall be deducted by the Indian Railways from the Contractor's Bills before making any payment.
- i. The software and hardware to be supplied under this contract are essentially R&D equipment for the use of Research Designs and Standards Organisation (RDSO) of Indian Railways for the purpose of research and scientific studies. Such supplies are eligible for concessional customs duty as applicable at the time of import to India.
- j. Withholding taxes may need to be paid by an overseas firm if it is a successful bidder as per Government of India taxation laws.
- k. Indian Railways shall not be liable to pay any taxes or duties paid by the contractor due to misclassification.
- l. **Statutory Variation Clause:** Any statutory variation in taxes or duties arising in future is liable to be admissible only within the original completion period of the contract subject to production of documentary evidence and related government notifications, further subject to indication of the same in firm's offer and contract. The following shall be applicable:
 - i. Reduction in price of the goods and services being supplied by the contractor to Indian Railways, resulting from any reduction or remission of taxes and duties shall be passed onto Indian Railways by the contractor irrespective of the original completion period of the contract.
 - ii. Any increase in taxes and duties beyond the original completion period of the contract shall be borne by the contractor.

- m. Where the bidder has quoted all-inclusive price without mentioning the taxes at present or in future and has also not quoted with Statutory Variation Clause, the contractor shall have to bear the future variations in all such cases.
- n. Tenderer to give consent in a mandate form (Annexure-III) for receipt of payment through ECS /EFT. Tenderer to provide the details of bank account in line with RBI guidelines for the same. These details will include bank name, branch name and address, account type, bank account number and bank & branch code as appearing on MICR cheque by bank. Tenderer to attach certificate from their bank certifying the correctness of all such information.
- o. In case of non-payment through ECS/EFT or where ECS/EFT facility is not available, payment will be released through cheque. Payment by irrevocable letter of credit can also be made. However, in such cases, the contractor has to give a notice of one month before submitting request for payment.
- p. **Paying Authority:** Payment for all items of the contract will be made by Executive Director/Finance, RDSO, Manak Nagar, Lucknow-226011.

15. **Price Variation Clause** is not applicable to this contract.

16. **Insurance:** Insurance cover for all stores including material, instruments and documents in transit shall be provided for by the contractor.

17. **Penalty:** A penalty of maximum 10 % of the total value of the contract may be imposed in case of unsatisfactory performance of the contractor. The decision of the Manager/Chief Manager regarding performance of the contractor shall be final and binding in this regard.

18. Settlement of disputes including arbitration between the contractor and Indian Railways, if any, and not provided for in the SCC shall be by way of the GCC-Services.

19. **Intellectual Property Rights (IPR):** Full and unconditional rights to any intellectual property arising out of this contract shall vest with Indian Railways who shall be free from all encumbrances to use it in any manner deemed fit. However, a separate Memorandum of Understanding in this regard shall be entered by the bidder with Indian Railways before signing of the contract agreement. This Memorandum of Understanding (MoU) shall inter alia cover conditions for sharing of IPR and confidentiality issues.

20. Price Basis:

- i. Tenderers are required to quote on firm price basis.
- ii. The prices quoted must include all charges e.g. Taxes (withholding Tax, GST etc.), levies, duties, cess, packing, forwarding and delivery charge etc. as applicable.
- iii. The prices should be stated only in one currency and should be either in the currency of the bidder's country or in US dollar or in any other currency widely used in International trade. Tenderers belonging to countries with which Government of India have Rupee Payment Agreements should quote the entire bid price in Indian Rupees.

iv. **Optional Comprehensive AMC:** (Item number 7 in the Bid Form – Third Sheet)

In addition to the tendered work, the bidder must also quote her rate (in the rate sheet specified for this purpose appearing after the Bid Form (Third Sheet) in this document) on firm price basis for Comprehensive Annual Maintenance of the software and hardware equipment of Instrumented Measuring Wheels and related Data Transmission and Recording Equipment for a period of 5 (five) years. The rates should be quoted separately for each of the five years and also cumulative for five years. The rates shall be inclusive of all spares, material and labour costs. All the applicable taxes should be indicated separately. The following conditions apply:

- a) These rates shall **not** be used for the purpose of evaluation of the bid and shall **not** entitle the successful bidder for award of the Annual Maintenance work for the IMW software and equipment supplied under this contract.
- b) Indian Railways reserves the right to place an order for Comprehensive Annual Maintenance of the software and IMW equipment supplied under this contract to the successful bidder at the rates declared by her in her bid. Such an order by Indian Railways shall be binding on the contractor who shall execute the work of Annual Maintenance of the supplied software and IMW equipment to the satisfaction of Indian Railways at the quoted rates which will remain applicable on yearly basis and not subject to any changes except statutory changes in taxes and duties as compared to quoted rates.
- c) The duration of the CAMC shall be for a period of five years from the date of expiry of warranty.
- d) The complete Maintenance work for the IMW (hardware and software) shall need to be completed at site in RDSO, Lucknow without any precondition and all cost for any transportation of material and men and any other logistical arrangement which may become necessary pursuant to such maintenance activity shall be borne by the successful bidder in case the work is awarded to her.
- e) The CAMC shall include calibration of the IMW and related equipment at the periodicity recommended by the designer/manufacturer.
- f) The cost for any replacement of any parts of the IMW and related equipment necessary during the CAMC period shall be borne by the contractor.
- g) The AMC shall include atleast one preventive maintenance schedule and two breakdown maintenance schedule in one year.
- h) A Bank Guarantee equal to 1/4 of annual value (highest of the annual values if the rates offered for various years are different) of AMC subject to a minimum value of 1.25 % of the quoted cost of the Instrumented Measuring Wheel set including concomitant accessories and software will be submitted by the Contractor to Indian Railways 90 days before the expiry of warranty. The BG for the AMC shall have validity of 5 years plus three months. The bidder can submit multiple BG for lesser duration to cover the period of 5 years plus three months ensuring the uninterrupted validity of the AMC BG for 5 years plus three months. The Warranty Bank Guarantee shall be released after submission of this

BG for AMC. The AMC BG will be returned on completion of AMC period. In case, the tenderer fails to provide AMC services successfully; the AMC BG will be forfeited.

