



**KOLKATA METRO RAIL CORPORATION LIMITED**

KMRC BHAWAN (2<sup>nd</sup> & 3<sup>rd</sup> Floor)  
 Munshi Prem Chand Sarani  
 Kolkata – 700 021

**Contract EWE-2[R]**

**Dated: August 09, 2013**

**ADDENDUM NO. 4** to the Tender Document for the work of "Design, Construction of 365.646m Viaduct from (Ch. M 8958.405m to 9324.051m) connecting Via-duct constructed on either side along the Elevated Section of East West Corridor of Kolkata Metro"

It has been decided to modify the EWE-2[R] Tender Document with respect to Clauses as tabulated below:

Sl. No	Reference	As Existing	As revised now
1.	Volume-1, Part-I – Notice Inviting tender (Footer, Page Number)	Page 1 of 17	Page 1 of 14
2.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.2, (Background) first Paragraph, Page 1 of 17 (read 1 of 14)	<p>M/s. Gammon India Limited was awarded the contract for the design and Construction of 4.725 Km viaduct work from Subhas Sarovar to Salt Lake Sector V (P1 to P182) including the Depot entry viaduct for a length of around 1.048 Km in early 2009. Major part of the work virtually completed by M/s. Gammon. The portion of the original alignment between P37 and P51 could not be constructed due to the existence of Dattabad Settlement. Subsequently, KMRC developed an alternative alignment with increased span adopting balanced cantilever type superstructure with adjacent spans from P37 to P51 which will affect least number of hutments. The two major foundations of the balanced cantilever are proposed at two water bodies (Ponds) of the locality. Both piers P37 and P51 along with pier caps were already constructed. The finished track level at P-37 is 15.650 m. The finished track level at P-51 is 13.155m. The ground level excepting the pond locations is around 3.20m. Pier P50, was already constructed excepting the pier cap. The scope of work would include construction of civil works for foundations, sub-structure and superstructure along with appurtenances from</p>	<p>M/s. Gammon India Limited was awarded the contract for the design and Construction of 4.725 Km viaduct work from Subhas Sarovar to Salt Lake Sector V (P1 to P182) including the Depot entry viaduct for a length of around 1.048 Km in early 2009. Major part of the work virtually completed by M/s. Gammon. The portion of the original alignment between P37 and P51 could not be constructed due to the existence of Dattabad Settlement. Subsequently, KMRC developed an alternative alignment with increased span adopting balanced cantilever type superstructure with adjacent spans from P37 to P51 which will affect least number of hutments. The two major foundations of the balanced cantilever are proposed at two water bodies (Ponds) of the locality. Both piers P37 and P51 along with pier caps were already constructed. The finished track level at P-37 is 15.650 m. The finished track level at P-51 is 13.155m. The ground level excepting the pond locations is around 3.20m. Pier P50, was already constructed excepting the pier cap. The scope of work would include construction of civil works for foundations, sub-structure and superstructure along with appurtenances from</p>

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3.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.2, (Background) second Paragraph Page 1 of of 17 (read 1 of 14)	chainage 8958.405 m to 9324.051m on a Design Built basis, including shifting and relocation of underground and over ground utilities, restoration of road/median or other facilities, affected due to construction. The Contractor has to include in his bid all the eventuality associated during construction in and around existing human settlement. The Contractor may adopt alternative methods for construction All spans should have similar cable duct and walkway arrangements as on the already constructed span.	chainage 8958.405 m to 9324.051m on a Design Built basis, including shifting and relocation of underground and over ground civil utilities, restoration of road/median or other facilities, affected due to construction, which will be paid as item rate work in BOQ. The Contractor has to include in his bid all the eventualities associated during construction in and around existing human settlement. All spans should have similar parapet, cable trough and walkway arrangements as on the already constructed span.
4.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.2, (Background) sl. (vii) Page 2 of 14	(vii) Construction of the side spans at both ends of the main span including stitching of the PSC adjacent span structures with the PSC structure.	(vii) Construction of the other spans at both ends of the balance cantilever span including stitching of the PSC adjacent span structures with the PSC structure of the other span.
5.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.2, (Background) sl. (xv) Page 2 of 14	(xv) Construction for ground water recharging/Rain harvesting.	(xv) Construction for ground water recharging/Rain harvesting [if any].
6.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.2, (Background) sl. (xxiii) Page 3 of 14	(xxiii) Shifting of all dry utilities like electricity, telephone as per shifting plan and policy approved by utility owning agency/department and shifting of all related structures	(xxiii) Preparation of all existing dry utility plan (both Underground and Overhead) through data collection and trenching. Assist KMRCL in implementing the diversion, as necessary, through the utility owning agency
7.	Volume-1, Part-I – Notice Inviting tender Cl. 1.1.4, (Eligibility Criteria) sl. 1) Experience Page 3 of 14	1) Experience Must have proven experience of having successfully completed design and construction of elevated corridor for Rail/Road or Bridge Structure comprising at least 1200mm diameter RCC bored Piles with RCC balanced cantilever superstructure for at least 60m long main span during last 5 calendar years ending 31 <sup>st</sup> December, 2012 <ul style="list-style-type: none"> <li>▪ One similar work costing not less than Rs.27 Crores or</li> <li>▪ Two similar works costing not less than 17 Crores each or</li> <li>▪ Three similar works costing not less than 13.5 Crores each</li> </ul>	1) Experience Must have proven experience of having successfully completed design and construction of elevated corridor for Rail/Road or Bridge Structure comprising at least 1200mm diameter RCC bored Piles with RCC balanced cantilever superstructure for at least 60m long main span during last 5 calendar years ending 30 <sup>th</sup> April 2013 <ul style="list-style-type: none"> <li>▪ One similar work costing not less than Rs.27 Crores or</li> <li>▪ Two similar works costing not less than 17 Crores each or</li> <li>▪ Three similar works costing not less than 13.5 Crores each</li> </ul>
8.	Volume-1, Part-I – Notice Inviting	Completion period of the Work	Completion period of the Work

