

Section 3: Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with relevant ITB, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section 4 (Bidding Forms).

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1. Evaluation

In addition to the criteria listed in relevant ITBs, the other relevant factors are as follows:

1.1 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key personnel for the contract consistent with its proposal regarding work methods, scheduling in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Scope of Work-Terms of Reference).

1.2 Completion Time

Alternative Completion Time is not permitted.

1.3 Technical Alternatives

Technical alternatives is not permitted.

1.4 Specialist Subconsultant

Not Applicable.

1.5 Quantifiable Nonconformities and Omissions

Subject to ITB 14.2 and ITB 37.2, the evaluated cost of quantifiable nonconformities including omissions, is determined as specified in ITB 31.3.

1.6 Domestic Preference

Domestic preference is as per clause 17.2 and 36.1 of BDS/ITB.

1.7 Other Criteria

As per specific requirement of the Package.

1.8 Contracts (Single Contract/Multiple Contracts): Single Contract

if multiple contracts; Not Applicable

1.9 Joint Venture Participation

There should not be more than **four partners** in the Joint Venture (JV). Lead Partner must have **highest share** participation in Joint Venture and no Joint Venture partner shall have less than 20% **participation in the JV**. In case of JV, change in constitution or percentage participation shall not be permitted at any stage after the bid submission otherwise the bidder shall be treated as non-responsive.

2. Qualification

2.1 Eligibility

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
2.1.1 Nationality					
Nationality in accordance with ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Forms ELI - 1; ELI - 2, UT - 2 with attachments
2.1.2 Conflict of Interest					
No conflicts of interest in accordance with ITB 4.3.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Technical Bid
2.1.3 Blacklisting / Banning					
Not having been declared ineligible as described in ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Technical Bid and Affidavit
2.1.4 Government-Owned Entity					
Bidder required to meet conditions of ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Forms ELI - 1; ELI - 2 with attachments

2.2 Historical Contract Non-performance

2.2.1 History of Nonperforming Contracts

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
Non-performance of a contract ^a did not occur as a result of contractor/consultant default for last 5 calendar years from the last date of bid submission deadline.	Must meet requirement	Must meet requirement	Must meet requirement ^b	Must meet requirement	Form CON-1

^a Non-performance, as decided by the Employer, shall include all contracts where (i) non-performance was not challenged by the contractor/consultant, including through referral to the dispute resolution mechanism under the respective contract; and (ii) contracts that were so challenged but fully settled against the contractor/consultant. Non-performance shall not include contracts where the Employer's decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

^b This requirement also applies to contracts executed by the Bidder as JV member.

Note:

In case of non-performance of a Contract, the Bid shall be treated as non-responsive and considered technically non-compliant.

2.2.2 Suspension Based on Execution of Bid-Securing Declaration :-

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
Not under suspension from bidding by the Employer as a result of the execution of a Bid Securing Declaration.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Technical Bid

2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
Submission of audited financial data for the last 05 (Five) financial years or from the date of incorporation, whichever is later, to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive.	Must meet requirement	Not applicable	Must meet requirement	Must meet requirement	Form FIN – 1 (Audited annual financial statements are not required to be submitted)

2.3.2 Average Annual Turnover from Consultancy Services

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Substantial Partner	Lead Partner	
Minimum Average Annual Turnover from Consultancy Services of INR 179 Crore within the last 05 (Five) audited financial years.	Must meet requirement	Must meet requirement	Must meet at least 25% of the requirement	Must meet at least 40% of the requirement	Form FIN – 2

Note:

- (i) In case date of incorporation is within the period of less than last 5 years, the Average Annual Consultancy Turnover shall be calculated dividing the available turnover by 5.
- (ii) Annual turnover shall not include GST amount.

2.3.3 Financial Resources- NOT APPLICABLE

2.4 Work Experience

2.4.1 Contracts of Similar Size and Nature:

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	Lead Partner	
(A) Participation as a Single Entity or JV partner in One Single Contract/ work , within the last Ten years ending last day of the month previous to the month of deadline for bid submission, that has been successfully or substantially completed where the total value of the Bidder's participation is not less than INR 358 Crore in the similar work mentioned below. OR (B) Participation as a Single Entity or JV partner in Two Single Contracts/ works , within the last Ten years ending last day of the month previous to the month of deadline for bid submission, that has been successfully or substantially completed where the total value of the Bidder's participation is not less than INR 223 Crore in each Contract in the similar work mentioned below. OR (C) Participation as a Single Entity or JV partner in Three Single Contracts/ works , within the last Ten years ending last day of the month previous to the month of deadline for bid submission, that has been successfully or substantially completed where the total value of the Bidder's participation is not less than INR 179 Crore in each Contract in the similar work mentioned below. “ Similar Work ” shall mean: “General Consultancy / Project Management Consultancy”, for implementation of a Rail-based Passenger Transit System* , comprising of (i) Civil structures (at-grade/ elevated/ underground) AND (ii) Systems (Track, Rolling Stock, Traction & Power Supply, Signalling & Telecom). The scope of such General Consultancy/ Project Management Consultancy MUST have included:	Must meet requirement	Must meet requirement	At least one “Similar Work” of value not less than INR 89 Crores	At least one “Similar Work” of value not less than INR 143 Crores	Form EXP – 1

