

CORRIGENDUM No. 7 Tender No. CMRL-P1-PMC-01-2025 "Selection of Project Management Company (PMC) for Chennai Metro Rail Phase 1 Network Capacity Enhancement Project"																																																																																					
S. No.	Part/Section No.	Section	Clause No.	Original Bid Condition	Revised Bid Condition																																																																																
1	Section - 2	Instructions to Consultants (ITC)	D. Data Sheet, Clause 20		Data Sheet, Clause 20 is revised and attached as Annexure -1 to corrigendum.																																																																																
2	Section -3	Technical Bid	FORM TECH-8 SELF-EVALUATION SHEET		DELETED																																																																																
3	Section - 3	Technical Bid	Technical Bid : TECH-18 Description of Approach, Methodology, and Work Plan in Responding to the Terms of Reference <i>(newly added)</i>		Form Tech-18 is added and attached as Annexure-2 to corrigendum.																																																																																
4	Section - 5	Terms of Reference (TOR)	Chapter-5, Table 1 Summary of Expertise required.	<table><tr><th colspan="6">Table 1: Summary of Expertise required.</th></tr><tr><th>S.No</th><th>Category</th><th>Level</th><th>Expert</th><th>Experience required</th><th>Man-Month</th></tr><tr><td>1.</td><td rowspan="3">Pro-A</td><td>Level 1</td><td rowspan="2">Key Experts</td><td>For Project Director • 15 20 years or more working experience • 10 15 years or more in Relevant Field For Deputy Project Director • 15 years or more working experience • 10 years or more in Relevant Field</td><td rowspan="2">300-396</td></tr><tr><td>2.</td><td>Level 2</td><td>• 13years or more working experience • 8 years or more in Relevant Field</td></tr><tr><td>3.</td><td>Level 3</td><td rowspan="3">Non Key Experts</td><td>• 10 years or more working experience • 5 years or more in Relevant Field</td><td>372-324</td></tr><tr><td>4.</td><td rowspan="2">Pro-B</td><td>B1</td><td>2 years or more working experience 1 years or more in Relevant Field</td><td rowspan="2">737</td></tr><tr><td>5.</td><td>B2</td><td>2 years or more working experience</td></tr><tr><td colspan="5">Total</td><td>1400-1457</td></tr></table>	Table 1: Summary of Expertise required.						S.No	Category	Level	Expert	Experience required	Man-Month	1.	Pro-A	Level 1	Key Experts	For Project Director • 15 20 years or more working experience • 10 15 years or more in Relevant Field For Deputy Project Director • 15 years or more working experience • 10 years or more in Relevant Field	300-396	2.	Level 2	• 13years or more working experience • 8 years or more in Relevant Field	3.	Level 3	Non Key Experts	• 10 years or more working experience • 5 years or more in Relevant Field	372-324	4.	Pro-B	B1	2 years or more working experience 1 years or more in Relevant Field	737	5.	B2	2 years or more working experience	Total					1400-1457	<table><tr><th colspan="6">Table 1: Summary of Expertise required.</th></tr><tr><th>S.No</th><th>Category</th><th>Level</th><th>Expert</th><th>Experience required</th><th>Man-Month</th></tr><tr><td>1.</td><td rowspan="3">Pro-A</td><td>Level 1</td><td rowspan="2">Key Experts</td><td>For Project Director 15-20 years or more working experience 10-15 years or more in Relevant Field As detailed below in table 1a. For Deputy Project Director 15 years or more working experience 10 years or more in Relevant Field As detailed below in table 1a.</td><td rowspan="2">300 396</td></tr><tr><td>2.</td><td>Level 2</td><td>13 years or more working experience • 8 years or more in Relevant Field As detailed below in table 1a.</td></tr><tr><td>3.</td><td>Level 3</td><td rowspan="3">Non Key Experts</td><td>10 years or more working experience • 5 years or more in Relevant Field As detailed below in table 1b</td><td>372 324</td></tr><tr><td>4.</td><td rowspan="2">Pro-B</td><td>B1</td><td>2 years or more working experience 1 years or more in Relevant Field As detailed below in table 1b</td><td rowspan="2">737</td></tr><tr><td>5.</td><td>B2</td><td>2 years or more working experience As detailed below in table 1b</td></tr><tr><td colspan="5">Total</td><td>1400 1457</td></tr></table>	Table 1: Summary of Expertise required.						S.No	Category	Level	Expert	Experience required	Man-Month	1.	Pro-A	Level 1	Key Experts	For Project Director 15-20 years or more working experience 10-15 years or more in Relevant Field As detailed below in table 1a. For Deputy Project Director 15 years or more working experience 10 years or more in Relevant Field As detailed below in table 1a.	300 396	2.	Level 2	13 years or more working experience • 8 years or more in Relevant Field As detailed below in table 1a.	3.	Level 3	Non Key Experts	10 years or more working experience • 5 years or more in Relevant Field As detailed below in table 1b	372 324	4.	Pro-B	B1	2 years or more working experience 1 years or more in Relevant Field As detailed below in table 1b	737	5.	B2	2 years or more working experience As detailed below in table 1b	Total					1400 1457
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5	Section - 5	Terms of Reference (TOR)	Chapter-5,Table 1 foot note : Key Experts Sl. No. 6	The Consultant shall seek approval from the Client for CV of all the personnel before deployment.	The Consultant shall submit the CVs of all personnel for the Client's approval prior to deployment. This is applicable for the CVs of Key-Experts submitted along with the bid. The client may conduct interviews of the proposed personnel before granting such approval.
6	Section - 5	Terms of Reference (TOR)	Chapter-5,Table 1a foot note : Non-Key Experts Sl. No. 5	The Consultant shall seek approval from the Client for CV of all the personnel before deployment.	The Consultant shall submit the CVs of all personnel for the Client's approval prior to deployment. This is applicable for the CVs of Key-Experts submitted along with the bid. The client may conduct interviews of the proposed personnel before granting such approval.
7	Section - 5	Terms of Reference (TOR)	Chapter-5, Table 1b: Detailed Qualification and experience of Non- Key Experts, Sl. 7 (Newly Added)	Interface Engineer Pro-B B2	Interface Engineer Pro-B B1