- i) The contractor must ensure that in case a failure/breakdown of IMW system is reported by Indian Railways, the contractor's qualified engineer must visit the site for rectification within seven calendar days from the date of such intimation by Indian Railways. Complaints shall be lodged by consignee by fax, e-mail or per bearer at address given by the tenderer. The responsibility to keep the failure reporting address details current will rest with the tenderer.
- j) **Penalty:** The IMW system shall not have a downtime of more than 10% in any year worked out on calendar days basis. This down time shall be calculated excluding the seven days period permitted to contractor for deputing her engineer at site for rectification. In case the downtime is more than 10% of the calendar days in any year, penalty at the rate of 1% reduction in the amount payable for every 1% increase in downtime beyond 10% in that year shall be levied on the bills of the contractor for CAMC for that year.
- k) In case of damage to the IMW system on account of any external factor, viz., floods, earthquake, fire, arson or sabotage, entire cost of spare parts and material necessary for repair of the IMW system shall be borne by the railways. However, the tenderer shall provide services of their engineers free of cost as a part of AMC to restore the IMW system to working order.
- l) Normally annual payment at the yearly rate quoted by the tenderer for the CAMC will be made to the tenderer within 30 days from the end of that year subject to submission of the following documents by the tenderer:
 - Consignee's certificate for work done with calculation of down time and penalty applicable.
 - Bills submitted by the tenderer & accepted by consignee.
 - Attested photocopy of the AMC BG.
- m) The AMC contract can be terminated in following ways:
 - Consignee may terminate the AMC in the event of failure of tenderer to provide the CAMC services as per the AMC agreement in addition to encashing of AMC BG.
- n) Any other conditions from the bidder's side should be explicitly mentioned by the bidder in the rate sheet for CAMC of IMW.

21. Scope of Work:

Important note:

- (1. EN-14363 standard is considered as equivalent to UIC-518 for the purpose of this scope of work and wherever UIC-518 is mentioned it shall mean either UIC-518 or EN-14363. However, the complete work shall be done according to one of these aforementioned two standards.)
- (2. The title of this work makes a reference to Coaching stock only. However, in view of the fact that UIC-518 / EN-14363 standards are equally applicable for all types of

rolling stock with only minor variations between different types of rolling stock, the scope of work in this tender has been extended to cover all types rolling stock in operation or likely to be in operation with Indian Railways and not limited to coaching stock only. This shall ensure that capability building of Indian Railways is done for all types of rolling stock and that the complete UIC-518/EN-14363 standard is covered instead of just the part(s) related to coaching stock.)

The scope of work shall be as under:

(EN-14363 standard is considered as equivalent to UIC-518 for the purpose of this scope of work and wherever UIC-518 is mentioned it shall mean either UIC-518 or EN-14363. However, the complete work shall be done according to one of these aforementioned two standards).

- 1) Training:** The consultant shall train Indian Railways personnel thoroughly in the Statistical Evaluation based Methods for Testing of Rail Vehicles namely the UIC-518 and related standards. This training shall be of the nature of classroom training and also field experiences by organizing mock or actual trials as per the UIC-518 and related standards.
 - a. The training shall be organized for 20 personnel of Indian Railways who shall be nominated by Indian Railways. The nominated personnel will have a basic engineering background.
 - b. The training shall cover
 - i. Classroom training sessions covering all aspects of vehicle trials for assessment of safety and comfort of rail vehicles including but not limited to:
 1. The complete UIC-518 pamphlet (latest version), explanation and derivation of terms, track classification procedure, track selection procedure, data acquisition procedure, pre and post processing of data, data analysis techniques, assessment of results and presentation of results.
 2. The sensors/transducers commonly used for trials and their characteristics, selection of sensors/transducers for acquisition of required parameters' data, the wiring scheme between sensors/transducers and Data Recording or Acquisition equipment (DAQ), precautions to be followed for data acquisition, dealing with noise and unwanted data, etc.
 3. Analysis of track data of Indian Railways network obtained through Track Recording Cars, used by Indian Railways, for classification of track as per the UIC-518 pamphlet and related standards and selection of track for vehicle assessment trials according to UIC-518 pamphlet based on such classification.
 4. Introduction, explanation, data acquisition and analysis methods for comfort assessment in coaching stock as per relevant standard applicable in either UIC system or EN system.

2) Assessment and Classification of Indian Railway track as per UIC-518:

1. The Indian Railways will classify its track, on chord base using its own limits of standard deviation for different track parameters and applying statistical process, to determine track quality levels of QN1, QN2 etc required for on-

- track tests as per UIC-518/EN-14363. Brief details of this procedure are provided for guidance at para 5 below.
2. The Consultant shall assess the suitability of the procedure outlined above and define a 'correction procedure', to make the values of the track alignment comparable to the absolute measurements referenced in UIC-518/EN 14363.
 - a. Indian Railways will, if required, provide to the Consultant track data of required length not exceeding 10,000km for the assessment of suitability and determination of 'correction procedure' as mentioned hereinabove.
 - b. The Consultant shall explain the basis used for determination of the 'correction procedure' to Indian Railways.
 - c. The consultant shall provide a software to Indian Railways which can determine track zones and track sections where trials would need to be conducted to meet the requirements of the UIC-518/EN-14363. The aforementioned software shall incorporate the 'correction procedure' referenced above, as necessary.
 3. The consultant shall train the Indian Railway personnel (*about 10 personnel with basic engineering background*) in use of the aforementioned software for determination and identification of track zones and track sections for trials. The training should enable the trained personnel of Indian Railways to independently analyse, assess and identify the Indian Railway track zones and sections for trials in accordance with the UIC-518 pamphlet requirements, upon completion of such training, without any additional inputs or assistance from the consultant at a later stage.
 4. The aforementioned software, with license for a minimum of 5 standalone machines, shall become the property of Indian Railways after completion of aforementioned training, without any restrictions on its use by Indian Railways.
 5. The procedure used by Indian Railways to classify the track using chord base is outlined below:
 - a. Track data of IR Track is recorded by inertial principle of track geometry measurement at a sampling interval of 0.25/0.30 metre with a band pass filter of 3 to 70 metre.
 - b. After acquisition of data on absolute profile, the data is processed to derive the track geometry data on two chords. These chords have been defined as short and long chords.
 - c. The Short Chord for Unevenness (Vertical Profile) and Alignment (Lateral Profile) has been fixed as 9.0 metre. The Long Chord for Unevenness (Vertical Profile) and Alignment (Lateral profile) has been fixed as 18.0 and 15.0 metres respectively.
 - d. The QN1, QN2 and QN3 limits on both long and short chord in SD and Peak form has been fixed on maintainability criteria. The QN1 limits refers to the track, which requires regularly planned maintenance and QN2 limit refers to the track which requires urgent or short term maintenance. QN3 values have been fixed as 1.3 times of QN2 values.
 - e. QN1 limits has been fixed corresponding to the 50% value on CFD of Unevenness and alignment of Track and QN2 limits has been fixed corresponding to 90% value of CFD of Unevenness and Alignment of Track.
 - f. The values arrived on maintainability has been verified w.r.t the values arrived at on ride criteria. The QN1 values have been checked with values

corresponding to preferred values of ride and QN2 values have been checked w.r.t the values corresponding to Limiting values of Ride.

