

## P1UGC-02 – Corrigendum III – Annexure A

**Name of Project:** Design and Construction of Underground Stations at Budhwar Peth, Mandai and Swargate and Associated Tunnels on the North-South Corridor of Pune Metro Rail Project.

**Tender No.:** P1UGC-02/2018

**Tender Portal No.** 138

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
1.	Part – 1	Section III Eligibility & Qualification criteria	4.2 (a) – Specific Experience	<p>Experience under contracts in the role of contractor (single entity or JV member) for design and construction of underground stations and tunnel including finishes. The Applicant must meet the following eligibility criteria for being considered as qualified in Technical evaluation and become eligible for financial package opening.</p> <p>In case the Applicant is a JV, the JV member shall satisfy the eligibility criteria a1 or a2 or a3 mentioned below either individually or as a JV member whose participation was a minimum 25% in the previous group either in tunnelling or in construction of underground metro station.</p> <p><b>a1.</b> The Bidder during last <b>five (5) years</b> (Since 1<sup>st</sup> Jan 2013) should have carried out design and construction of tunnel by <b>TBM shield (EPB/Slurry)</b> method for length of at least <b>4000 meters</b> of <b>5 meter minimum finished diameter</b> in <b>Single contract</b> in <b>Urban area</b>.</p> <p>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02), the bidder during last <b>five (5) years</b> (Since 1<sup>st</sup> Jan 2013) should have carried out design and construction of tunnel by <b>TBM shield (EPB/Slurry)</b> method for length of at least <b>8000 meters</b> of <b>5 meter minimum finished diameter</b> in <b>Single contract</b> in <b>Urban area</b>.</p> <p><b>a2.</b> The Bidder during last five (5) years (Since 1<sup>st</sup> Jan 2013) should have carried out design and construction of at least Two Underground metro stations including RCC diaphragm walls/Secant/ continuous Pile walls and similar activities of work.</p> <p><b>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02),</b> the bidder during last five (5) years (Since 1<sup>st</sup> Jan 2013) should have carried out design and construction of at least Four Underground metro stations including RCC diaphragm walls/Secant/ continuous Pile walls and similar activities of work <sup>(ix)</sup></p> <p><b>a3.</b> In case of JV Foreign member should have minimum number of One (1) similar contract of value not less than <b>INR 4608 Million</b> or more that has/have been satisfactorily completed outside the country of origin as a contractor (single entity or JV member) in the last five years from 1<sup>st</sup> January 2013.</p> <p><b>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02),</b> JV Foreign member should have minimum number of One (1) similar contract of value not less than <b>INR 9108 Million</b> or more that has/have been satisfactorily</p>	<p>Experience under contracts in the role of contractor (single entity or JV member) for design and construction of underground stations and tunnel including finishes. The Applicant must meet the following eligibility criteria for being considered as qualified in Technical evaluation and become eligible for financial package opening.</p> <p>In case the Applicant is a JV, the JV member shall satisfy the eligibility criteria a1 or a2 or a3 mentioned below either individually or as a JV member whose participation was a minimum 25% in the previous group either in tunnelling or in construction of underground metro station.</p> <p><b>a1.</b> The Bidder during last <b>Seven (7) years</b> (Since 1<sup>st</sup> Jan 2011) should have carried out design and construction of tunnel by TBM shield (EPB/Slurry) method of 5 meter minimum finished diameter in Urban area for length of:</p> <p><b>For single Contract Package (UGC-02):</b> At least 4000 meters in Single contract.</p> <p><b>For both the Contract Packages combined (UGC-01 and UGC-02):</b> At least 8000 meters either in <b>one contract or in two contracts combined</b>.</p> <p><b>a2.</b> The Bidder during last <b>Five (5) years</b> (Since 1<sup>st</sup> Jan 2013) should have carried out design and construction of Underground metro stations including RCC diaphragm walls/Secant/ contiguous Pile walls and similar activities of work.</p> <p><b>For single Contract Package (UGC-02):</b> At least 2 (Two) Underground Metro Stations</p> <p><b>For both the Contract Packages combined (UGC-01 and UGC-02):</b> At least 4 (Four) Underground Metro Stations</p> <p><b>a3.</b> In case of JV Foreign member should have been satisfactorily completed outside the country of origin as a contractor (single entity or JV member) in the last <b>Five (5) years</b> (Since 1<sup>st</sup> Jan 2013) minimum number of One (01) similar contract of value not less than:</p> <p><b>For single Contract Package (UGC-02):</b> INR 4608 Million</p> <p><b>For both the Contract Packages combined (UGC-01 and UGC-02):</b></p>