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	
a) Detailed design or Proof checking of designs; b) Bid Process Management; c) Project and Interface Management; d) Construction Supervision of Systems; and e) Testing and commissioning *Rail-based Passenger Transit System shall mean: High Speed Transit system / Regional Rail Transit System (with operational speed of 160Kmph and above) or Urban/ Suburban/ Intercity/ Mass Rapid Transit System (MRTS) [excluding LRT with design Peak Hour Peak Direction Traffic (PHPDT) less than 20000/Tram/Monorail Systems]				

2.4.2 Consultancy Experience in Key Activities - Deleted

Notes: -

- i. Bidder (either as a single entity or as a Lead partner in a JV/Consortium), must have completed or substantially completed at least one work as General Consultant/ Project Management Consultant for any infrastructure project (Infrastructure project may be any Infrastructure sub-sector as stated in the Updated Harmonized Master List of Infrastructure Sub-sectors related to "Transport and Logistics" notified vide gazette F.No.13/1/2017-INF. dt. 24th August 2020 issued by Infrastructure Policy & Programme Section, Department of Economic Affairs, Ministry of Finance), either outside the country of its incorporation or in INDIA during last ten (10) years ending last day of the month previous to the month of bid submission, having value equal to or more than **INR 143 Crore**.
- ii. In case of the work(s) submitted for qualification under clause 2.4.1 does not include work pertaining to provision of General Consultancy/Project Management Consultancy for elevated and underground sections, then the bidder/ Lead Partner in case of JV must have completed or substantially completed at least one "Similar Work" each for elevated and underground section each of value not less than Equivalent **INR 35 Crore**.
- iii. The work is considered as substantially completed:

if 80% of the awarded contract value or revised contract value whichever is lower has been certified for Payment. This is to be substantiated by a certificate as per Note of Form Exp-1. (Applicable to clause 2.4.1 & 2.4.2).
- iv. Deleted
- v. Only the value of contract as executed by the bidder in his own name should be indicated and shall be considered. Where a work is undertaken by a group (Joint Venture), only that portion of the work which is undertaken by the concerned bidder shall be considered and the remaining done by the other partners of the group shall be

excluded. This is to be substantiated with a specific certificate as per Note of Form Exp-1. In case specific division of works undertaken by the group partners is not stated in the submitted documents, then the percentage participation of the bidder in the group as stated in the submitted documents (JV/ agreement or Certificate) shall be considered as the value of the work done by the bidder/partner of JV. (Applicable to clause 2.4)

- vi. a) For Clause 2.3.1 Historical Financial Performance: In case the financial data is in currency(ies) other than INR, the same shall be converted into equivalent INR by adopting exchange rates between that Currency and INR as on last day of the respective financial year.
- b) For Clause 2.3.2 Average Annual Turnover from Consultancy Services, in case the figure is stated in currency other than INR, the same (currency of each financial year) shall be converted to INR by adopting the Exchange rate between that Currency and INR as on last day of the respective financial year.

The Annual turnover in INR or converted into INR as above from the currency other than INR, shall be updated by 5% per annum compounded annually from the last day of the respective financial year up to the last day of the latest audited Financial Year submitted by the bidder.

- c) For Sub-Clause 2.3.1: Requirements of clause 2.3.1 is not applicable for the bidder (participating as a single entity or as a member of JV/Consortium) which is a wholly owned entity (Corporation/Body/Authority etc) of the respective Government. Ownership details shall be substantiated by the bidder with supporting documents.
- d) For Clause 2.4, such works with payment received in other than INR shall be converted in INR by adopting the Exchange rate between that Currency and INR as prevailing on the completion date mentioned in the completion certificate and if month of completion is mentioned in the Completion Certificate then the exchange rate of last working day of the Month shall be taken. The value of work in INR or converted into INR as above from the currency other than INR shall be updated by 5% per annum compounded annually up to the last day of the month previous to the month of bid submission deadline.
- e) The source and modality of rates of exchange for (a), (b), (c) and (d) above shall be as defined in ITB 15.4. Bidder should indicate the source used with documentary evidence for conversion and conversion rates used for converting foreign currency into INR.
- vii. If the submitted work(s) in support of clause 2.4.1 and 2.4.2 (as the case may be) is a composite work/contract comprising of other works also, then Client certificate submitted by the Bidder as per Note of Form Exp-1/ Exp-2 shall clearly indicate the quantum of similar nature of work/specific key activities executed by the Bidder for the value of work required in clause 2.4.1 and 2.4.2 (as the case may be).
- viii. Only work executed as main consultant to the employer shall be considered/evaluated. Works executed as sub-consultant to a main consultant shall not be considered. Execution of similar works for a main contractor to the employer for a design & build contract shall also be considered. However, in such a case in addition to the satisfactory completion certificate issued by the main contractor, bidder has to submit documentary evidence signed by Director of the main contractor that main contractor was engaged by the employer for execution of construction activities for the same work and work is completed successfully along with the copy of proof of award of Design and Build Contract by Employer to Main Contractor, without which such works shall not be considered. In case bidder has made material, misrepresentation or has given any materially incorrect or false information, the matter shall be dealt with Clause para 3.1 (d) of ITB.