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8	Section - 5	Terms of Reference (TOR)	Chapter-5, Table 2: Scope of Work for experts : Position code B1(a) <i>(Newly added)</i>		<table><tr><td>B1</td><td>Interface Engineer</td><td>1) Report to Senior System Integration Expert. 2) Interface with Civil, MEP and System packages using BIM software. 3) Review integration portion of all System packages. 4) Review the 3-D models/ drawings submitted by all Civil, MEP and System contractors. 5) Ensure integration of all Systems.</td></tr></table>	B1	Interface Engineer	1) Report to Senior System Integration Expert. 2) Interface with Civil, MEP and System packages using BIM software. 3) Review integration portion of all System packages. 4) Review the 3-D models/ drawings submitted by all Civil, MEP and System contractors. 5) Ensure integration of all Systems.
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9	Section - 5	Terms of Reference (TOR)	Chapter-5, Table 2: Scope of Work for experts : Position code B1 <i>(Newly added)</i>		<table><tr><td>B1</td><td>Assistant – Finance</td><td>1) Report to Finance Expert. 2) Estimate the total project cost, the investment cost, Q&M cost, administration cost and financial cost and propose the tariff structure to sustain financial viability of CMRL. 3) Review and update the budget, financial and accounting rules, policy and manuals of CMRL in integrated manner with Chennai Metro Rail Project Phase I. 4) Prepare the financial data of monthly/quarterly progress report and reconcile such information with borrower's financial records. 5) Assist the borrower to reconcile physical progress with financial progress.</td></tr></table>	B1	Assistant – Finance	1) Report to Finance Expert. 2) Estimate the total project cost, the investment cost, Q&M cost, administration cost and financial cost and propose the tariff structure to sustain financial viability of CMRL . 3) Review and update the budget, financial and accounting rules, policy and manuals of CMRL in integrated manner with Chennai Metro Rail Project Phase I. 4) Prepare the financial data of monthly/quarterly progress report and reconcile such information with borrower's financial records. 5) Assist the borrower to reconcile physical progress with financial progress.
B1	Assistant – Finance	1) Report to Finance Expert. 2) Estimate the total project cost, the investment cost, Q&M cost, administration cost and financial cost and propose the tariff structure to sustain financial viability of CMRL . 3) Review and update the budget, financial and accounting rules, policy and manuals of CMRL in integrated manner with Chennai Metro Rail Project Phase I. 4) Prepare the financial data of monthly/quarterly progress report and reconcile such information with borrower's financial records. 5) Assist the borrower to reconcile physical progress with financial progress.						
10	Section- 6	General Conditions of Contract & Special Conditions of Contract	SCC clause 31.1	Replace with the Following: If Key Expert is required to be replaced on the instructions of the Client, the proposed replacement expert shall possess the required qualifications and experience as Detailed in Terms of Reference (ToR) Chapter 5. Staffing (Expertise required) in and shall be acceptable to the Client.	Replace with the Following: If key expert is required to be replaced on the instructions of the Client, the proposed replacement expert shall score the marks equivalent or more compared to the original expert,whose CV was evaluated and initially approved. a) Within 20 days from the date of instruction by the client, the consultant shall submit the CV to the client for review and approval. b) The consultant shall arrange the interview within 7 days of CV approval and deploy the Key- Expert if found suitable, within 30 days from the date of approval on his/her suitability by the client. In any case, if the CV/Candidate is found unsuitable, an alternate CV shall be submitted within 10 days.CV of the replacement Key-Expert shall be provided within 20 days from the Date of Instruction of the Client. Failing which the penalty shall be levied 10% of the expert rate per month beyond 20 Days and if crossed more than 30 Days for submission of the CV, penalty shall be levied expert rate per month for every month delay. Maximum time period for replacement of the Expert shall be 3 months from the Date of instruction by the Client.			
11	Section- 6	General Conditions of Contract & Special Conditions of Contract	SCC clause 31.2	Replace with the Following: If key expert is required to be replaced on its own by the consultant, for the reasons other than death, severe accidents, gross illness, the Qualification and Experience credentials of the proposed replacement Key-Expert for the above replacement shall be meeting the criteria mentioned in the Terms of Reference (ToR) Chapter 5. Staffing (Expertise required). Remuneration for the proposed replacement expert will be 95% of the original expert man month rate and subsequently 5% reduction for each replacement.	Replace with the Following: If key expert is required to be replaced on its own by the consultant, for the reasons other than death, severe accidents, gross illness and i.the marks scored by the proposed replacement key expert for the above replacement shall be equivalent or more than the marks scored by the original key expert, whose CV was evaluated and initially approved. ii. Remuneration for the proposed replacement key expert will be 85% of the original key expert and subsequently 5% reduction (to previously approved rate) for each replacement. ii.CV of key experts shall be provided within 30 days from the CMRL approval of the proposal Failing which the penalty shall be levied 10% of that expert rate per month until submission of the CV or otherwise Client may have right to engage the in-house or from market at Consultant's risk and cost. This is also applicable for Key Experts whose CVs were evaluated during bid evaluation.			