- g. The QN1, QN2 and QN3 values have been specified in following three speed bands:

- I. Upto 105 KMPH
- II. > 105 < 130 KMPH
- III. > 130 < 160 KMPH

- h. The SD values specified in above 03 speed bands on short and long chord are given in the table below:

QN1 Tolerances

S.N	Parameter	Speed Band of < 105 Km/h	Speed Band of > 105 < 130 km/h	Speed Band of > 130 < 160 km/h
1.	UN-9.0 m	5.0 mm	4.0 mm	2.9 mm
2.	UN-18.0 m		5.5 mm	4.3 mm
3.	AL-9.0 m	3.4 mm	2.5 mm	2.0 mm
4.	AL-15.0 m		4.0 mm	2.7 mm

QN2 Tolerances

S.N	Parameter	Speed Band of < 105 Km/h	Speed Band of > 105 < 130 km/h	Speed Band of > 130 < 160 km/h
1.	UN-9.0 m	6.7 mm	6.0 mm	4.4 mm
2.	UN-18.0 m		7.8 mm	6.6 mm
3.	AL-9.0 m	4.1 mm	3.9 mm	3.6 mm
4.	AL-15.0 m		6.8 mm	2.0 mm

Note: QN3 tolerances are $1.3 * QN2$

ON IR QN1 Tolerances has been defined as planned maintenance

ON IR QN2 Tolerances has been defined as Intermediate maintenance

ON IR QN3 Tolerances has been defined as Urgent/Immediate Maintenance

- i. Further details/clarifications as required by the Consultant during the project implementation stage would be provided by Indian Railways (Track Machines and Monitoring Directorate of RDSO).

3) Data Analyses and Reporting Software: The consultant shall develop/provide a computer software package for pre and post processing of acquired data for analysis and assessment of data in line with the requirements of UIC-518 Pamphlet.

- a. The software should also be capable of printing final assessment reports with minimal user based inputs in the format generally followed for presentation of reports for trials as per the UIC-518 pamphlet.
- b. The consultant shall train Indian Railway personnel (*about 15 personnel with basic engineering background*) in use of the data analysis and reporting software package mentioned above as well as precautions, limitations and intricacies related to its use so that the trained Indian Railway personnel are able to operate and use the software without any further assistance from the consultant.

- c. The software for data analysis and reporting, mentioned above, shall become a property of Indian Railways without any restrictions on its use and installation on any number of computers/laptops and other suitable machines.
- 4) Limit values for vehicle assessment parameters for Indian Railway rolling stock:** The consultant shall assess the broad design features of commonly used rolling stock of Indian Railway and the raw data of Oscillation Trials of these representative rolling stock as per the UIC-518 method. She will make use of these details to derive the qualifying limits for various vehicle ride and safety assessment parameters which are required as per UIC-518 pamphlet, suitable for Indian Railway BG (broad gauge) track conditions. These details and any data so provided shall be treated as confidential in nature and are not to be used for any purpose (other than for the compliance of the scope of work in this tender) without written authorization from RDSO.
- a. The representative rolling stock (Locomotives, Coaches and Wagons) for this purpose shall be decided jointly between the Consultant and RDSO.
- b. Indian Railways will carry out the trials of the selected representative rolling stock after the complete process has been explained by the Consultant and relevant training provided to the IR personnel.
- i. These trials will be according to the procedure outlined in UIC-518 and as explained by the Consultant. However, it must be noted by the consultant that Instrumented Measuring Wheel may not be available for such rolling stock of Indian Railways and the relevant force data at axle box level will be provided to the extent feasible during the said Oscillation Trials.
- ii. These trials will be done to generate relevant data for the use of Consultant for the specific purpose outlined above and therefore will be limited in scope as guided by the Consultant.
- iii. Efforts will be made to complete trials of the selected representative rolling stock in 3 months period after which the acquired data will be provided to the Consultant.
- c. The consultant shall explain in detail the methodology used and the assessment results obtained for arriving at the limits for various parameters, of such selected representative rolling stock of Indian Railways as mentioned above, for compliance with the UIC-518 pamphlet.
- 5) Demonstration using mock/actual trials on Indian Railway track:** The consultant shall conduct field trials as per the trial protocol manual referred above for one type of coaching rolling stock of Indian Railway in India on BG track and present report of the trials to Indian Railways.
- a. The trials shall be conducted in India on BG track of Indian Railways to demonstrate the suitability of the trial protocol developed by the consultants applied to Indian Railways' rolling stock and to train the Indian Railways personnel in conducting trials.
- b. Trials shall be conducted for one coach (namely a variant of LHB coach used by Indian Railways) selected by Indian Railways for this purpose.
- c. The consultant shall involve and guide the Indian Railway personnel for these trials with the express intent of training them on conducting actual trials according to the UIC-518 pamphlet using the trial protocol manual provided by the consultant.
- d. The consultant shall select the track section(s), in consultation with RDSO, where the trials are to be done out of possible alternatives provided by Indian Railways. All efforts shall be made by the consultant that the track stretches selected for trial are, in so far as possible, kept very close together so that

movement of the test formation is kept to bare minimum over Indian Railway open-lines (commercial lines) without any compromise on the trial protocol and the requirements of the UIC-518 pamphlet.