3. Evaluation of Technical Bid

3.1 Further evaluation of the technical bid of a bidder shall be done as per the marking /scoring system enumerated below:-

- (I) The evaluation committee appointed by the Employer shall carry out its technical evaluation applying the evaluation criteria and point system specified herein. Each responsive bid shall be attributed a technical score. The Bidder who scored 60% or more marks in total marks of 3.2 (I): **Experience of the Bidder for the Similar work**, 3.2 (II): **Personnel for Key positions / Experts** and 3.2 (III): **Evaluation based on understanding of Scope of work, Work Plan, Approach and Quality Aspect and Presentation** is considered to be technically qualified.
- For the evaluation of 3.2 (III) (A) –“ **Evaluation based on understanding of Scope of work, Work Plan, Approach and Quality Aspect**”, the bidder is required to submit a document (not more than fifteen Pages) in the technical bid covering his understanding of the scope of work, the methodology proposed to be adopted by him for carrying out the work including quality related aspects and a work plan for carrying out the work including quality related aspects tentative deployment schedule of Experts and a work plan for carrying out the work.
 - For the evaluation of 3.2 (III) (B) – “**Presentation to NCRTC on understanding Scope of work, Work Plan, Approach and Quality Aspect**”, Bidders shall be informed after opening of technical bid in writing by NCRTC for presentation and Bidder shall give presentation after about 7 days from the date of communication (presentation time 45 minutes followed by Q&A session) for ‘Approach, Methodology, and work Plan’ and ‘Presentation to NCRTC on understanding scope of work, approach and methodology to be adopted’ required as per Para 3.2 (III). Presentation to be given by the proposed **Team Leader / Project Director along with his other team supports** as defined in 3.2 (II).
 - If the number of technically qualified bidders are less than two, NCRTC may, at its sole discretion, shortlist the bidder(s) whose Score is less than 60% of maximum marks, the minimum prescribed, but not less than 50%, obtained in total marks of 3.2 (I), 3.2 (II) & 3.2 (III). In case of sole bidder submitting the offer, the minimum prescribed score may be reduced to 50%.
 - The Employer shall notify the technically qualified bidders indicating the date and time set for opening of the price bid.

3.2 The Scoring Criteria to be used for Evaluation of Technical Proposal shall be as follows:

Total Marks = 1000 (Breakup of marks is given below)

I	Experience of the Bidder for the Similar work	250
II	Personnel for Key positions / Experts	600
III	A) Scope of Work, Work Plan, Approach, Deployment and Quality Aspect Methodology	50
	B) Technical Presentation	100
	Total Marks	1000*

*The marks obtained by the bidder shall be rationalized to maximum of 100 marks for working out the composite score.

(I) Marking /Scoring system for Experience of the Bidder for the Similar work

Sl. No.	Components for evaluation	Total Marks	Documents required
1.	Bidder shall have completed/ substantially completed Similar Work mentioned in clause 2.4.1 during last 10 (Ten) years ending last day of the month before the month of bid submission deadline	250	Form Exp-1 along with completion certificates as per Note in Form Exp-1
	(i) One work => INR 358 Crores Or Two works => INR 223 Crores Or Three works => INR 179 Crores	<i>150 marks</i>	
	(ii) In addition to the (i) above, 50 marks for each additional similar work as mentioned in clause 2.4.1 of value => INR 179 Crores maximum up to two works	<i>100 marks</i>	
	Sub-total for (I)	250	

(II) Marking /Scoring system for Personnel for Key positions / Experts proposed by the Bidder (Key Experts – International and National /Local Key Experts to be deployed for this project as proposed by the Bidder**A. International Expert -**

‘International Expert’ shall mean the personnel having International experience as defined against proposed position for specified period in a Developed Economies / High Income Economies listed in Annexure- 1 of EQC.