S. No.	Part/Section No.	Section	Clause No.	Original Bid Condition	Revised Bid Condition
12	Section- 6	General Conditions of Contract & Special Conditions of Contract	SCC clause 33.5	Replace with the following: If Expert is required to be replaced on the instructions of the Client, the proposed replacement expert shall possess the required qualifications and experience as Detailed in Terms of Reference (ToR) Chapter 5. Staffing (Expertise required) and shall be acceptable to the Client. .a) Within 20 days from the date of instruction by the client, the consultant shall submit the CV to the client for review and approval. b) The consultant shall arrange the interview within 7 days of CV approval and deploy the expert if found suitable, within 30 days from the date of approval on his/her suitability by the client. In any case, if the CV/Candidate is found unsuitable, an alternate CV shall be submitted within 10 days. CV of the replacement expert shall be provided within 20 days from the Date of Instruction of the Client. Failing which the penalty shall be levied 10% of the expert rate per month beyond 20 Days and if crossed more than 30 Days for submission of the CV, penalty shall be levied expert rate per month for every month delay. Maximum time period for replacement of the Expert shall be 3 months from the Date of instruction by the Client.	Replace with the following: If any expert including the Key-Expert is required to be replaced on the instructions of the Client, the proposed replacement expert shall score the marks equivalent or more compared to the original expert, whose CV was evaluated and initially approved. a) Within 20 days from the date of instruction by the client, the consultant shall submit the CV to the client for review and approval. b) The consultant shall arrange the interview within 7 days of CV approval and deploy the expert if found suitable, within 30 days from the date of approval on his/her suitability by the client. In any case, if the CV/Candidate is found unsuitable, an alternate CV shall be submitted within 10 days. CV of the replacement expert shall be provided within 20 days from the Date of Instruction of the Client. Failing which the penalty shall be levied 10% of the expert rate per month beyond 20 Days and if crossed more than 30 Days for submission of the CV, penalty shall be levied expert rate per month for every month delay. Maximum time period for replacement of the Expert shall be 3 months from the Date of instruction by the Client.
13	Section- 6	General Conditions of Contract & Special Conditions of Contract	SCC clause 33.6	Replace with the Following: The Qualification and Experience credentials of the proposed replacement expert for the above replacement shall be meeting the criteria mentioned in the Terms of Reference (ToR) Chapter 5. Staffing (Expertise required). Remuneration for the proposed replacement expert will be 95% of the original expert and subsequently 5% reduction for each replacement.	Replace with the Following: If any expert including the Key-Expert is required to be replaced on its own by the consultant, for the reasons other than death, severe accidents, gross illness and the marks scored by the proposed replacement expert for the above replacement is equivalent or more to the original expert whose CV was evaluated and initially approved. Remuneration for the proposed replacement expert will be 85 % of the original expert for the first replacement and subsequently 5% reduction (to previously approved rate) for each replacement
14	Section - 6	General Conditions of Contract & Special Conditions of Contract	Clause 52 (newly added)	NA	Add new clause : Requirement for Software-Based Mobile Application & Web Application A Web Application and Mobile Application-based validation and monitoring system shall be implemented for this Contract. The application shall be with Bio-metric or Geo-fenced for the attendance system. The cost of development, deployment, and maintenance of the Web and Mobile Applications shall be included as part of the reimbursable expenses. Functional Requirements The System shall be capable of defining, capturing, and maintaining all attendance and related metrics as per the contract. The Application shall provide individual user logins for experts to record attendance including work location, working hours, leaves/holidays etc. through the Mobile Application, and corresponding CMRL user logins to verify, validate, and record deviations, if any. The Software shall have the capability to store and maintain historical data for a minimum period of two (2) years from the date of entry, with provisions for retrieval, audit, and reporting as required by CMRL. All data generated or stored in the system shall be confidential and remain the sole property of CMRL. The Mobile and Web Applications shall serve as an essential validation tool for billing. The Application shall