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9.	tender Cl. 1.1.5 (Key Details), Page 4 of 14 Volume-1, Part-I – Notice Inviting tender Cl. 2.1, Page 5 of 14	15 months  Tenderer may download tender documents from web site <a href="http://www.kmrc.in">www.kmrc.in</a> and submit the document duly filled in after taking print out through laser print only in A4 size paper. Master copy of Tender Document is available in KMRCL's Office. In case, any discrepancy between Tender Document down loaded from the web site and the master copy, the latter shall prevail and binding on the Tenderers. The Tenderer shall submit a crossed Demand Draft from Nationalized or Schedule Bank in India in favour of "Kolkata Metro Rail Corporation Limited" payable at Kolkata along with tender document down loaded from web site without which the tender shall not be opened. The said Demand Draft shall be put into a separate envelop super scribing "Demand Draft for the cost of Tender Document" followed by the name of the Tender.	18 months  Deleted
10.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.1.1 , (Brief Scope) first Paragraph , Page 7 of 14	M/s. Gammon India Limited was awarded the contract for the design and Construction of 4.725 Km viaduct work from Subhas Sarovar to Salt Lake Sector V (P1 to P182) including the Depot entry viaduct for a length of around 1.048 Km in early 2009. Major part of the work virtually completed by M/s. Gammon. The portion of the original alignment between P37 and P51 could not be constructed due to the existence of Dattabad Settlement. Subsequently, KMRC developed an alternative alignment with increased span adopting balanced cantilever type superstructure with adjacent spans from P37 to P51 which will affect least number of hutments. The two major foundations of the balanced cantilever are proposed at two water bodies (Ponds) of the locality. Both piers P37 and P51 along with pier caps were already constructed. The finished track level at P-37 is 15.650 m. The finished track level at P-51 is 13.155m. The ground level excepting the pond locations is around 3.20m. Pier P50, was already constructed excepting the pier cap. The scope of work would include construction of civil works for foundations, sub-structure and superstructure along with appurtenances from chainage 8958.405 m to 9324.051m on a Design Built basis, including shifting and relocation of underground and over ground utilities, restoration of road/median or other facilities, affected due to construction. The Contractor has to include in his bid all the eventuality associated during construction in and around existing human settlement. The Contractor may adopt alternative methods for construction	M/s. Gammon India Limited was awarded the contract for the design and Construction of 4.725 Km viaduct work from Subhas Sarovar to Salt Lake Sector V (P1 to P182) including the Depot entry viaduct for a length of around 1.048 Km in early 2009. Major part of the work virtually completed by M/s. Gammon. The portion of the original alignment between P37 and P51 could not be constructed due to the existence of Dattabad Settlement. Subsequently, KMRC developed an alternative alignment with increased span adopting balanced cantilever type superstructure with adjacent spans from P37 to P51 which will affect least number of hutments. The two major foundations of the balanced cantilever are proposed at two water bodies (Ponds) of the locality. Both piers P37 and P51 along with pier caps were already constructed. The finished track level at P-37 is 15.650 m. The finished track level at P-51 is 13.155m. The ground level excepting the pond locations is around 3.20m. Pier P50, was already constructed excepting the pier cap. The scope of work would include construction of civil works for foundations, sub-structure and superstructure along with appurtenances from chainage 8958.405 m to 9324.051m on a Design Built basis, including shifting and relocation of underground and over ground civil utilities, restoration of road/median or other facilities, affected due to construction, which will be paid as item rate work in BOQ. The Contractor has to include in his bid all the eventualities associated during construction in and around existing human settlement.
11.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF	All spans should have similar cable duct and walkway arrangements as on the already constructed span.	All spans should have similar parapet, cable trough and walkway arrangements as on the already constructed span.

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12.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.1.1 , (Brief Scope) third Paragraph sl. (vii) Page 7 of 14	(vii) Construction of the side spans at both ends of the main span including stitching of the PSC adjacent span structures with the PSC structure.	(vii) Construction of the other spans at both ends of the balance cantilever span including stitching of the PSC adjacent span structures with the PSC structure of the other span.
13.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.1.1 , (Brief Scope) third Paragraph sl. (xv) Page 8 of 14	(xv) Construction for ground water recharging/Rain harvesting.	(xv) Construction for ground water recharging/Rain harvesting [if any].
14.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.1.1 , (Brief Scope) second Paragraph sl. (xxiii) Page 8 of 14	(xxiii) Shifting of all dry utilities like electricity, telephone as per shifting plan and policy approved by utility owning agency/department and shifting of all related structures	(xxiii) Preparation of all existing dry utility plan (both Underground and Overhead) through data collection and trenching. Assist KMRCL in implementing the diversion, as necessary, through the utility owning agency
15.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.4.1 (Reference to the Standard Codes of Practice) Page 11 of 14	2.4.1.3 In case of discrepancy among Standard codes of practice, Technical Specifications and provisions in sub clauses in this NIT, the order of precedence will be as below: i) Provision in NIT ii) Technical Specifications, iii) CPWD specifications iv) Standard Codes of Practice.  In case of discrepancy among Standard Codes of Practice, the order of precedence will be IRS, IRC, IS, BS, DIN.	2.4.1.3 In case of discrepancy among Standard codes of practice, Technical Specifications and provisions in sub clauses in this NIT, the order of precedence will be as below i) Provision of Scope of Work attached to NIT ii) Technical Specifications iii) CPWD Specifications iv) Standard Codes of Practice in the following sequence: a) IRS b) IRC c) IS d) BS e) DIN