B. “Eligible Assignments” for Key Experts –

Eligible Assignment for key experts shall mean experience of working as a personnel of General Consultant/ Project Management Consultant/ Employer/ Concessionaire Implementing the project/Contractor for implementation of **Rail-based Passenger Transit System** as defined in Para 2.4.1

The Marks for all the International Key Experts and local/National Experts of K1 level, shall be evaluated as detailed below:

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
1.	Team Leader / Project Director (International)	Graduate in Civil Engineering and having working Knowledge of reading, writing and Speaking in English.	5	0	1. 2.5 marks for additional qualification of post-graduation in Civil Engineering 2. 2.5 marks for additional qualification of MBA/ PG in Project Management
		Minimum Experience of 25 years post Bachelor's degree in the Infrastructure sub sector related to Transport & Logistics as defined in Note (i) under Clause 2.4.	15	0	3 marks for every one year of additional experience in the Infrastructure sub sector related to Transport & Logistics as defined in Note (i) under Clause 2.4
		Relevant Experience - 05 years' experience under "Eligible assignment" defined in clause-3.2 (II)(B) as Team leader or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). Total experience as Team Leader will be evaluated considering the period as Deputy Team Leader with the weightage mentioned above.	20	0	5 marks for every one year of additional relevant experience under "Eligible assignment" defined in clause-3.2 (II)(B) mentioned herein
		Eligible Assignment- Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 160 kmph or more as Team leader or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.	10	0	5 marks for working on each additional "Eligible Assignment" mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		<p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows:</p> <p>Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>			
		International Experience- Minimum 03 years' experience under "Eligible assignment" defined in clause-3.2 (II)(B) with operational speed of 160 kmph or more in Country(s) as defined in Clause 3.2(II)(A)	20	0	4 marks for every one year of additional International experience mentioned herein
		Sub-total	70		
2.	Chief System Integration & Interface Expert-Cum- Dy. Project Director (K1)	Graduate in Electrical Engineering or Electronics Engineering or Electronics and Communication Engineering with working Knowledge of reading, writing and Speaking in English.	6	0	6 marks for additional qualification of PG in Electrical Engineering or Electronics Engineering or Electronics and Communication Engineering
		Minimum Experience of 20 years post Bachelor's degree in Rail based Passenger Transit system	10	0	2 mark for everyone year of additional experience mentioned herein
		<p>Relevant Experience - 05 years' experience in Interface Management of Systems, System integration, and Testing & commissioning for Rail Based Passenger Transit System as Dy. Team leader or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). Total experience as Dy. Team Leader will</p>	14	0	3.5 marks for every one year of additional relevant experience mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		be evaluated considering the period at the position immediately below the proposed position with the weightage mentioned above.			
		<p>Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Dy. Team leader or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>	15	0	7.5 marks for working on each additional Assignment mentioned herein
		Sub-total	45		
3.	Chief Track Expert (International) (K1)	Graduate in Engineering or equivalent with working Knowledge of reading, writing and Speaking in English.	5	0	5 marks for additional qualification of PG in Engineering or equivalent
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit System	5	0	1 marks for every one year of additional experience mentioned herein
		<p>Relevant Experience -5 years experience for Design of Ballast-less Track system including Track Alignment for MRTS /Regional Rail /High Speed Rail as Chief Track Expert or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be</p>	12	0	3 marks for every one year of additional experience mentioned herein.

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		considered as 01 year).			
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 160 kmph or more as Chief Track Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments	8	0	4 marks for working on each additional Assignment mentioned herein
		International Experience- Minimum 03 years' experience under "Eligible assignment" defined in clause-3.2 (II)(B) with operational speed of 160 kmph or more in Country(s) as defined in Clause 3.2(II)(A)	10	0	2 mark for every one year of additional International experience mentioned herein
		Sub-total	40		
4.	Chief Signalling Expert (International) (K1)	Graduate in Electronics and Communication Engineering or equivalent with working Knowledge of reading, writing and Speaking in English.	5	0	5 marks for additional qualification of PG in Electronics and Communication Engineering or equivalent
		Minimum 20 Years post minimum qualification experience in S&T system in any Rail based Passenger Transit System	5	0	1 marks for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience for Design, procurement and Implementation, Testing & Commissioning of ETCS Level-2 Signalling System including interface with Telecom for Rail Based Passenger Transit System as	12	0	3 marks for every one year of additional experience mentioned herein.

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		Chief Signalling Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).			
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 160 kmph or more as Chief Signalling Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments	8	0	4 marks for working on each additional Assignment mentioned herein
		International Experience- Minimum 03 years' experience under "Eligible assignment" defined in clause-3.2 (II)(B) with operational speed of 160 kmph or more in Country(s) as defined in Clause 3.2(II)(A)	10	0	2 mark for every one year of additional International experience mentioned herein
		Sub-total	40		
5.	Sr. Traction Expert (International) (K2)	Graduate in Electrical Engineering with working Knowledge of reading, writing and Speaking in English.	5	0	5 marks for additional qualification of PG in Electrical Engineering
		Minimum 15 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 marks for every one year of additional experience

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
					mentioned herein
		Relevant Experience - 05 years experience for Design / Review and Implementation of AC Power Supply (EHV sub-station) & 25 KV AC Traction System for Rail Based Passenger Transit System with operational speed of 160 kmph or more as Senior Traction System Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	12	0	3 marks for every one year of additional experience mentioned herein.
		Eligible Assignment – Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 160 kmph or more as Senior Traction Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments	8	0	4 marks for working on each additional Assignment mentioned herein
		International Experience- Minimum 03 years' experience under "Eligible assignment" defined in clause-3.2 (II)(B) with operational speed of 160 kmph or more in Country(s) as defined in Clause 3.2(II)(A)	10	0	2 mark for every one year of additional International experience mentioned herein
		Sub-total	40		
6.	Chief Rolling Stock Expert (International)	Graduate in Electrical Engineering with working Knowledge of reading, writing and Speaking in English.	5	0	5 marks for additional qualification of PG in