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					generate invoice automatically based on the attendance and other requirements of the contract. Any claim or validation not processed through the approved system shall not be considered for billing. The Applications shall be implemented from the date of commencement of the Contract. The design and workflow of both Mobile and Web Applications shall be submitted to CMRL for prior approval. CMRL reserves the right to modify or upgrade the Mobile and Web Applications during the contract period , if required. The cost of modification or upgradation shall be brone by the consultant.
15	Tender Document				The Tender Documents for tender No. CMRL-P1-PMC-01-2025, revised as Revision 02, incorporating all the modifications from this corrigendum, is being uploaded in CPP portal.

Section-2, ITC, Clause D. Data Sheet clause 20

S. No	Criteria/sub-criteria	Notes on evaluation	Maximum Marks	Additional information
1	Past & Specific experience of the Consultant			
1.1	No. of years of experience as Consultant (single entity or JV member) in Similar Projects (Single or Multiple Projects) pertaining to Metro Rail in India or International,.	a) 10 marks for ≥ 7 years of experience b) 7 marks for ≥ 5 , but < 7 years of experience. c) 5 marks for ≥ 3 , but < 5 years of experience. d) Zero marks for < 3 years of experience.	10	i) In the case of the Bidder is a JV/Consortium, only the Lead Member's experience shall be considered for evaluation. ii) Experience of the bidder will be calculated from the project(s) that is executed by the them during the period of last 10 years only as on the last date of this bid submission. iii) Copies of LoA/Agreement /Work order/ certificate issued by the client (clearly mentioning the scope of work, project value, start and completion dates) shall be submitted the bidder. iv) Proof of completion of work for the completed project(s) and proof of experience for ongoing project(s), issued by the respective client shall be submitted by the bidder. v) The period between Date of issue of LoA/Agreement/Work Order and Date of work completion shall be considered as experience period. However, Only the portion of project executed during the last 10 years period as on the last date of this bid submission shall be considered for experience of the bidder.
1.2	No. of similar projects (ongoing or completed), where the fees received per project shall be as detailed below for the period of last 10 years as on the last date of bid submission, in India or Internationally.	a) 18 marks for :- 3 or more projects for which, the fees received per project is $\geq$ INR 35 crores and $\leq$ INR 70 crores, OR 2 projects for which, the fees received per project is $>$ INR 70 crores, b) 12 marks for two projects for which, the fees received per project is $\geq$ INR 35 crores c) 6 marks for one project for which, the fees received is $\geq$ INR 35 crores d) Zero marks for nil projects	18	In case of the Bidder is a JV/Consortium, individual member's past project experience with fees received per project above INR 35 Cr. shall be considered and combined for calculation of No. of projects and for evaluation. ii) Proof of experience (ongoing / completed) of project consultancy service issued by the respective client and the details of amount received shall be submitted by the bidder.
2	Substantial completion of similar projects:			
2.1	Substantially completed similar projects in terms of total route km commissioned (in revenue operation) in last 10 years as on the last date of bid submission, in India or Internationally.	a) 20 marks for ≥ 50 route km b) 15 marks for ≥ 30 , but < 50 route km c) 10 marks for ≥ 10 , but < 30 route km d) Zero marks for < 10 route km	20	i) In the case of the Bidder is a JV/Consortium, individual member's past project experience shall be considered and combined for calculation of No. of route Kms. and for evaluation. ii) For contracts under which the Bidder participated as a JV member, only the Bidder's share by percentage for total route KM completed/substantially completed shall be considered to meet this requirement. iii) Proof of experience of project consultancy service issued by the respective client shall be submitted by the bidder.