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				Completed outside the country of origin as a contractor (single entity or JV member) in the last five years from 1 <sup>st</sup> January 2013. (ix).	INR 9108 Million <b>Note: The combined criteria requirement (UGC-01 and UGC-02) are only relevant to that specific bidder, who would be L1 bidder of UGC-01 and in case also submitting its bid in Tender No. UGC-02. In all other cases ( i.e., for all other bidders), the single contract EQC criteria are applicable.</b>
2.	Part - 1	SECTION III: EQC	6. Sub-contractors 6.1 Nominated/ Specialized Subcontractors	1) The nominated/ Specialized subcontractor during last five (5) years (Since 1 <sup>st</sup> Jan 2013) should have carried out tunnelling by NATM of minimum length 100m in urban area and minimum cross sectional area of 35 Sqm in a single contract in urban environment.	1) Deleted from Eligibility and Qualification criteria and added into PCC Cl. 4.4.2 (Refer S. No. 25 below)
3.	Part - 1	Section III Eligibility & Qualification criteria	8. Plant & Machinery: S. No. 1	Tunnel boring Machine ( <b>New</b> ) (Machine shall be capable of changing from open to close mode) – <b>2 Nos</b>	Tunnel boring Machine – Minimum 2 Nos (Refer Cl. 3.6.3, Tunnel Boring Machine – Machine Requirements of Section VII – ODS, S.03)  <u>Criteria for Refurbished TBM(s):</u> “The TBM should not be more than 4 years old and not have carried out the tunnel boring for more than 4kms and not used in more than 1 project. The Refurbished TBM(s) to be certified by the Original Equipment Manufacturer (OEM) for its fitness and capability of carrying out tunnel boring in Pune considering all the geological conditions. OEM shall provide minimum 3 years warranty from starting date of Initial drive at site as certified by Engineer. Warranty should be for satisfactory performance of the New / Refurbished TBM(s) and ensure compliance with the relevant international standards and specifications included in the contract.”
4.	Part - 1	Section III EQC.	7. Key Personnel	<b>(x) Engineering Manager: BE/ B Tech in Civil Engineering with 15 years total experience and 6 years in Design of similar works.</b>  <b>(xii) Lead Design Consultant &amp; Lead Design Checker:</b> The requirement is one Lead Design consultant & lead design checker respectively having minimum ME/M Tech in Civil Engineering with 15 years of total experience and 6 years in projects of similar nature and 3 years in similar post or kin of.	<b>(x) Chief Design Coordinator : BE/ B Tech in Civil Engineering with minimum overall 15 years Design experience and 6 years in Design of similar works.</b>  <b>(xii) Lead Design Consultant:</b> The Lead Design consultant shall be employee of DDC and will be the team leader of DDC team deployed for this project. He shall have Post graduate degree in Civil – Structural Engineering with minimum 15 years of work experience in designs and 6 years of design experience in projects of similar nature and 3 years in similar position.
5.	Part - 2	Section VI	Section A - General	<b>A2 – Definitions and Interpretations</b> <b>“Design Checker” or “Lead Design Checker”</b> means a suitably qualified person(s) (in house or consulting firm) appointed by the Contractor to check the Design and Temporary Works.	A2 – Definitions and Interpretations <b>“Design Checker (DC)” or “Lead Design Checker (LDC)”:</b> Employer shall engage separate consultant(s) as Design Checker (DC) who will perform the proof checking of all designs produced by contractor’s appointed DDC. Employer has already appointed General Consultant (GC) who shall review the designs after being proof checked by DC. Appointment of DC and GC by the Employer shall not absolve the contractor from his responsibilities of correctness, completeness and adequacy of designs.