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
	(K1)				Electrical Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit System	5	0	1 marks for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience for Design/ design review, procurement and Implementation, Testing & Commissioning of Rolling Stock for Rail Based Passenger Transit System as Chief Rolling Stock Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	12	0	3 marks for every one year of additional experience mentioned herein.
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 160 kmph or more as Chief Rolling Stock Expert or equivalent or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments	8	0	4 marks for working on each additional Assignment mentioned herein
		International Experience- Minimum 03 years' experience under "Eligible assignment" defined in clause-3.2	10	0	2 mark for every one year of additional

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		(II)(B) with operational speed of 160 kmph or more in Country(s) as defined in Clause 3.2(II)(A)			International experience mentioned herein
		Sub-total	40		
7.	Chief Operation Expert (K1)	Graduate in any Engineering or equivalent with working Knowledge of reading, writing and speaking in English.	2	0	2 marks for additional qualification of PG in Engineering or equivalent
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit System	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience for Operations of Rail Based Passenger Transit System as Chief Operations Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Operation Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments	8	0	4 marks for working on each additional Assignment mentioned herein
		Sub-total	25		
8.	Chief Contracts	Graduate in Civil Engineering with	2	0	2 marks for

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
	Expert (K1)	working Knowledge of reading, writing and Speaking in English.			additional qualification of LLB/post-graduation in Civil Engineering /MBA/ PG in Project Management
		Minimum 20 Years post minimum qualification experience in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience of Managing overall procurement process including bid document preparation and Bid Process Management, Contract management in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4 as Chief Contract expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). Total experience as Chief Contracts Expert or equivalent will be evaluated considering the period as Deputy Chief Contracts Expert or equivalent with the weightage mentioned above.	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II) (B) as Chief Contract expert or equivalent position or one level below to the proposed position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			
		Sub-total	25		
9.	Chief Quality Assurance & Quality Control Expert (K1)	Graduate in Civil Engineering with working Knowledge of reading, writing and Speaking in English.	2	0	2 marks for additional qualification of PG in Civil Engineering
		Minimum 20 Years post minimum qualification experience in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience on Preparation, Implementation and monitoring of Quality Assurance Plan and procedures in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4 as Chief Quality Assurance & Quality Control Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). Total experience as Chief Quality Assurance & Quality Control Expert or equivalent will be evaluated considering the period as Deputy Chief Quality Assurance & Quality Control Expert or equivalent with the weightage mentioned above.	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment - Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Quality Assurance & Quality Control Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		<p>period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows:</p> <p>Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>			
		Sub-total	25		
10.	Chief Safety, Health and Environmental Expert (K1)	Graduate in Engineering in Civil/Mechanical/Electrical with Full time Post Graduate/ Advance diploma/MBA in Industrial Safety with working Knowledge of reading, writing and Speaking in English.	2	2	-
		Minimum 20 Years post minimum qualification experience in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4	5	0	1 mark for every one year of additional experience mentioned herein
		<p>Relevant Experience - 05 years' experience for Preparation, Implementation and monitoring of safety Management system and emergency procedures regarding construction safety, Health & Environment for elevated and Underground in Infrastructure sub sector related to Transport & Logistics as defined in Notes (i) under Clause 2.4 as Chief Safety, Health and Environmental Expert or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p>	10	0	2.5 marks for every one year of additional experience mentioned herein.

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		Total experience as Chief Safety, Health and Environmental Expert or equivalent will be evaluated considering the period as Deputy Chief Safety, Health and Environmental Expert or equivalent with the weightage mentioned above.			
		<p>Eligible Assignment - Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Safety, Health and Environmental Expert or equivalent position or one level below to the proposed position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>	8	0	4 marks for working on each additional Assignment mentioned herein
		Sub-total	25		
11	Chief Testing and Commissioning Expert (K1)	Graduate in Engineering with working Knowledge of reading, writing and Speaking in English.	2	0	2 marks for additional qualification of PG Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience - Must have experience of 5 years of Planning and supervising Trial tests and commissioning of subsystems of Rail based Passenger Transit system and obtaining statutory approvals for Commercial operation as Chief Testing and Commissioning Expert	10	0	2.5 marks for every one year of additional experience mentioned herein.