- e. The trained Indian Railway personnel shall be fully involved by the consultant at every stage of the trial including but not limited to, track selection, selection of tests on rolling stock, instrumentation scheme, data acquisition, pre and post processing of data, analysis of data, assessment of results and, presentation of report.
- f. The administrative and operational expenses involved in these trials such as obtaining required approvals, rolling stock availability for trials, crew, path, fuel, haulage, motive power, inspection and maintenance facilities for test rolling stock etcetera shall be borne by Indian Railways. Trained personnel of Indian Railways shall assist and carry out instrumentation, data acquisition and analysis of the test rolling stock under the supervision and guidance of the consultant as part of their training. All other expenses related to these trials, not expressly admitted by Indian Railways as mentioned above, including all expenses related to supply of Instrumented Measuring Wheels with its Data Recording/Acquisition Equipment and, consultant's Manpower including their transportation, lodging etcetera shall remain the responsibility of the consultant under the scope of this contract.
- g. The consultant shall be guided by the following additional stipulations in regard to conduct of these trials over Indian Railways track:
 - i. The consultant, in consultation with RDSO, shall make out a detailed test campaign document indicating, inter alia, all the selected track locations where trial data is to be recorded, the required speed for each trial run over each selected location, the duration for which Indian Railways' open line (commercial lines) track will likely remain occupied during each run, the number of trial runs required over each selected location, number of days required for on-track trial (in calendar days with breakup of work days and rest days), the trial train configuration, parameters to be recorded, instrumentation profile and locations.
 - ii. Indian Railways shall make available the selected track for trial purposes at the dates and times convenient to it so that disruption to normal traffic is bare minimum. The dates will be finalized in consultation with the consultant so as to enable him for deputing his technical and other personnel for physical conduct of trial accordingly.
 - iii. During any day identified for trial, the permission for movement of trial formation for trials will be provided by Indian Railway at its convenience and the consultant must be ready to conduct the trial at such times as may be provided for this purpose. Efforts will be made by Indian Railways to provide the trial path (permission for movement of trial formation for trial data recording) during the daylight hours i.e. 0600-1800 hours IST.
 - iv. In case of any unforeseen event such as heavy rains, dense fog, traffic congestion, OHE disruption or other maintenance works etc, the date and time previously provided by Indian Railways for trial may be rescheduled. The revised dates and time will be communicated to the consultant tenderer by Indian Railways as soon as possible in such circumstances and the successful tenderer shall abide by the rescheduled dates and times so advised.

- v. The consultant shall provide required number of suitable Instrumented Measuring Wheels (IMWs), related DAQ system & data acquisition software, various sensors and their DAQ with acquisition and recording software, cables, connectors etc as necessary for the said Mock/Demonstration trials. This means, inter alia that the complete instrumentation and data acquisition set-up (hardware and software) shall be provided by the Consultant except power supply for the said set-up which shall be arranged by Indian Railways. The complete set-up including the sensors, cables, connectors, DAQs, IMWs and acquisition/analysis software etc shall become the property of RDSO after completion of the trials.
- vi. Before the aforementioned set-up is handed over to RDSO by the consultant, Indian Railways shall make arrangements for safety of the sensors/transducers, data acquisition system and other equipment provided by the consultant for the purpose of trials and fitted on the test formation. However, in case of any loss or accidental damage of such sensors and other equipment due to theft, mishandling etcetera, Indian Railways shall not be under any liability to pay compensation to the consultant on this account and the consultant shall have to make good the deficiency at his own cost.
- vii. The consultant shall observe all instructions related to safety and operations/trial runs as communicated by Indian Railways through its authorized personnel at all times.

6) Supply of Instrumented Measuring Wheels with Data Recording System: The consultant shall supply **one set** of Instrumented Measuring Wheels **system** for LHB coach used by Indian Railways, for the trials of Indian Railway rolling stock on Indian Railway track.

- a. The IMW system (along with its Data recording equipment and software for data acquisition and analysis) shall be supplied to Indian Railways and used for the aforementioned mock/demonstration trials by the consultant. After completion of the trials, the complete IMW system shall become the property of Indian Railways with no restriction on its use in any manner whatsoever.
- b. The warranty and any other concessions associated with the IMW system supplied by the consultant shall also devolve to Indian Railways consequent upon the transfer of IMW system to Indian Railways.
- c. The consultant shall arrange for specific training to Indian Railway personnel, involved in the aforementioned trials, in the operation and maintenance of the IMW system supplied by the consultant.
- d. Indian Railways will supply two basic wheelsets (two discs mounted on one axle is one wheelset) to the consultant for necessary instrumentation and other activities for making IMW sets. The wheelset supply shall be ex-India from RDSO Lucknow and the consultant shall deliver the completed IMW sets back at RDSO Lucknow. The complete activity of transportation of the wheel sets ex-RDSO Lucknow and back along with related costs etc shall fall under the scope of the consultant. Indian Railways will provide necessary documentation to the consultant for the purpose of transportation, customs clearance etc.

7) Trial Protocol Manual: The consultant shall develop trial protocol for Indian Railway rolling stock to enable their trial on track in accordance with the stipulations of the UIC-518 stipulations for different designs and operating conditions encountered on Indian Railways.

- a. The trial protocol shall be in a type-written report format (Trial Protocol Manual) and shall cover the complete process of rolling stock testing for

dynamic behaviour assessment that is, identification of tests to be conducted, identification of parameters to be assessed, classification and selection of track for trials, selection of sensors and transducers and their data recording/acquisition system, pre and post processing of data including different filters at acquisition and processing stages, application of different rolling stock parameters and their limit values, data processing, assessment and results, reporting of results etcetera, except administrative requirements such as nominating a team for trials, obtaining statutory permissions for trials etc.

- b. The trial protocol should cover various types of rolling stock operated on Indian Railways under broad categorization as in the UIC-518 pamphlet and the methodologies to be followed for each type of rolling stock.
- c. The trial protocol manual shall be self-contained to enable complete conduct, assessment and reporting of any rolling stock trial on Indian Railways by trained Indian Railway personnel with minimal reliance on referring extraneous documents for this purpose.
- d. The consultant shall supply the trial protocol manual in soft copy (PDF format) ready to print and also in hard bound printed copies (100 numbers) to RDSO. Indian Railways shall have exclusive rights over the trial protocol manual developed and supplied by the consultant without any restrictions on its use in any way whatsoever.