SI. No	Reference	As Existing	As revised now
16.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.8 (TRAFFIC MANAGEMENT) Page 12 of 14	<b>TRAFFIC MANAGEMENT</b> The Contractor shall make the detailed traffic diversion plans in consultation with Kolkata Traffic Police. The work is to be executed with proper liaison with Kolkata Traffic Police. Necessary assistance will be given by KMRCL. The scheme should be such that minimum of two lane of traffic on each direction of the road should be available for the smooth flow of traffic. The Contractor should inspect the site. <b>The construction barricading for execution of work will be restricted to 8m.</b> The Contractor shall also strengthen the road where the diversions are planned by widening, repairing to the road surface etc	<b>TRAFFIC MANAGEMENT</b> The Contractor shall make the detailed traffic diversion plans in consultation with Kolkata Traffic Police and Bidhannagar City Police. The work is to be executed with proper liaison with Kolkata Traffic Police and Bidhannagar City Police. Necessary assistance will be given by KMRCL. The scheme should be such that minimum of two lane of traffic on each direction of the road should be available for the smooth flow of traffic. The Contractor should inspect the site. <b>The construction barricading for execution of work will be restricted to 10m preferably 8m.</b> The Contractor shall also strengthen the road where the diversions are planned by widening, repairing to the road surface etc. which will be paid in Schedule-C
17.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.9 (Scope of Work under BOQ items) Page 12 of 14	2.9.4 The shifting of the utility(s) would be undertaken only in exceptional circumstances where in the opinion of the Employer no other option is available. The utilities are to be diverted with proper liaison and approval of the utility owning agencies. For the utilities which are not to be diverted proper supporting shall be done to prevent any damage. Contractor shall be paid for diverting the wet utilities like water supply, sewerage, drainage etc under relevant Schedule 'D' items. No payment shall however be made for shifting of dry utility & supporting and protecting any of the dry/wet utilities during course of the work	2.9.4 The shifting of the utility(s) would be undertaken only in exceptional circumstances where in the opinion of the Employer no other option is available. The utilities are to be diverted with proper liaison and approval of the utility owning agencies. For the utilities which are not to be diverted proper supporting shall be done to prevent any damage. Contractor shall be paid for diverting the wet utilities like water supply, sewerage, drainage etc under relevant Schedule 'D' items. No payment shall however be made for supporting and protecting any of the dry/wet utilities during course of the work
18.	Volume-1, Part-I – Notice Inviting tender (SCOPE OF WORK) Cl. 2.9 (Scope of Work under BOQ items) Page 12 of 14	2.9.6 Inserts/Fixtures/Supports/Hangers for System Contractor	2.9.6 Inserts/Fixtures/Supports/Hangers for System Contractor [if required]
20.	Volume-1, Part-II – Instruction to Tenderers (FORM OF TENDER) Sl. No. 3. (FORM A PAGE 1 of 3) Page 19 of 41	We undertake, if our Tender is accepted, to commence the works within 15 days of issue of the Engineer's order to commence and to complete the whole of the Works comprised in the Contract within <b>months</b> calculated from the date of issue of the Letter of Acceptance, as indicated in the Appendix	We undertake, if our Tender is accepted, to commence the works within 15 days of issue of the Engineer's order to commence and to complete the whole of the Works comprised in the Contract within <b>18 months</b> calculated from the date of issue of the Letter of Acceptance, as indicated in the Appendix
21.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause 1.1 (Introduction) Page 1 of 41	<b>1.1 INTRODUCTION</b> Kolkata Metro Rail Corporation Limited (KMRCL) invites sealed tenders from eligible Tenderers for the work under Contract package EWE-1A for the above Work.  The Tender documents consist of seven volumes, along with their Annexures, Appendices, and Addenda /	<b>1.1 INTRODUCTION</b> Kolkata Metro Rail Corporation Limited (KMRCL) invites sealed tenders from eligible Tenderers for the work under Contract package EWE- 02[R]for the above Work.  The Tender documents consist of four volumes, along

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22.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause 1.2 (d) Page 1 of 41	(d) Period of completion (Form A) <b>15 Months</b> from the date of issue of "Letter of acceptance".  Tenders shall be prepared and submitted in accordance with the instructions given herein.	(d) Period of completion (Form A) <b>18 Months</b> from the date of issue of "Letter of acceptance".  Tenders shall be prepared and submitted in accordance with the instructions given herein.
23.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause <b>2.0. (ELIGIBILITY REQUIREMENTS)</b> Page 1 of 41 and 2 of 41	<b>2.0. (ELIGIBILITY REQUIREMENTS)</b>  The Tenderer shall satisfy the Eligibility Criteria stated in NIT. The Tenderer may engage Detailed Design Consultant (DDC) for undertaking the design of the captioned Work. The DDC proposed to be appointed by the Tenderer must have carried out design of at least one similar completed works of value not less than Rs. 27.0 Crores during the last 5 years. Tenderer shall have to submit documentary evidence in support of DDC's proven experience in carrying out Design and Engineering of similar work as aforesaid. The name of the DDC shall be stated along with his Technical Package. On acceptance of the tender, the Tenderer shall have to enter into an Agreement with his DDC proposed in his Tender incorporating Terms and Conditions acceptable to the Employer. After award of Contract, Tenderer shall not employ any other DDC to carryout part design work.	<b>2.0. (ELIGIBILITY REQUIREMENTS)</b>  The Tenderer shall satisfy the Eligibility Criteria stated in NIT. The Tenderer may engage Detailed Design Consultant (DDC) for undertaking the design of the captioned Work. The DDC proposed to be appointed by the Tenderer must have carried out design of at least one similar completed works of value not less than Rs. 27.0 Crores or two works of value not less than 17.0 Crores each or three works of value not less than 13.5 Crores each during the last 5 calendar years ending 30 <sup>th</sup> April 2013 or later. Tenderer shall have to submit documentary evidence in support of DDC's proven experience in carrying out Design and Engineering of similar work as aforesaid. The name of the DDC shall be stated along with his Technical Package. On acceptance of the tender, the Tenderer shall have to enter into an Agreement with his DDC proposed in his Tender incorporating Terms and Conditions acceptable to the Employer. After award of Contract, Tenderer shall not change his DDC without prior approval of the Employer. During execution of the Work, Tenderer shall not employ any other DDC to carryout part design work unless specifically allowed by the Employer.
24.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause <b>4.0. (SITE VISIT)</b> sub clause 4.3 Page 3 of 41	4.3 Geotechnical Data in Volume 2 (Part III) of tender are based on the surveys conducted by KMRCL and for reference only. This being a Part Design and Built Contract, tenderer is expected to satisfy himself with data furnished and if required carry out investigations independently for design or construction methodology later during execution on account of change will be borne by the Contractor.	4.3 Geotechnical Data in Volume 2 (Part III) of tender are based on the surveys conducted by KMRCL and for reference only. This being a Design and Built Contract, tenderer is expected to satisfy himself with data furnished and if required carry out investigations independently for submitting his offer. Any change in design or construction methodology later during execution on account of change will be borne by the Contractor