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		<p>or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>Total experience as Chief Testing and Commissioning Expert or equivalent will be evaluated considering the period as Deputy Chief Testing and Commissioning Expert or equivalent with the weightage mentioned above.</p>			
		<p>Eligible Assignment - Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Testing and Commissioning Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>	8	0	4 marks for working on each additional Assignment mentioned herein
		Sub-total	25		
12	Chief Structural Design Expert (K1)	Graduate in Civil Engineering and Post Graduate in Structural Engineering with working Knowledge of reading, writing and speaking in English.	2	2	
		Minimum experience of 20 years post bachelor degree in detailed structural designs/ Proof Checking in Infrastructure projects as defined in Notes (i) under Clause 2.4. Out of which 15 years in detailed structural	5	0	1 mark for every one year of additional experience in Infrastructure projects as defined in Notes (i) under

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		designs/ Proof Checking of Elevated/At-grade stations, Viaduct with at least 5 years in Detailed structural design of Elevated stations and Viaduct for the Rail Based Passenger Transit System.			Clause 2.4.
		<p>Relevant Experience – 05 years' experience for Detailed structural design/ Proof Checking of Elevated Viaduct, Elevated stations, tunnels and underground stations for the Rail Based Passenger Transit System as Chief Structural Design Expert or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p>	10	0	2.5 marks for every one year of additional experience mentioned herein.
		<p>Eligible Assignment - Must have Experience of one "Eligible assignment" as Detailed design consultancy services or Proof consultancy services comprising of structural designs of Elevated Viaduct, Elevated stations, tunnels and underground stations having concourse and platform level for any Rail based Passenger Transit System as Chief Structural Design or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of "Eligible assignment" at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p> <p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments</p>	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		Min. 6 years = 3 Assignments			
		Sub-total	25		
13	Chief Geotechnical Expert (K1)	Graduate in Civil Engineering and Post Graduate in Soil/ Rock/ Geotechnical Engineering working Knowledge of reading, writing and Speaking in English.	2	2	
		Minimum experience of 20 years post bachelor degree in Civil Engineering in Geotechnical works in Infrastructure projects as defined in Notes (i) under Clause 2.4	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience – 5 years' experience for Review / Preparation of Geo-Technical Investigation report and Foundation design parameters and Temporary / Enabling works design for Underground structures as Chief Geo-technical/ Foundation Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment – Must have Experience of one "Eligible assignment" as Interpretation of Geo-technical data, Geo- technical report, Analysis of Underground Structures, design of Foundation for Viaduct / Bridges as Geo-technical / Foundation Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of "Eligible assignment" at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		<p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows:</p> <p>Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p>			
		Sub-total	25		
14	Chief Architecture Expert (K1)	Graduate in Architecture with working Knowledge of reading, writing and Speaking in English and also Registered as Architect with Council of Architecture (CoA).	2	0	2 marks for additional qualification of PG in Architecture
		Minimum 20 Years post minimum qualification experience in Architecture Design. Out of which 15 years in Rail Based Passenger Transit System	5	0	1 mark for everyone year of additional experience in Architecture Design
		<p>Relevant Experience - 05 years' experience for Planning and review of detailed Architectural design and drawings of Elevated stations, Underground stations and Depot, Preparation of Tender Drawings of Rail based Passenger Transit system as Chief Architecture Expert or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p>	10	0	2.5 marks for every one year of additional experience mentioned herein.
		<p>Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Architecture Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p>	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		<p>If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments</p> <p>Sub-total</p>	25		
15	Chief Track Expert (K1)	Graduate in Engineering with working Knowledge of reading, writing and Speaking in English.	2	0	2 marks for additional qualification of PG in Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 mark for every one year of additional experience mentioned herein
		<p>Relevant Experience - 5 years' experience for Design or Installation of Ballast-less Track system including Track Alignment for MRTS /Regional Rail /High Speed Rail as Chief Track Expert or equivalent position.</p> <p>The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).</p>	10	0	2.5 marks for every one year of additional experience mentioned herein
		<p>Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) with operational speed of 80 kmph or more for ballastless track as Chief Track Expert or equivalent position or one level or one level below to the proposed position for a full-time continuous deployment period not less than 2 years.</p> <p>The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be</p>	8	0	<p>1. 4 marks for working on additional Assignment mentioned herein and</p> <p>2. 4 marks for working on additional Assignment in rail based passenger transit system having operational speed of 160 kmph or more</p>

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			
		Sub-total	25		
16	Chief Telecommunications Expert (K1)	Graduate in Electronics and Communication Engineering or equivalent with working Knowledge of reading, writing and Speaking in English.	2	0	2 mark for additional qualification of PG in Electronics and Communication Engineering or equivalent
		Minimum 20 Years post minimum qualification experience in Telecom out of which atleast 10 (ten) years in any Rail based Passenger Transit system.	5	0	1 mark for every one year of additional experience as mentioned herein
		Relevant Experience - 5 years' experience for Review of Design, Implementation and Integrated Testing and Commissioning of Telecom system including Interface with other sub-systems for Rail Based Passenger Transit System as Chief Telecommunications Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Telecommunications Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			
		Sub-total	25		
17	Chief Power Supply and Traction System Expert (K1)	Graduate in Electrical Engineering with working Knowledge of reading, writing and Speaking in English.	2	0	2 mark for additional qualification of PG in Electrical Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 mark for every one year of additional experience as mentioned herein
		Relevant Experience - 05 years experience for Design / Review and Implementation of AC Power Supply (EHV sub-station) & 25 KV AC Traction System for Rail Based Passenger Transit System as Chief Power Supply and Traction System Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year)	10	0	2.5 marks for every one year of additional experience mentioned herein
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Power Supply and Traction System Expert or equivalent position or one level below or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	8	0	1. 4 marks for working on additional Assignment mentioned herein 2. 4 marks for working on additional Assignment in Regional Rapid Transit System (RRTS)/Mass Rapid Transit System (MRTS) [excluding LRT with design