8) Important Clarifications regarding Scope of Work: The following points may be noted with regard to the scope of work. These clarifications are for the general guidance of the bidders for successful completion of work . However, additional instructions may be given by the Manager to the successful bidder during the execution of contract for its successful completion:

- a. The services under the contract can commence immediately after the submission of valid Performance Guarantee.
- b. The different items or work/activities can be carried out in parallel to the extent feasible. However, the trainings shall need to be done separately in a sequential manner and without any intermediate breaks if felt necessary by the bidder.
- c. There is no specific requirement for trainers in terms of additional degree or certification. However, it is expected that adequately qualified and experienced trainers able to communicate fluently in English shall be deputed by the successful bidder to maintain the desired quality of training in conformity with the ultimate objective of this tendered work. It is permissible for freelance trainers to be engaged by the successful bidder for training the IR personnel.
- d. Indian Railways will provide an adequately equipped classroom (with LCD projector and internet connectivity) for theoretical trainings without any charge. A separate office or cabin for trainers cannot be provided.
- e. For conducting practical trainings by means of Demonstration Trials, logistical support such as arranging track permissions, crew for working trial train, assembly of IMW under the test LHB coach etc will be arranged by Indian Railways.
- f. Total working hours per training day is expected to be about 8 ½ hours. After factoring lunch and other breaks, a minimum training period of 6 hours per training day is expected.
- g. The bidder may decide the preferred split between the theoretical and practical training content considering the overall objective of the training and consultancy as brought out in the Tender Document.

- h. The approximate duration for each training module as specified in the tender conditions should normally be adhered. The training period in each module may be extended only by maximum 2 days if considered very essential. However, this will not result in any increase in the payment due to the contractor.
- i. There is no restriction in breaking each training module into sub-modules as per the experience and requirement felt by the contractor.
- j. The trainees will have basic engineering background. The Engineering disciplines covered are Mechanical, Electrical and Civil. Overall the trainee batches will be a mix of these three engineering disciplines.
- k. A training certificate may be presented to the participants by the bidder after successful training.
- l. Post-training follow up support by the contractor through email/video-conferencing etc is not actively sought since the aim of knowledge transfer is expected to be achieved during the training itself.
- m. During the warranty maintenance period the issues and clarifications relating to software and equipment supplied will have to be addressed by the contractor including thorough email/tele-conferencing/video-conferencing etc as necessary.
- n. The EN-14363 norms of 2005 which deal with track quality in terms of QNx may be referred for the purpose of this tender. Inclusion of EN-13848 in the training module of track parameters may however be done by the successful bidder at no additional cost if felt essential for proper effectiveness of training.

SCHEDULE OF RATES AND APPROXIMATE QUANTITIES

Name of Work/Service: Consultancy for Training & Development for UIC-518 standards for Coaching stock

Rates should be quoted separately for each item

Item No.	Description of Item of Work/Service	Approximate Quantity	Unit	Basic rate per unit in Figures and words	Taxes and rate of taxation, if any	Total Rates per unit in Figures and Words	Amount with currency
A	B	C	D	E	F	G = E + F	H = D * G
1	Training on UIC-518/EN-14363 standard requirement	Approx. 20 persons for minimum 10 days	01				
2	Track Assessment and classification of IR Track and software as per requirement of UIC-518/EN-14363 & Training	Approx. 1000Kilometer Software with license for 05 machines; Training for 10 persons for minimum 5 days	01 01 01				
3	Determination of applicable limit values for IR rolling stock as per requirement of UIC-518/EN-14363.	Different rolling stock types (Locomotive, Coach, Wagon etc.)	01				
4	Software for processing of data according to UIC-518/EN-14363.	Without license restrictions for number of machines; Training of about 15 persons for minimum 05 days.	01 01				
5	Manual of Trial protocol as per requirements of UIC-518/EN-14363.	100 hard bound copies plus soft copy in PDF Format.	01				
6	Demonstration of the trial process by mock testing as per requirement of UIC-518/EN-14363.	One trial with LHB coach as test vehicle.	01				

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7	Supply, Installation and Commissioning of One measuring wheelset system with 02 wheelsets as per requirement of UIC-518/EN-14363.	01 measuring wheel set (means 02 axles with wheels) for LHB Coach	01				
Total amount (in figures & words)							

The quantities shown in above Schedule are approximate and are as a guide to give the Bidder(s) an idea of quantum of work involved. The Railway reserves the right to increase/ decrease and/or delete or include any of the quantities given above and no extra rate will be allowed on this account.
I/We undertake to do the work at _____% ~~above/below the Schedule of Rates of the Railway~~ at the rates quoted above for each item (wherever percentage rates are not invited kindly see note given below)

Dated: _____

Signature of the Bidder(s)

Note: Columns A to D shall be filled by the office of the Authority inviting Bid. Columns E & F shall be filled by the Bidder(s) only when percentage Bids are not invited.

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RATE SHEET FOR COMPREHENSIVE ANNUAL MAINTENANCE SERVICE FOR INSTRUMENTED MEASURING WHEEL SET

Name of Work/Service: **Consultancy for Training & Development for UIC-518 standards for Coaching stock.**

Sr. No.	Description	Rate for CAMC for every year			Cumulative Cost of CAMC for 5 years (in figures & words) with Currency
		Year	Basic Rate	Taxes and rate of taxation (GST etc)	
1	Annual maintenance service charges for maintaining 01 measuring wheel set (means 02 axles with wheels) for LHB Coach comprising with i.e. Measuring wheel, telemetry system, DAQ system etc.	Year 1			
		Year 2			
		Year 3			
		Year 4			
		Year 5			

Notes:

1. The rates quoted should be inclusive of all taxes and discount (if any). The offers wherever rates are not quoted in this manner are liable to be summarily rejected.
2. Rate to be quoted for above works should be in figures and words. In case of any difference in the rates quoted in figures and words the rates quoted in words only will be considered as correct.

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Bid Evaluation- Technical Criteria

The following criteria shall be applied for evaluation of technical bids of the Bidder(s). A minimum of 30 marks is essential for opening of Price bid.