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25.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause 9.0. (DOCUMENTS COMPRISING THE TENDER) sub clause 9.1.1 (e) (i) Page 5 of 41	(e) Financial Data (i) Total value Construction work done for the last seven - financial years (Form T-VI)	(e) Financial Data (i) Total value Construction work done for the last five - financial years (Form T-VI)
26.	Volume-1, Part-II – Instruction to Tenderers (ITT) Clause 9.0. (DOCUMENTS COMPRISING THE TENDER) sub clause 9.1.2 (e) Page 6 of 41	(e) Tender documents from Volume 1, Volume 2, Volume 3, Volume 4, Volume 6 and Volume 7 (as listed in NIT) with true copy of Volume 5 (BOQ) without Price duly signed each page and stamped. The Tenderer shall confirm that his Pried offer is without any conditions, deviations, qualifications or remarks, and if any, has been priced for unconditional withdrawal.	(e) Tender documents from Volume 1, Volume 2, Volume 4, (as listed in NIT) with true copy of Volume 3 (BOQ) without Price duly signed each page and stamped. The Tenderer shall confirm that his Pried offer is without any conditions, deviations, qualifications or remarks, and if any, has been priced for unconditional withdrawal.
27.	Volume-1, Part-II – Instruction to Tenderers (FORM OF TENDER) Si. No. 3. (FORM A PAGE 1 of 3) Page 19 of 41	3. We undertake, if our Tender is accepted, to commence the works within 15 days of issue of the Engineer's order to commence and to complete the whole of the Works comprised in the Contract within <b>months</b> calculated from the date of issue of the Letter of Acceptance, as indicated in the Appendix.	3. We undertake, if our Tender is accepted, to commence the works within 15 days of issue of the Engineer's order to commence and to complete the whole of the Works comprised in the Contract within <b>18 months</b> calculated from the date of issue of the Letter of Acceptance, as indicated in the Appendix.
28	Volume-1, Part-II – Instruction to Tenderers (FORM OF TENDER) Si. No. IV. (FORM A PAGE 3 of 3) Page 21 of 41	iv Time for completion from the date of issue of the Letter of Acceptance <b>10.1 of General Conditions</b> <b>15 months</b>	iv Time for completion from the date of issue of the Letter of Acceptance <b>10.1 of General Conditions</b> <b>18 months</b>