3	Qualification and relevant experience of Key Experts	As detailed in Additional criteria note 11	32	Refer ToR, Chapter 5 Staffing – Key Experts
4	Methodology and Work Plan	A description of the approach, methodology and work plan for performing the assignment, including a detailed description of the proposed methodology. Marking: Excellent - 20 marks, Good - 15 marks, average - 10 marks, below average - 5 marks, poor - no mark. For details, please refer to point no. 10 below.	20	Please refer to Form TECH-18.
Total Technical Score			100	Minimum Technical score required for qualification: 70

Additional criteria/notes:

1. Applicants may be a single entity or a Joint Venture (JV/Consortium) with not more than Three JV/Consortium partners and with minimum of 25% participation of each. Consultants may associate with other firms to enhance their qualifications but should indicate clearly whether the association is in the form of a joint venture and/or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.
2. Similar Project means providing General Consultancy or Project Management Consultancy services to Indian metro railway or International metro railway company. The scope of work must have included at least majority of the following key components:
Review of detailed designs, Preparation of specifications, Preparation of bid documents and Tender assistance, checking designs, Project management and Supervision including Construction supervision, Safety, Environment management and Quality, Testing and Commissioning of the work.
3. (a) In case of JV/Consortium, the members shall identify the Lead Member who shall have the highest share with not less than 40% and Lead member must have done at least one similar work of INR 35 Cr. or equivalent in any currency in last 10 years ending last date of bid submission.

(b) In case of JV/Consortium, other members shall have done at least one similar work in the last 10 years ending last date of bid submission.
4. (a) For the purpose of evaluation, amounts received in Indian Rupees shall be updated to the current price level by applying annual compounding at 5% inflation for each year.

(b) For the purpose of evaluation, the amount received in other currency shall be converted into INR as on 28 days before the last date of this bid submission, as per Foreign Exchange Rate as published by FBIL (Financial Benchmarks India Pvt. Ltd.), irrespective of the date of receipt of payment from the Employer.
5. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority (As per TN GO Ms. No. 343, dated 18th September 2020). (Attached as Annexure -3)
6. Substantial completion means the project is commissioned (fully/partly) and is in use of passenger
7. Route Kms means the commissioned length of Mainline Network for passenger service.
8. Average annual turnover shall be of Minimum of INR 13.2 crores for last three years as on the last date of bid submission. The average annual turnover of JV will be based on percentage of participation of the member in this tender. Example: Let Member-1 has percentage participation = M and Member - 2 = N. Let the average annual turnover of Member-1 is 'A' and that of Member-2 is 'B', then the average annual turnover of JV will be
$$= [(A \times M) + (B \times N)]/100$$

9. The Bidder shall demonstrate access to financial resources of at least INR 2.5 Crores (excluding advances and other commitments); otherwise, a bank certificate as per Form Tech-6 shall be submitted.