Sl. No.	Weightage	Technical Criteria	Documentation required	Scoring method
1.	25%	<p>Details of pervious work done The bidder(s) shall submit documents related to completed/on-going SIMILAR service contracts during last three financial years and the current financial years along with the details of payments received. Such previous experience shall be classified as follows: Payment received:</p> <p style="margin-left: 40px;">a. More than or equal to 80% b. More than or equal to 60% c. More than or equal to 45%</p> <p>(Bidder(s) without a single work of similar nature or payment received less than 35% of the advertised value of the bid are not eligible)</p>	<p>Certificate from client firm(s) authorizing payment received, contract-wise for completed/or-going similar service contracts.</p>	<p>Scoring: Maximum marks under this head is 100.</p> <p>a. 100 marks if the bidder has completed received payment as under: From 1 project, payment more than or equal to 80% of the advertised bid value Or from 2 projects, payment more than or equal to 60% in each project of the advertised bid value Or from 3 or more projects, payment more than or equal to 45% in each project, of the advertised bid value</p> <p>b. 60 marks if the bidder has completed or received payment as under: From 1 project, payment more than or equal to 60% of the advertised bid value Or from 2 projects, payment more than or equal to 45% in each project of the advertised bid value</p> <p>c. 20 marks if the bidder has completed or received payment as under: From 1 project, payment more than or equal to 45% of the advertised bid value d. 10 marks if the bidder has completed or received payment as under: From 1 project, payment more than or equal to 35% of the advertised bid value</p>
2.	10%	<p>Details of Turnover Annual turn-over in any of the last three financial years and current</p>	<p>Audited balance sheets and Income</p>	<p>Scoring: Maximum marks under this head is 100.</p> <p>a. 100 marks if the bidder has annual turnover more than 25 times the advertised value of the work.</p>

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		financial year up to the date of opening of bid.	statements certified by CA	<p>b. 70 marks if the bidder has annual turnover more than or equal to 10 to 25 times the advertised value of the work.</p> <p>c. 50 marks if the bidder has annual turnover more than or equal to 5 to 10 times the advertised value of the work.</p> <p>d. 30 marks if the bidder has annual turnover more than or equal to 1.5 to 5 times the advertised value of the work.</p>
3.	35%	<p>(Bidder(s) whose annual turn-over is less than 1.5 times the advertised bid value of the work are not eligible)</p> <p>Experience of conducting on-track trials of Railway Rolling Stocks as per UIC-518 and / or EN-14363 standard for customers in last five financial years and current financial year up to the date of opening of tender.</p> <p>This shall be assessed on the basis of number of on-track trials conducted for customers in past 5 years.</p>	<p>Experience or performance certificate from the client firm(s) clearly bringing out the type of trial done, the test standard used and, period of trial.</p>	<p>Scoring: Maximum marks under this head is 100.</p> <p>a. 100 marks if the bidder has conducted five or more on-track trials.</p> <p>b. 80 marks if the bidder has conducted four on-track trials.</p> <p>c. 60 marks if the bidder has conducted three on-track trials.</p> <p>d. 40 marks if the bidder has conducted two on-track trials.</p> <p>e. 20 marks if the bidder has conducted one on-track trial.</p>
4.	20%	<p>Experience of consultancy or training of customers in last five financial years and current financial year up to the date of opening of tender, for one or more activities covered under the scope of accreditation available with the bidder for Testing, Measurement and Testing Equipment.</p> <p>This shall be assessed on the basis of number of such completed consultancies or trainings.</p>	<p>Experience or performance certificate from the client firm(s) clearly bringing out the nature of training / consultancy carried out and the period of such training/ consultancy.</p>	<p>Scoring: Maximum marks under this head is 100.</p> <p>a. 100 marks if the bidder has conducted five or more training/consultancies.</p> <p>b. 80 marks if the bidder has conducted four training/consultancies.</p> <p>c. 60 marks if the bidder has conducted three training/consultancies.</p> <p>d. 40 marks if the bidder has conducted two training/consultancies.</p> <p>e. 20 marks if the bidder has conducted one training/consultancy.</p>

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5.	10%	<p>Supply of Instrumented Measuring Wheels on separate supply orders or as part of Testing campaign undertaken for customers in last five financial years and current financial year up to the date of opening of tender.</p> <p>This shall be assessed on the basis of number of IMW sets supplied.</p>	<p>Experience or performance certificate from the client firm(s) clearly bringing out the scope of supply of IMW.</p>	<p>Scoring: Maximum marks under this head is 100.</p> <p>a. 100 marks if the bidder has supplied five or more sets of IMW's to customers.</p> <p>b. 80 marks if the bidder has supplied four sets of IMW's to customers.</p> <p>c. 60 marks if the bidder has supplied three sets of IMW's to customers.</p> <p>d. 40 marks if the bidder has supplied two sets of IMW's to customers.</p> <p>e. 20 marks if the bidder has supplied one set of IMW's to customers.</p> <p>Set of IMW means wheels fitted on minimum two axles for any-one type rolling stock.</p>
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NOTE:

1. The total marks received by a bidder under each head above shall be multiplied with the percentage weightage indicated against each and then added up to determine total marks for that bidder.
2. The minimum qualifying marks in the technical evaluation bid of any bidder after considering weightage shall be 30 out of maximum 100.

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Illustration sheet for Evaluation of Bids

Bids will be evaluated by the method of Quality and Cost Based System (QCBS) mentioned in para 2.6 (C) of GCC-Services. The bid document specifies the minimum qualifying score for the quality of technical bid and also the relative weightages to be given for quality and cost at the ratio of 70:30 in this contract.

- Evaluation of Technical Bid accordingly sheet name "Bid Evaluation-Technical Criteria" attached with the Tender document.

S. No	Name of Bidders	Technical Criteria	weightage % (S)	Maximum Score	Obtained Technical Score by the bidder (Q)	Quality score of the bidder Quality score = $(S \times Q)/100$
1.	M/s "A"	Details of previous work done as mentioned in "Bid Evaluation-Technical Criteria"	25%	100	i.e. 60	15
		Detail of turnover	10%	100	i.e. 100	10
		Experience of conducting on-track trials	35%	100	i.e. 80	28
		Experience of consultancy or Training of customers	20%	100	i.e. 40	8
		Supply of Instrumented measuring wheels	10%	100	i.e. 100	10
		Total Score obtained by the bidder "A"				71
2.	M/s "B"	Details of previous work done as mentioned in "Bid Evaluation-Technical Criteria"	25%	100	i.e. 70	17.5
		Detail of turnover	10%	100	i.e. 100	10
		Experience of conducting on-track trials	35%	100	i.e. 60	21
		Experience of consultancy or Training of customers	20%	100	i.e. 50	10
		Supply of Instrumented measuring wheels	10%	100	i.e. 80	8
		Total Score obtained by the bidder "B"				66.5