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29.	Volume-1, Part-II – Instruction to Tenderers (FORM OF TENDER) (FORM T-VI, Financial Data) Page 37 of 41	<p style="text-align: center;"><b>FORM T-VI</b> <b>FINANCIAL DATA</b> (Refer Clause 5.2)</p> <p>Total value of construction work done during the last Seven Financial years (For each member in case of Group):</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. No</th> <th>Description</th> <th>Year 2004-05 (Rs. in Crore)</th> <th>Year 2005-06 (Rs. in Crore)</th> <th>Year 2006-07 (Rs. in Crore)</th> <th>Year 2007-08 (Rs. in Crore)</th> <th>Year 2008-09 (Rs. in Crore)</th> <th>Year 2009-10 (Rs. in Crore)</th> <th>Year 2010-11 (Rs. in Crore)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Total value of construction work done</td> <td>(1) (2)</td> <td>(3)</td> <td>(4)</td> <td>(5)</td> <td>(6)</td> <td>(7)</td> <td>(8)</td> </tr> <tr> <td></td> <td></td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> <td>Original Value as per Audited balance sheet considering the escalation</td> </tr> <tr> <td></td> <td></td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> <td>Updated value after considering the escalation</td> </tr> </tbody> </table> <p>I. Attach attested copies of the Audited Financial Statements of the last five financial years as Annexures. Financial Values to be given in Crores of Rupees.</p> <p>ii. Updated values upto 31/03/2011 price level, assuming 5% inflation for Indian Rupees every year and 2 % for foreign currency portions per year.</p> <p>iii. This sheet should be certified by Company Auditor/ Chartered Accountant along with his signature and seal in original.</p>	S. No	Description	Year 2004-05 (Rs. in Crore)	Year 2005-06 (Rs. in Crore)	Year 2006-07 (Rs. in Crore)	Year 2007-08 (Rs. in Crore)	Year 2008-09 (Rs. in Crore)	Year 2009-10 (Rs. in Crore)	Year 2010-11 (Rs. in Crore)	1.	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30.	Volume-1, Part-II – Instruction to Tenderers (FORM OF TENDER) Sl. No. 4. (Annexure-D, Minimum Organisation Structure Required) Page 40 of 41	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">4.</td> <td style="width: 25%;">Civil Engineer/ Design Engineer/Geo-technical Engineer</td> <td style="width: 25%;">Graduation in concerned Disciplines</td> <td style="width: 25%;">Total minimum experience of 10 years out of which minimum 5 years experience in relevant field.</td> </tr> </table>	4.	Civil Engineer/ Design Engineer/Geo-technical Engineer	Graduation in concerned Disciplines	Total minimum experience of 10 years out of which minimum 5 years experience in relevant field.	<p>Form in A-4 size also attached separately at the end the Addendum for use</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">4.</td> <td style="width: 25%;">Civil Engineer/ Design Engineer/Geo-technical Engineer / Mechanical Engineer</td> <td style="width: 25%;">Graduation in concerned Disciplines</td> <td style="width: 25%;">Total minimum experience of 10 years out of which minimum 5 years experience in relevant field.</td> </tr> </table>	4.	Civil Engineer/ Design Engineer/Geo-technical Engineer / Mechanical Engineer	Graduation in concerned Disciplines	Total minimum experience of 10 years out of which minimum 5 years experience in relevant field.																																																								
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SI. No	Reference	As Existing	As revised now
31.	Volume-1, Part-III – Special Conditions of Contract, SI. No. 3 ( <b>Sub-Clause 4.2 Contractor's Warranty of Design</b> ). Page 2	Replace Para c. with Sub-Para I, ii & iii. with the following: The Contractor further specifies and is deemed to have checked and accepted Contractor's Design for all Temporary and Permanent Works	Deleted
32.	Volume-1, Part-III – Special Conditions of Contract, SI. No. 6 ( <b>Sub-Clause 4.20 Right of Way and Facilities</b> ). Page 3	Replace the first sentence with the following: The Contractor shall acquire and provide land for Right of Way at his cost and expense by removing/rehabilitating the existing dwellers falling within the influence zone for execution of the Temporary and Permanent Works and shall indemnify the Employer against all claims and liabilities of every kind that may arise in this context during execution of Works including Defects Liability Period. For this purpose the Contractor needs to execute an Agreement with those affected dwellers and submit Employer a copy to that effect along with 6 sets of Site Plan after evacuation.	Deleted
33.	Volume-1, Part-III – Special Conditions of Contract, SI. No. 11 ( <b>Sub-Clause 4.14 Setting Out</b> ). Page 6	11.1 The contractor shall survey and fix the alignment, mark pier locations, maintaining vertical & horizontal clearances and keeping in view important site references and obligatory locations in consultation with Engineer. GTS bench mark, temporary bench marks and three control points on all straights & other details shall be handed over by the Engineer.  11.2 The Contractor shall establish at his cost, at suitable points, additional reference lines and bench marks as may be necessary. The Contractor shall remain responsible for the sufficiency and accuracy of all his benchmarks and reference lines. He shall take precautions to see that lines, points and bench marks fixed by the Engineer are not disturbed by his work and shall make good any damage thereto.	11.1 The contractor shall survey and fix the alignment, mark pier locations, maintaining vertical & horizontal clearances and keeping in view important site references and obligatory locations in consultation with Engineer. GTS bench mark, temporary bench marks and three control points on all straights & other details shall be handed over by the Engineer.  11.2 The Contractor shall establish at his cost, at suitable points, additional reference lines and bench marks as may be necessary. The Contractor shall remain responsible for the sufficiency and accuracy of all his benchmarks and reference lines. He shall take precautions to see that lines, points and bench marks fixed by the Engineer are not disturbed by his work and shall make good any damage thereto.  11.3 Contractor shall interact with the construction agency of the previous contract for obtaining the survey & traverse data to match the alignment with as built one
34.	Volume-1, Part-III – Special Conditions of Contract, SI. No. 20 ( <b>Sub-Clause 10.2 Programme of Work</b> ). Page 9	The Contractor shall prepare and submit his detailed Programme of Work so as to achieve key dates of various activities, if any achieved on time. The Contractor shall complete the work in a phased manner fixing priorities to the different stretches of the work to give access to other interfacing contracts as per the requirement of project from time to time and as milestone	The Contractor shall prepare and submit his detailed Programme of Work so as to achieve key dates of various activities, if any achieved on time. The Contractor shall complete the work in a phased manner fixing priorities to the different stretches of the work to give access to other interfacing contracts as per the requirement of project from time to time and as milestone