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			PHPDT less than 20000/Tram/Monorail Systems]
		Sub-total	25		
18	Chief E&M, ECS, TVS and HVAC Expert (K1)	Graduate in Electrical /Mechanical Engineering with working Knowledge of reading, writing and Speaking in English.	2	0	2 marks for additional qualification of PG in Electrical/Mechanical Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 mark for every year of additional experience mentioned herein
		Relevant Experience - 05 years' experience for Design /Review and Implementation of ECS & TVS System/HVAC and E&M for Rail Based Passenger Transit System as Chief E&M, ECS, TVS and HVAC Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	10	0	2.5 marks for every one year of additional experience mentioned herein
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief E&M, ECS, TVS and HVAC Expert or equivalent position or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the	8	0	1. 4 marks for working on additional Assignment mentioned herein 2. 4 marks for working on additional Assignment in Regional Rapid Transit System (RRTS)/Mass Rapid Transit System (MRTS) [excluding LRT with design PHPDT less than 20000/Tram/Monorail Systems]

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			
		Sub-total	25		
19	Chief Depot Expert (K1)	Graduate in Electrical /Mechanical with working knowledge of reading, writing and Speaking in English.	2	0	2 marks for additional qualification of PG in Electrical/Mechanical Engineering
		Minimum 20 Years post minimum qualification experience in any Rail based Passenger Transit system.	5	0	1 mark for every one year of additional experience mentioned herein
		Relevant Experience - 05 years' experience of Project Management, facility/ workshop/ offices development for Depot including Planning, Design and Operation of Depot with minimum design capacity of 100 coaches for Rail Based Passenger Transit System as Chief Depot Expert or equivalent position. The period of relevant Experience at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be 50%. (For example, 02 years will be considered as 01 year).	10	0	2.5 marks for every one year of additional experience mentioned herein.
		Eligible Assignment -Must have Experience of one "Eligible assignment" as defined in above clause-3.2 (II)(B) as Chief Depot Expert or equivalent position or one level below or one level below to the proposed position for a full-time continuous deployment period not less than 2 years. The period of Eligible Assignment at the position immediately below the proposed position in organization shall also be considered but its weightage for the period shall be	8	0	4 marks for working on each additional Assignment mentioned herein

S.no	Key position/ Expert	Minimum qualification / experience requirement	Maximum Marks	Marks for fulfillment of minimum requirement	Additional marks in case of more qualification / experience than minimum qualification / experience requirement
		50%. (For example, 02 years will be considered as 01 year). If assignment period is more than 2 years on a particular project, the number assignment will be considered as follows: Min. 4 years = 2 Assignments Min. 6 years = 3 Assignments			
		Sub-total	25		
	Sub-total for (II)		600		

(III) Marking /Scoring system for Approach, Methodology, Work Plan and Concept Presentation

Sl. No.	Components for evaluation	Total Marks	Documents required
A.	Scope of Work, Work Plan, Approach, Deployment and Quality Aspect Methodology: Evaluation based on understanding of Scope of work, Work Plan, Approach and Quality Aspect Methodology- For the evaluation of the above, in the technical bid, the bidder is required to submit a document (not more than 15 (fifteen) pages) covering his understanding of the scope of work and methodology proposed to be adopted by him for carrying out the work including quality related aspects and work plan for execution of work. Bidder shall also add as an annexure to the above document (beyond above 15 (fifteen) pages), a detailed tentative deployment schedule of Experts.	50	
B.	Technical Presentation to NCRTC on understanding scope of work, work plan, approach, Deployment, Quality aspects and methodology to be adopted alongwith case study reflecting exposure and excellence in an assignment as mentioned in similar work as defined in 2.4.1.	100	
	Sub-total for (III)	150	
	Total Marks for (I, II & III)	1000	

Notes-

- The bidder shall not be considered for further evaluation, if the proposed Project Director scores less than 50% of total marks allotted to its position and shall be considered as non-responsive and financial bid of those bidders shall not be opened.

In case the Bidder's proposed key expert, other than the Project Director, scores less than 50% (Fifty percent) of total marks, such expert would not be considered for the technical evaluation and would be awarded zero mark. However, the bid of the bidder requiring replacement of more than 07 nos. of such experts who score less than 50% (Fifty percent) of total marks allotted to their respective positions, on the basis of evaluation, shall be considered as non-responsive and financial bid of those

bidders shall not be opened.