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S. No	Name of Bidders	Technical Criteria	weightage % (S)	Maximum Score	Obtained Technical Score by the bidder (Q)	Quality score of the bidder Quality score = $(S \times Q)/100$
3.	M/s "C"	Details of previous work done as mentioned in "Bid Evaluation-Technical Criteria"	25%	100	i.e. 90	22.5
		Detail of turnover	10%	100	i.e. 100	10
		Experience of conducting on-track trials	35%	100	i.e. 80	28
		Experience of consultancy or Training of customers	20%	100	i.e. 70	14
		Supply of Instrumented measuring wheels	10%	100	i.e. 90	9
		Total Score obtained by the bidder "C"				83.5

S is Score given out of 100 for Technical criteria

Q is Quality weighting (%) – as decided by the procuring entity

The weightage of the Technical Bid is 70% in the overall evaluation as mentioned in special terms and conditions of bid documents.
Technical (Quality) Weightage

$$Q = (\text{obtained score} \times \text{Decided ratio of technical})/100$$

$$M/s "A" = (71 \times 70)/100 = 49.7$$

$$M/s "B" = (66.5 \times 70)/100 = 46.55$$

$$M/s "C" = (83.5 \times 70)/100 = 58.45$$

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Evaluation of Financial Bid: According to QCBS method, the weightage of Financial Bid is 30%.

Bid Evaluation- Financial Criteria

The following criteria shall be applied for evaluation of Financial Bid of the Bidder(s).

- Total price quoted by the bidder inclusive of all taxes shall be arrived at as per her bid.
- The financial bid evaluation shall have two parts for marking/evaluation. Part 1 will be out of 80 marks and part 2 will be out of 20 marks. Thus the total marking will be out of 100 marks for Financial Bid.
- The marks obtained by each bidder in part 1 and 2 will be added to arrive at total marks out of 100 in Financial Bid evaluation.

Sl. No	Financial Criteria	Documentation Required	Scoring method
1.	In part 1, the lowest bid shall be given 80 marks. The other bids shall be given proportionately lower marks according to their total bid value.	Filled up "BID FORM (Third Sheet)"	Scoring: Maximum marks under this head is 80.
2.	In part 2, the marking will be out of 20 marks: With more marks being given to bids which are more below the estimated value of the tender.	Schedule of Rates and Approximate Quantities	Scoring: Maximum marks under this head is 20. <ul style="list-style-type: none"> • 0 marks if bid value is more than estimated value • 5 marks if bid value is 95% up to 100% of the estimated value. • 10 marks if bid value is 90% up to less than 95% of the estimated value. • 15 marks if bid value is 80% up to less than 90% of the estimated value. • 20 marks if bid value is less than 80% of the estimated value.

Note: In case the rates are quoted in currency other than Indian Rupee, the amount in Rupees for the purpose of evaluation shall be arrived at by considering the B.C. (Base currency) selling exchange rate established by the State Bank of India prevailing as on the date of Tender opening.

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Illustration sheet for Evaluation of Financial Bid

- Evaluation of Financial Bid accordingly sheet name "Bid Evaluation-Financial Criteria" attached with the Tender document i.e. the estimated cost of bid is 20 crore

S.No	Name of Bidders	Part 1 Max marks 80	Part 2 Max. marks 20	Max marks is 100 (Part 1 + Part 2)
1.	M/s "A"	80 mark obtained L1 as per lowest quoted rate i.e. 18 crore	Bid value as percentage of estimate value = 90% Therefore, marks = 10	80 + 10 = 90
2.	M/s "B"	i.e. $(18/19.5)*80 = 73.8$ L2 as per lowest quoted rate i.e. 19.5 crore	Bid value as percentage of estimate value = 97.5% Therefore, marks = 5	73.8 + 5 = 78.8
3.	M/s "C"	i.e. $(18/21)*80 = 68.5$ L3 as per lowest quoted rate i.e. 21 crore	Bid value as percentage of estimate value = 110% Therefore, marks = 0	68.5 + 0 = 68.5

According to QCBS method, the weightage of Financial Bid is maximum mark of 30 as per decided ratio of evaluation of bid
Cost score weighting $C = (\text{Mark obtained in financial bid} \times \text{Decided weightage of financial bid i.e. } 30) / 100$

M/s A has obtained = $(90/100)*30 = 27$

M/s B has obtained = $(78.8/100)*30 = 23.64$

M/s C has obtained = $(68.5/100)*30 = 20.55$

Name of Firms	Technical Weightage obtained (Q) i.e. 70 maximum (Total mark obtained x 0.7)	Financial Weightage obtained (C) i.e. 30 maximum (Total mark obtained x 0.3)	Total Score (Q + C)
M/s A	49.7	27	76.7
M/s B	46.55	23.64	70.19
M/s C	58.45	20.55	79

Hence to above, which bidder will be obtained Max. Weightage in both i.e. Technical and Financial bid that should be the successful bidder.

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Format for Details of the Previous Works/Services by the Bidder

Sl No	Name of the Work	Brief of Work (Indicate activities covered under the scope, especially those which relate to technical evaluation of your bid)	Agreement Number and Date	Details of Firm/Client for whom work was done	Experience certificate from Firm/Client enclosed? (Yes/No)	Value of Work per Agreement indicating currency unit (in figure and words)	Due date of completion (in case of continuing work)/ Actual completion date	Amount received against the work from Firm/Client indicating currency unit (in figure and words)	Financial Year* in which the payment was received from Firm/Client
1.									
2.									
3.									
4.									
5.									

*Financial Year is taken from 1st April of a year upto 31st March of succeeding Year e.g. the period of 1st April 2015 to 31st March 2016 is taken as Financial Year 2015-2016.

In case payment for a single work has been received in different financial years, indicate payment received against each financial year for that work.

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Signature of Bidder

On the Issuing Firm/Client's Official Letterhead

Reference No: _____

Date of Issue: _____

Work Experience Certificate

It is certified that M/s bidder/executing agency's name having their offices at _____ have completed/in process of completing* the following work/services for Certificate Issuing Firm's Name and address. *(Strike out whichever is not applicable)

SI No	Item	Details
1.	Name of Work/Service	
2.	Agreement Number with date and, name & address of agency to whom the work awarded	
3.	Brief scope of the work/service.	
4.	Agreement Value indicating currency unit (in words and figures)	
5.	Due date of completion as per agreement	
6.	Number of extensions granted	
7.	Actual Date of completion of work/service (if completed)	
8.	Total Value of Payment released to the executing agency against the agreement indicating currency unit (in words and figures)	
9.	Remarks about quality of performance of the executing agency under the agreement	

It is also certified that I, Mr/Mrs/Ms _____ working as _____ in the Issuing Firm's Name, am authorized to issue this certificate to bidder/executing agency's name on behalf of Issuing Firm's name having offices located at address of issuing firm.