SI. No	Reference	As Existing	As revised now
		<p>indicated below:</p> <p>Intermediate Milestones:</p> <p><b>(a) For Viaduct</b></p> <p>(i) Partial access to track bed for laying track by track contractor - 11 months</p> <p>(ii) Access to track bed in entire length of viaduct for laying track by track contractor - 15 months</p> <p><b>(b) Cable ducts in Viaduct</b></p> <p>(i) Partial access of track bed to civil contractor from Track contractor for laying of cable ducts - 12 Months.</p> <p>(ii) Final access of Track bed to civil contractor from Track contractor for laying of cable ducts - 16 Months.</p> <p>Completion of laying of cable ducts - 18 Months.</p>	<p>indicated below:</p> <p>Intermediate Milestones:</p> <p><b>(a) For Viaduct</b></p> <p>(i) Partial access to track bed for laying track by track contractor - 15 months</p> <p>(ii) Access to track bed in entire length of viaduct for laying track by track contractor - 18 months</p> <p><b>(b) Cable ducts in Viaduct</b></p> <p>(i) Partial access of track bed to civil contractor from Track contractor for laying of cable ducts - 15 Months.</p> <p>(ii) Final access of Track bed to civil contractor from Track contractor for laying of cable ducts - 18 Months.</p> <p>Completion of laying of cable ducts - 18 Months</p>
35.	<p>Volume-1, Part-III – Special Conditions of Contract, SI. No. 30B (Clause 15.1.1), Page 15</p>	<p>Add the following:</p> <p>The Lump Sum Price of the Tenderer shall also include:</p> <ul style="list-style-type: none"> <li>o Removal and/or rehabilitate, as the case may be, existing dwellers from the site to the extent required from safety point of view to facilitate execution of Work as per rehabilitation plan agreed by the PAPs. All cost towards arrangement of land for construction of permanent works, temporary works, shifting of utilities and resettlement works are also to be incorporated in Lumpsum price.</li> <li>o Shifting of dry utilities like electricity, telephone as per shifting plan and policy approved by utility owing agency/department and shifting of all related structures</li> </ul>	<p>Add the following:</p> <p>The Lump Sum Price of the Tenderer shall also include:</p> <ul style="list-style-type: none"> <li>o Preparation of all existing dry utility plan (both Underground and Overhead) through data collection and trenching. Assist KMRCL in implementing the diversion, as necessary, through the utility owning agency</li> </ul>
36.	<p>Volume-1, Part-IV – General Conditions of Contract, Clause 1 (General Provisions) Sub Cl. 1.4.2, Page 3 of 38</p>	<p><b>1.4.2. Priorities of Documents</b></p> <p>The several documents forming the Contract are to be taken as mutually explanatory of one another. If any inconsistency or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction. For the purpose of interpretation, the priority of documents shall be in accordance with the following sequence:</p> <ol style="list-style-type: none"> <li>a) the Contract Agreement (if completed)</li> <li>b) the Letter of Acceptance.</li> <li>c) the Notice Inviting Tender/Instructions to Tenderers</li> <li>d) Special Conditions of Contract.</li> </ol>	<p><b>1.4.2. Priorities of Documents</b></p> <p>The several documents forming the Contract are to be taken as mutually explanatory of one another. If any inconsistency or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction. For the purpose of interpretation, the priority of documents shall be in accordance with the following sequence:</p> <ol style="list-style-type: none"> <li>a) The Contract Agreement</li> <li>b) The Letter of Acceptance</li> <li>c) The Priced Bill of Quantities</li> <li>d) The Scope of Work attached to NIT</li> </ol>

Sl. No	Reference	As Existing	As revised now
37.	<p>Volume-1, Part-IV – General Conditions of Contract, <b>Clause 4 (Contractor) Sub Cl. 4.2</b>, Page 5 of 38 and</p>	<p>e) General Conditions of Contract f) Drawings g) the Specifications the Schedules and any other document forming part of Contract</p> <p><b>4.2</b> Contractor's Warranty of Design If it is specified in the Contract that the Contractor shall be responsible for part design;</p> <p>a. The Contractor warrants that the Contractor's part of the design (in accordance with Sub-Clause 4.1) meets the specifications provided by the Employer and is fit for the purpose thereof. Where there is any inadequacy, insufficiency, impracticality or unsuitability in or of the specification or any part thereof, the Contractor's part of the design shall take into account, address or rectify such inadequacy, insufficiency, impracticality or unsuitability at Contractor's own cost</p> <p>b. The Contractor shall indemnify the Employer against any damage, expense, liability, loss or claim, which the Employer might incur, sustain or be subject to arising from any breach of the Contractors design responsibility and/or warranty set out in this Clause.</p> <p>c. The Contractor further specifies and is deemed to have checked and accepted full responsibility for the Contractor's part of the design (in accordance with Sub-Clause 4.1)</p> <p>i. Notwithstanding that such design may be or have been prepared, developed or issued by the Employer, any of Contractor's consultants, his sub contractors and/or his qualified personnel/persons or cause to be prepared, developed or issued by others.</p> <p>ii. Notwithstanding any warranties, quarantines and/or indemnities that may be or may have</p>	<p>e) The Outline Design Specifications f) The Tender Drawings g) The Special Conditions of Contract h) The General Conditions of Contract i) The Schedules j) The Contractor's Proposals k) Any other documents forming part of the Contract</p> <p>Without prejudice to the above Priority of Documents the amendment to tender Documents issued through Addenda/Corrigenda shall take priority over Invitation to Tender and Tender Documents.</p> <p><b>4.2</b> Contractor's Warranty of Design If it is specified in the Contract that the Contractor shall be responsible for design;</p> <p>a. The Contractor warrants that the Contractor's design (in accordance with Sub-Clause 4.1) meets the specifications provided by the Employer and is fit for the purpose thereof. Where there is any inadequacy, insufficiency, impracticality or unsuitability in or of the specification or any part thereof, the Contractor's design shall take into account, address or rectify such inadequacy, insufficiency, impracticality or unsuitability at Contractor's own cost</p> <p>b. The Contractor shall indemnify the Employer against any damage, expense, liability, loss or claim, which the Employer might incur, sustain or be subject to arising from any breach of the Contractors design responsibility and/or warranty set out in this Clause.</p> <p>c. The Contractor further specifies and is deemed to have checked and accepted full responsibility for the Contractor's design (in accordance with Sub-Clause 4.1)</p> <p>i. Notwithstanding that such design may be or have been prepared, developed or issued by the Employer, any of Contractor's consultants, his sub contractors and/or his qualified personnel/persons or cause to be prepared, developed or issued by others.</p> <p>ii. Notwithstanding any warranties, quarantines and/or indemnities that may be or may have</p>