10. Notes on evaluation of methodology and work plan

The Consultant's submission will be evaluated, and the following grading scheme and marks will be given: -

a. Technical approach and methodology:

Excellent: The Consultant properly understands the current situation, draws attention to all main issues related to the assignment and raises other important issues that have not been considered in TOR. The proposal details ways to solve all issues by using state-of-the-art and innovative approach and methodology.

Good: The Consultant properly understands the current situation and the main issues of the project. The approach and methodology to solve the issues are discussed in detail.

Average: The Consultant understands the requirement indicated in TOR. The approach and methodology to solve the issues are consistent. However, the approach and methodology are standard and not discussed in detail or not specifically tailored to the assignment.

Below Average: The Consultant does not have a proper understanding of TOR and the issues are not appropriately discussed. The approach and methodology do not have consistency and are inappropriately or poorly presented.

Poor: The Consultant misunderstands the requirement indicated in TOR and important aspects of the scope of consulting services. Hence discussion about the important issues, approach and methodology are inappropriate.

b. Work plan

Excellent: In addition to the requirements stated below under "Good", the proposal uses state-of-the-art approach and methodology for efficient execution of the assignment. The proposed work plan is consistent with the approach and methodology.

Good: The work plan fits TOR well. The timing and duration of all activities is appropriate and consistent with the assignment output, and the interrelation between various activities is realistic and consistent with the proposed approach and methodology.

Average: The work plan fits TOR and all required activities are indicated in the activity schedule, but they are not detailed.

Below Average: Some activities required in TOR are omitted in their work schedule or timing and duration are not appropriate. There are minor inconsistencies between timing, assignment output, proposed approach and methodology.

Poor: There are major inconsistencies between the requirements in TOR and the proposed work plan

11. Evaluation Criteria for Key Experts

Notes:

- a.** Consultants to submit the CV in the format as per form TECH-11.
- b.** Cut-off date for calculating the years of experience shall be 28 days before the last date of Bid submission deadline.

- c. The Consultant shall clearly indicate the period (date of joining and date of leaving) of each assignment for all key experts. If the consultant fails to mention the month, last month of the joining year and first month of leaving year will be considered for evaluation purpose.
- d. The Consultant shall clearly indicate the graduation degree with discipline and year. The CV shall not be evaluated, if the Consultant fails to provide the graduation (bachelor's degree) details. Only post qualification experience will be considered for evaluation.
- e. All key experts must have English proficiency to read and write. Declaration for the same shall be provided as per form TECH-11.
- f. Personnel not meeting the minimum requirements, shall not be considered for evaluation of scoring criteria (shall be awarded "0" mark) for the particular CV.
- g. Failure to deploy the experts whose CVs were evaluated during the technical bid stage shall attract penalty in accordance with the provisions of SCC Clause 31.2.

1 (a) Project Director

A. Minimum requirements for evaluation:

1. Must have Graduation in Electrical / Electronics & Communication / Mechanical Engineering / Equivalent in relevant discipline.
2. Must have 20 years of Professional experience in relevant field in any agency
3. Must have 15 years of working experience in Rolling Stock System in Metro / Railways / LRT project. At least one project experience in brownfield metro projects involving capacity enhancement is preferred.

B. Scoring Criteria

Criteria	Max marks
I. Education Qualifications: • Post-graduation in Engineering/Science in Engineering/Management/ Equivalent in relevant discipline - 1 marks • Graduation in Electrical / Electronics & Communication / Mechanical Engineering / Equivalent in relevant discipline. – 0.5 mark	1
II. Professional experience (in relevant field in any agency) • Above 25 years – 2 marks • 20 to 25 years – 1 marks	2
III. Working Experience in Rolling Stock System in Metro/Railways/LRT Project • Above 25 years – 3 marks • 20 to 25 years – 2 marks • 15 to 20 years – 1 marks	3
Total Marks	6

1(b) Deputy Project Director

Minimum requirements for evaluation:

1. Must have Graduation in Electrical / Electronics & Communication / Equivalent in relevant discipline.
2. Must have 15 years of Professional experience in relevant field in any agency.