**Affix Office Seal/
Stamp here**

(Signature)
Full Name
Designation
Contact details

MANDATE FORM

Electronic Clearing Service (Credit Clearing)/ Real Time Gross Settlement (RTGS) facility
for receiving payments.

A. Details of Account Holder:-

Name of Account Holder	
Complete Contact Address	
Telephone Number/FAX/E-mail	

B. Bank Account Details:-

Bank Name	
Branch Name with complete address, Telephone no. and E-mail	
Whether the Branch is computerized?	
Whether the branch is RTGS enabled? If yes then what is the Branch's IFSC Code	
Is the Branch also NEFT enabled?	
Type of Bank Account (SB/Current/Cash credit)	
Complete Bank Account No. (Latest)	
MICR Code of Bank	

Date of effect:-

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information I would not hold the use Institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the Scheme.

Signature of Customer

Date

Certified that the particulars furnished above are correct as per our records.

(Bank's Stamp)

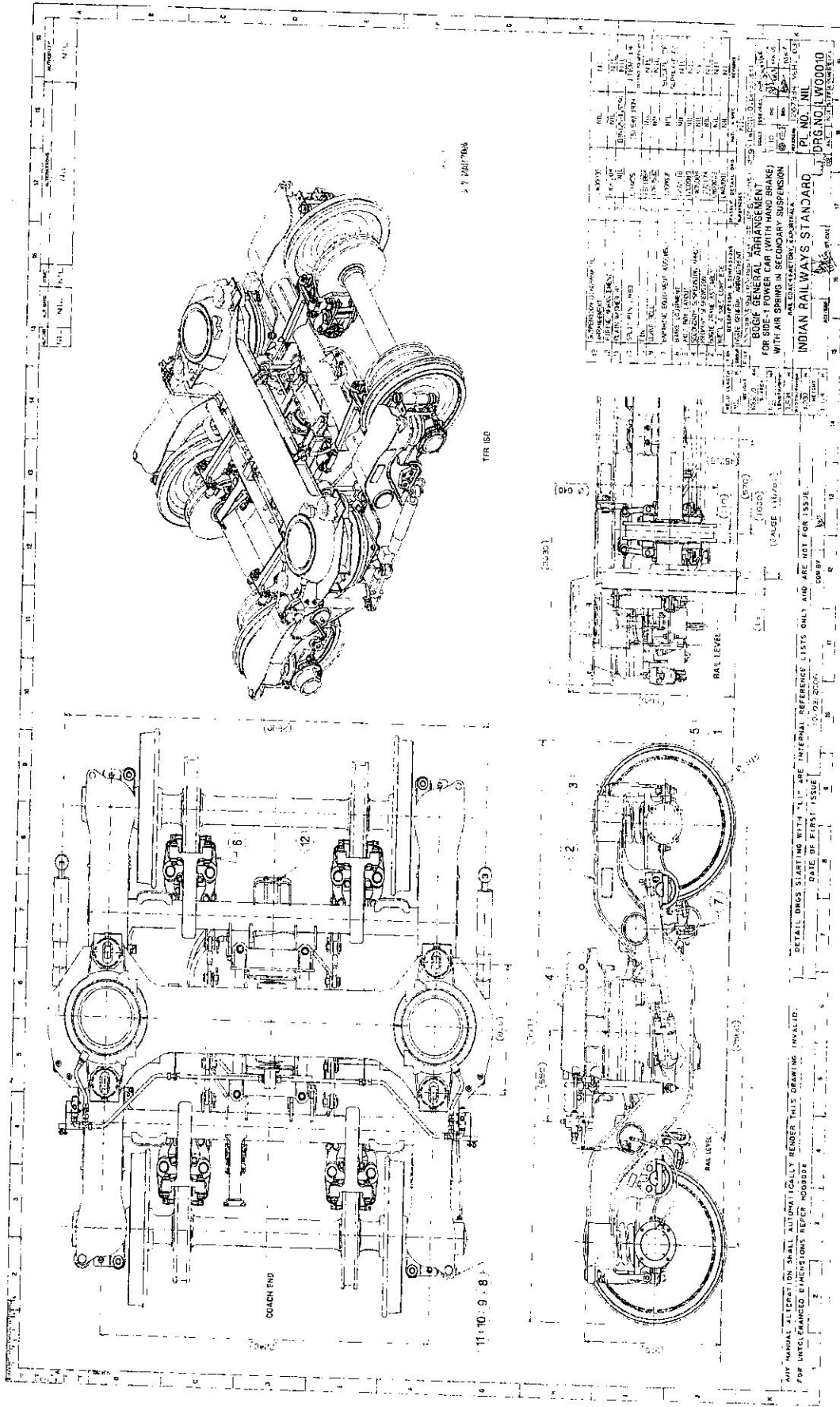
Date:

Signature of Customer

1. Please attach a photocopy of cheque along with the verification obtained from the bank.
2. In case your Bank Branch is presently not "RTGS enabled", then upon its up gradation to "RTGS Enabled" branch, please submit the information again in the above proforma to the Department at earliest.

NOTE:- Refund of Security Deposit/Hire Charges

Due to operation of E-payment w. e. f. 01/04/2012 the Mandate form may please be submitted, duly verified by the bank, to this office for claiming Refund of Security Deposit/ Hire Charges along with a photocopy of blank Cheque.



Handwritten signature

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RDSO/Lucknow

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For Service Contracts, Indian Railways follows the document titled

“General Conditions of Contract for Services”

This document is applicable to the present tender and may be downloaded by using the following link and navigation chart

<http://www.indianrailways.gov.in/railwayboard/>



About Indian Railways



Railway Board Directorates



Transformation Cell



Circulars



General Conditions of Contract for Service

[http://www.indianrailways.gov.in/railwayboard/uploads/directorate/Transformation Cell/Circulars/GCCS R.pdf](http://www.indianrailways.gov.in/railwayboard/uploads/directorate/Transformation%20Cell/Circulars/GCCS%20R.pdf)