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38.	Volume-1, Part-IV – General Conditions of Contract, <b>Clause 15.1.2</b> , Page 29 of 38 and 30 of 38	<p>been submitted by any other person</p> <p>iii. Notwithstanding that the same have been accepted by the Engineer</p> <p>Customs Duty &amp; Central Excise and Value Added Tax</p>	<p>been submitted by any other person</p> <p>iii. Notwithstanding that the same have been accepted by the Engineer</p> <p>Deleted</p>																																										
39.	Volume-3, Bill of Quantities (BOQ) & Schedule of Payment; Preamble Item No. 14, Page 3	<p>This Schedule of Payment is purely for the purpose of releasing 'On Account payments' for the work executed under the 'Lump Sum component' of the work. The work executed against the BOQ items in <b>Schedule B,C and D</b> would be paid on measurement basis. However, works related to removal and/or rehabilitation of existing dwellers from site are not included in Schedule B, C and D. The cost of these works are covered in Schedule A</p>	<p>This Schedule of Payment is purely for the purpose of releasing 'On Account payments' for the work executed under the 'Lump Sum component' of the work. The work executed against the BOQ items in <b>Schedule B,C and D</b> would be paid on measurement basis.</p>																																										
40.	Volume-3, Bill of Quantities (BOQ) & Schedule of Payment; Summary of Schedule A,B,C & D, Page 4	<p>Note: While Quoting Rates the Contractor should include all cost associated as enumerated in Para 2.1.1 of Volume 1, Part I.</p>	<p>Note: Delete</p>																																										
40.	Volume-3, Bill of Quantities; Annexure-1 to Schedule A (Schedule for on Account Payments Lumpsum Portion)	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Item</th> <th>Percentage for the item in the whole viaduct work</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Submission of soil testing report</td> <td>0.75%</td> </tr> <tr> <td>2.</td> <td>Submission of utility identification report at each pier location and submission of utility diversion plan duly approved by the utility owing agency</td> <td>0.25%</td> </tr> <tr> <td>3.</td> <td>Foundation(inclusive of portal foundation and tie beam if required)</td> <td></td> </tr> <tr> <td></td> <td>a. Piling</td> <td>15.0%</td> </tr> <tr> <td></td> <td>b. Pile cap</td> <td>14.0%</td> </tr> <tr> <td>4.</td> <td>Piers including pier cap and crash barrier</td> <td>12.00%</td> </tr> </tbody> </table>	S.No.	Item	Percentage for the item in the whole viaduct work	1.	Submission of soil testing report	0.75%	2.	Submission of utility identification report at each pier location and submission of utility diversion plan duly approved by the utility owing agency	0.25%	3.	Foundation(inclusive of portal foundation and tie beam if required)			a. Piling	15.0%		b. Pile cap	14.0%	4.	Piers including pier cap and crash barrier	12.00%	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Item</th> <th>Percentage for the item in the whole viaduct work</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Submission of soil testing report</td> <td>0.75%</td> </tr> <tr> <td>2.</td> <td>Submission of utility identification report at each pier location and submission of utility diversion plan duly approved by the utility owing agency</td> <td>0.25%</td> </tr> <tr> <td>3.</td> <td>Foundation(inclusive of portal foundation and tie beam if required)</td> <td></td> </tr> <tr> <td></td> <td>a. Piling</td> <td>15.0%</td> </tr> <tr> <td></td> <td>b. Pile cap</td> <td>14.0%</td> </tr> <tr> <td>4.</td> <td>Piers including pier cap and crash barrier</td> <td>12.00%</td> </tr> </tbody> </table>	S.No.	Item	Percentage for the item in the whole viaduct work	1.	Submission of soil testing report	0.75%	2.	Submission of utility identification report at each pier location and submission of utility diversion plan duly approved by the utility owing agency	0.25%	3.	Foundation(inclusive of portal foundation and tie beam if required)			a. Piling	15.0%		b. Pile cap	14.0%	4.	Piers including pier cap and crash barrier	12.00%
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		Completion of Span	For proposal of Superstructure with balance cantilever construction method along with matching side spans	Completion of Span	For proposal of Superstructure with balance cantilever construction method along with matching side spans
5.		a) Balance Cantilever Part	7.0%	a) Balance Cantilever Part	7.0%
		(i) On Completion of 25% of the Total Span Length	7.0%	(i) On Completion of 25% of the Total Span Length	7.0%
		(ii) On Completion of 50 of the Total Span Length	7.0%	(ii) On Completion of 50 of the Total Span Length	7.0%
		(iii) On Completion of 75% of the Total Span Length	7.0%	(iii) On Completion of 75% of the Total Span Length	7.0%
		(iv) On Completion of 100% of the Total Span Length	9.0%	(iv) On Completion of 100% of the Total Span Length	9.0%
		b) Side Spans		b) Side Spans	
		(i) On Completion of 30% of the Total Span Length	4.0%	(i) On Completion of 30% of the Total Span Length	4.0%
		(ii) On Completion of 70% of the Total Span Length	4.0%	(ii) On Completion of 70% of the Total Span Length	4.0%
		(iii) On Completion of 100% of the Total Span Length	4.0%	(iii) On Completion of 100% of the Total Span Length	4.0%
6.		Casting of parapets	2.50%	Casting of parapets	3.0%
7.		Erection of parapets	2.50%	Erection of parapets	3.0%
8.		Bearing-Supply and fixing	3.00%	Bearing-Supply and fixing	3.00%
9.		Completion of the work in all other respects including, railing, earthing arrangements, manholes, drainage system etc.	3.00%	Completion of the work in all other respects including, railing, earthing arrangements, manholes, drainage system etc.	3.00%
10.		Expansion Joints	2.00%	Expansion Joints	2.00%
11.		On clearing of the site in all respects	1.00%	On clearing of the site in all respects	1.00%
12.		Balance payment on	2.0%	Submission of As built Drg.	1.0%