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3. Must have 10 years of working experience in Signalling System of GoA2/GoA3/GoA4 in Metro / Railways / LRT project. At least one project experience in brownfield metro projects involving capacity enhancement is essential.	
Criteria	Max marks
I. Education Qualification - Graduate in Electrical / Electronics & Communication / Equivalent in relevant discipline.	0.5
II. Professional experience (in relevant field) - Above 20 years – 1 mark 15 to 20 years – 0.5 marks	1
III. Working Experience in Signalling System of GoA2/GoA3/GoA4 in Metro / Railways / LRT project. - Above 15 years – 1 mark 10 to 15 years – 0.5 marks	1
IV. Project experience in brownfield metro projects involving capacity enhancement - More than 1 project – 1 mark 1 project – 0.5 marks	1
Total Marks	3.5

1(c) Senior System Integration Expert

Minimum requirements for evaluation:	
1. Must have Graduation in Electrical / Electronics & Communication Engineering / Equivalent in relevant discipline	
2. Must have 13 years of Professional experience in relevant field in any agency.	
3. Must have 8 years of working experience in Rolling Stock and/or Signalling System in Metro / Railways / LRT project. At least one project experience in brownfield metro projects involving capacity enhancement is preferred.	
Criteria	Max marks
I. Education Qualification - Graduate in Electrical / Electronics & Communication Engineering / Equivalent in relevant discipline.	0.5
II. Professional experience (in relevant field in any agency) - Above 15 years – 1 mark 13 to 15 years – 0.5 marks	1
III. Working experience in Rolling Stock and/or Signalling System in Metro / Railways / LRT project. - Above 10 years – 1 mark 8 to 10 years – 0.5 marks	1
Total Marks	2.5

2. Senior Rolling Expert (2nos) 4. Senior PS&OHE Expert 6. Senior Signalling Expert 7. Senior PSD Expert 8. Senior Telecom Expert.

Minimum requirements for evaluation:

1. Must have Graduation in Electrical / Electronics & Communication /Mechanical Engineering / Equivalent in relevant discipline.
2. Must have 13 years of Professional experience in relevant field in any agency.
3. Must have 8 years of working experience in Metro / Railways / LRT project

Criteria		Max marks
I.	Education Qualification - Graduate in Electrical / Electronics & Communication /Mechanical Engineering / /Equivalent in relevant discipline.	0.5
II.	Professional experience (in relevant field in any agency) • Above 15 years – 1 mark • 13 to 15 years – 0.5 marks	1
III.	Working experience in Metro/Railways/LRT project • Above 10 years – 1 mark • 8 to 10 years – 0.5 marks	1
Total Marks		2.5
Combined Total Marks for 6 Key-Experts		15

3. Senior Track Expert 5. Senior Civil Expert

Minimum requirements for evaluation:

1. Must have Graduation in Civil Engineering / Equivalent in relevant discipline.
2. Must have 13 years of Professional experience in relevant field in any agency
3. Must have 8 years of working experience in Metro / Railways / LRT project

Criteria		Max marks
I.	Education Qualification - Graduate in Civil Engineering / Equivalent in relevant discipline.	0.5
II.	Professional experience (in relevant field in any agency) • Above 15 years – 1 mark • 13 to 15 years – 0.5 marks	1
III.	Working experience in Metro/Railways/LRT project • Above 10 years – 1 mark • 8 to 10 years – 0.5 marks	1
Total Marks		2.5
Combined Total Marks for 2 Key-Experts		5

Form TECH- 18

Description of Approach, Methodology, and Work Plan in Responding to the Terms of Reference

Form TECH-18: A description of the approach, methodology and work plan for performing the assignment, including a detailed description of the proposed methodology.

- a) **Technical Approach and Methodology.** Please explain your understanding of the objectives of the assignment as outlined in the Terms of Reference (TOR), the technical approach, and the methodology you would adopt for implementing the tasks including the Environmental, Social, Health and Safety (ESHS) aspects] to deliver the expected output(s), and the degree of detail of such output. Please do not repeat/copy the TOR in here.
- b) **Work Plan.** Please outline the plan for the implementation of the main activities/tasks of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and tentative delivery dates of the reports. The proposed work plan shall be consistent with the technical approach and methodology, showing your understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents (including reports) to be delivered as final output(s) should be included here. The work plan shall be consistent with the TOR chapter 4 Time Schedule.

Note: - Methodology and Work Plan shall be limited to **maximum 10 pages**.