The highest composite scoring bidder would have to replace all such experts if any, who scored less than 50% (Fifty percent) of total marks allotted to their respective positions, during negotiations, with an expert who shall fulfil the minimum criteria of the position and in the opinion of the Employer would score 50% (Fifty percent) or above of total marks allotted to its position.

All Key experts proposed by bidder must qualify all minimum qualification/experience requirements stipulated above for its category. In case any of the proposed key expert by the bidder does not meet the minimum requirements stipulated above for its category, the overall score of such key person shall be evaluated as NIL.

- ii. Detailed CV of all above proposed 21 nos. key experts for the stipulated key positions mentioned in clause 3.2 (II) above should be submitted by the bidder as per the format enclosed at CL-1 in Section-04, Bidding form for technical evaluation. Only one CV shall be submitted for each Key Expert's position. Bidders shall not propose alternative Key Experts. In case alternative Key Experts for a position are proposed by a bidder, the marks of that position shall be assigned Zero marks. There is no limitation for a person to participate as Key Experts in more than one bid except for the position of Project Director and System Integration & Interface Expert-Cum- Deputy Project Director. In case CV of same personnel for the position of Project Director and System Integration & Interface Expert-Cum-Deputy Project Director are proposed by the bidders in more than one bid, then the marks for that position shall be assigned Zero.
- iii. Bidders are required to submit detailed CV of the proposed key experts (only one CV for each of the key positions) as per the format provided in Form CL-1, Section 4, Bidding Forms. The copies of self-attested qualification certificates must be enclosed with the CV to substantiate the fulfillment of minimum qualifications. Degree qualification shall mean full time/part time degree/ equivalent from a recognized university or in the case of international qualifications, equivalent to qualification as in Indian education system. Qualifications other than degree shall be supported by the certification from the bidder for its equivalency to degree. In case of any discrepancy found during bid evaluation process, NCRTC can verify the said declaration / part of declaration from the owners of the project. Any such wrong declaration by the experts found during verifications, NCRTC has the right to reject such bids. Bidders should also be prepared to substantiate the claimed qualification and experience if so requested by the Employer.
- iv. If the proposed key expert is serving or served in any Govt. Departments/ Govt. Undertakings/ Govt. JVs/ PSUs / CPSEs etc., the equivalency in the experience and in the eligible assignment for K1 position shall be considered if the proposed key expert is working or worked in L13/ E7 or above grades. Further for the position one level below the K1, experts served or serving as E4/L11 and above shall be considered.
- v. Key experts shall be adequately supported by required Non-Key Experts (Non-Key 1, Non-Key 2, Non-Key 3 and Non-Key-4 professionals) and Support Staff.
- vi. CVs of balance Key Experts and Non-key Experts (Key-1, Key-2, Non-Key-1, Non-Key-2, Non-Key-3, Non-Key-4) stated in Section-06 (Scope of Work) shall be submitted by the Consultant for approval of Client prior to their deployment. Balance Key Experts and Non-key Experts shall be required to satisfy the minimum experience & qualification requirements stated in Section-06 (Scope of Work).
- vii. For calculating Experience and Eligible Assignment, 6 months or more shall be counted as one year and below 6 months shall be ignored
- viii. Key Experts (Project Director, System Integration & Interface Expert-Cum- Deputy Project Director and K1) proposed above shall not be more than 65 years of age as on last day of the month before the month of bid submission deadline. If any Key Experts proposed above is more than 65 years of age as on last day of the month

before the month of bid submission deadline, then the proposed expert shall be awarded zero marks.

4. Technical Score of Bidder (St)

The evaluation of the technical bids shall be done on the basis of various documents submitted by the bidder, as per the method of evaluation stipulated above. After technical evaluation of the technical bids as per the stipulated method, the technical marks of the bidder in technical evaluation (T) shall be arrived at by rationalizing it to maximum score of 100 marks. The Bidder with highest marks (Tm) will be given a Technical Score (St) of 100 points. The Technical Scores of other Bidders will be computed as follows:

$$\text{St} = 100 \times T/T_m$$

(T = Technical marks scored as per Technical Evaluation criteria)

Further based on the Technical St arrived, composite score shall be worked out in accordance with clause 5.2.

5. Financial Bid evaluation

5.1 Financial Score of the bidder (Sf)

The Financial score of a bidder shall be worked out as per the following formula
Sf = 100 x Fm / F

Where;

‘Sf’ is the Financial score of a bidder

‘Fm’ is the lowest total price received in the bidding

‘F’ the total quoted price of the bidder

5.2 Composite Score

The composite score of a bidder which shall be the deciding factor in award of the work. It shall be worked out as under:

$$\text{Composite Score of a bidder} = \text{St} \times 0.80 + \text{Sf} \times 0.20$$

Where, ‘St’ & ‘Sf’ are the technical and financial scores of a bidder respectively.

5.3 Bidder with the highest composite score shall be considered for the award of work as per Clause 42 of ITB. In case, bidders have same composite score then the bidder who has highest technical score (St) shall be considered for award of work.