SI. No	Reference	As Existing		As revised now	
		submission of final documents related to the negotiation with the inhabitants under the structures	Total	Total	100%
41.	Volume-4, Safety, Health and Environment Manual (SHE) Clause 23.4 .XIII, KMRCL Condition of Contract on SHE Page-41	Add Xiii (New Clause)	100%	xiii) Vehicle/Equipments with unequal front and rear axle to be used with care so that the rider axle is always at the front while moving.	100%
42.	Volume-4, Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row-2, Column-2, Page-93	1		Refer note 1	
43	Volume-4, Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row-1, Column-3, Page-93	1		Refer note 1	
44.	Volume-4, Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row-1, Column-6, Page-93	1		1 (PT)	
45.	Volume-4, Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row-2, Column-9, Page-93	1		1 (PT)	

Sl. No	Reference	As Existing	As revised now
46.	Volume-4 Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row- 2, Column-10, Page-93	1	1 (PT)
47.	Volume-4, Safety, Health and Environment Manual (SHE) Minimum requirement of SHE Organization based on Contract value, Row- 2, Column-13, Page-93	1	1 (PT)
48.	Volume-4, Safety, Health and Environment Manual (SHE) Heading column 12, Page-93	Junior SHE (Electrical Engineer)	Housekeeping Manager and Supervisor
49.	Volume-4, Safety, Health and Environment Manual (SHE) Row-1 to 6, Column-4, KMRCL Conditions of Contract, Page 93	Refer Note-1	Refer Note-1( Applicable for Row-3 to 6, Column-4)
50.	Volume-4, Safety, Health and Environment Manual (SHE) Row-1 to 6, Column-11, KMRCL Conditions of Contract, Page 93	Refer Note-5	Refer Note-1(Applicable for Row-3 to 6, Column-11)
51.	Volume-4, Safety, Health and Environment Manual (SHE) Page-113, SI No-28, KMRCL Conditions of Contract	Dr. John Antonopoulos, PhD, P. E. CSP American Society of Civil Engineering Certified Safety Professional hellasafety@aol.com 001-718-448-0541  <ul style="list-style-type: none"> <li>• United States OSHA Safety Competent Person Training,</li> <li>• Virtual Safety Training</li> <li>• Safety and Quality Training</li> </ul>	RLI, Kolkata  Laketown Kolkata-89 Phone No-2534-2732/2534-2735 Fax-2534-8182, Email- regi_876109@bsnl.in

SI. No	Reference	As Existing	As revised now
52.	Volume-4, Safety, Health and Environment Manual (SHE) Page-113, SI No-29, KMRCL Conditions of Contract	M & M Media, LLC Cincinnati, Ohio 45247, USA Phone: 513 325-0967 Fax: 513 42 9-5 079 Website: <a href="http://superrushenglish.com">superrushenglish.com</a> Email: <a href="mailto:carolina2782@yahoo.com">carolina2782@yahoo.com</a> Specialized on site or online, local and foreign language and safety training, support by a certified OSHA trainer and language specialists.	QMAC Management Consultant New Alipur, Kolkata-53 Phone no-033-66347390
53.	Volume-4, Safety, Health and Environment Manual (SHE) SHE Manual Part-I Clause 4.2.1 page-5 of 76	This manual has been produced in order to outline the minimum health and safety standards that shall be required by KMRCL during the second phase of construction of the East West corridor of Kolkata. Furthermore the manual has been developed to give guidance and assistance to the respective Contractors in the development and production of their Site Safety Plans, to satisfy the required health and safety standards established by the Contract Conditions and the Employer's Requirements. This manual represents the minimum standards required and each Contractor is encouraged to expand and improve upon it.	This manual has been produced in order to outline the minimum health and safety standards that shall be required by KMRCL during Construction of the East West corridor of Kolkata. Furthermore the manual has been developed to give guidance and assistance to the respective Contractors in the development and production of their Site Safety Plans, to satisfy the required health and safety standards established by the Contract Conditions and the Employer's Requirements. This manual represents the minimum standards required and each Contractor is encouraged to expand and improve upon it.
54.	Volume-4, Safety, Health and Environment Manual (SHE) SHE Manual Part-I Clause 11.4 page -17 of 76, last para.	A reportable accident is a Fatality, a Major Injury Accident as defined in 9.4.1, and reportable accidents as defined in 9.2.1	A reportable accident is a Fatality, a Major Injury Accident as defined in 3.1.1, and reportable accidents as defined in 9.2.1
55.	Volume-4, Safety, Health and Environment Manual (SHE) SHE Manual Part-I Clause 13.1.1.(a) page - 21 of 76.	An Accident Which Results In Death or Major Injury. ( Major Injury as defined in Section 9.1.7)	An Accident Which Results In Death or Major Injury. ( Major Injury as defined in Section 3.1.1)

  
**Chief Engineer (**  
**Kolkata Metro Rail Corp**



**FINANCIAL DATA**

(Refer Clause 9.2)

**Total value of construction work done during the last Seven Financial years (For each member in case of Group):**

S. No	Description	Year 2008-09 (Rs. in Crore)		Year 2009-10 (Rs. in Crore)		Year 2010-11 (Rs. in Crore)		Year 2011-12 (Rs. in Crore)		Year 2012-13 (Rs. in Crore)	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Original Value as per Audited balance sheet	Updated value after considering the escalation	Original Value as per Audited balance sheet	Updated value after considering the escalation	Original Value as per Audited balance sheet	Updated value after considering the escalation	Original Value as per Audited balance sheet	Updated value after considering the escalation	Original Value as per Audited balance sheet	Updated value after considering the escalation
1.	Total value of Construction work done										

- i. Attach attested copies of the Audited Financial Statements of the last five financial years as Annexures. Financial Values to be given in Crores of Rupees.
- ii. Updated values upto 31/03/2013 price level, assuming 5% inflation for Indian Rupees every year and 2 % for foreign currency portions per year.
- iii. This sheet should be certified by Company Auditor/ Chartered Accountant along with his signature and seal in original.