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6.	Part -1	Section III EQC	7. Key Personnel: Notes.	3. The proposed Key personnel are not to be changed till the completion of the work. Under exceptional circumstances, in case they are required to be changed, the replacement should have similar or better experience and qualification than as required above. These changes are permitted only with the approval of the Employer.	3. The proposed Key personnel are not to be changed till the completion of the work. Under exceptional circumstances, in case they are required to be changed, the replacement should have similar or better experience and qualification than as required above. These changes are permitted only with the approval of the Employer.  <b>Each change in approved Key personnel will attract penalty of INR 0.10 Million.</b>
7.	Part - 1	Section IV A Bidding Forms	8A. Draft MOU for JV Participation	-	Refer Annexure – 1 for Revised Form – 8 A
8.	Part – 1	Section IVb	1.7.1 Pricing Summary	1.7.1 Pricing Summary	Refer Annexure – 2 for Revised Pricing Summary
9.	Part - 1	SECTION IV a : Bidding Forms	5.8:Form FIN 3.5 – Bid Capacity	-	Refer Annexure – 3 for Form FIN 3.5
10.	Part - 1	SECTION IV a : Bidding Forms	5.9: Form FIN 3.6 – Bidder's Profitability	-	Refer Annexure – 3 for Form FIN 3.6
11.	Part - 1	Section II BDS	ITB 18.5	The prices quoted by the bidder shall not be adjustable as it is a fix priced contract.	The prices quoted by the bidder shall be adjusted pursuant to Clause 13.8 Adjustment for changes in cost (Price Variation) mentioned in Part-3 section X – Particular conditions of contract.
12.	Part – 1	BDS	ITB 11.4.6	Staffing Schedule and Organization Chart (refer Form 4.1 under Section IV a: Bidding Form) i. The Bidder shall submit with his Bid, as per format provided in Section IV a: Bidding Forms a staffing schedule containing the names, qualifications, professional experience and corporate affiliation of all proposed management personnel (above the level of shift supervisor) and specialists for this work. Details shall be included for all such personnel whether directly employed or engaged on a consultancy or advisory basis and whether associated with the design or the construction of the Works. The submission shall include a provisional management structure and organization chart showing areas of responsibility, relative seniorities and lines of reporting. The proposed staffing plan shall in no way be less than the minimum requirement as indicated in Section III: Eligibility and Qualification Criteria. ii. The Bidder shall include his proposals for his Co-ordination & Control Team and include the name and qualifications of the Team Leader responsible for the interface co-ordination with Designated Contractors. iii. The key staff for tunneling shall be from that member of the JV who has the experience of tunneling and on whose experience the JV qualifies the criteria of work experience and if the JV qualifies on the credentials of work eligibility by	Staffing Schedule and Organization Chart (refer Form 4.1 under Section IV a: Bidding Form) i. The Bidder shall submit with his Bid, as per format provided in Section IV a: Bidding Forms a staffing schedule containing the names, qualifications, professional experience and corporate affiliation of all proposed management personnel (above the level of shift supervisor) and specialists for this work. Details shall be included for all such personnel whether directly employed or engaged on a consultancy or advisory basis and whether associated with the design or the construction of the Works. The submission shall include a provisional management structure and organization chart showing areas of responsibility, relative seniorities and lines of reporting. The proposed staffing plan shall in no way be less than the minimum requirement as indicated in Section III: Eligibility and Qualification Criteria. ii. The Bidder shall include his proposals for his Co-ordination & Control Team and include the name and qualifications of the Team Leader responsible for the interface co-ordination with Designated Contractors. iii. The key staff for tunneling shall be from that member of the JV who has the experience of tunneling and on whose experience the JV qualifies the criteria of work experience and if the JV qualifies on the credentials of work eligibility by the foreign member then the Project Manager deployed shall be an expatriate

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				<p>the foreign member then the Project Manager deployed shall be an expatriate having minimum 15 years of total experience out of which 10 years should be in projects of similar nature.</p> <p>In case the successful Bidder is a JV having a foreign member and if the experience of tunneling for the purpose of qualifying the minimum eligibility criteria was fulfilled by the foreign member then the foreign member shall submit an additional Bank Guarantee (In addition to performance security) of an amount equal to 1% of the contract value as per LOA for the fulfillment of the condition of deployment of key staff and the expatriate Project Manager for the project.</p>	<p>having minimum 15 years of total experience out of which 10 years should be in projects of similar nature.</p>																								
13.	Part -1	Section IV b	1.3 Description of Pricing centers	<p>The Pricing Documents comprise Price Centre “A”, which represents “Preliminaries and General Requirements” associated with Price Centres B to G inclusive, and Price Centres “B, C, D, E, F and G” which represent a series of work activities comprising a complete component when Constructed. The Price Centres “H, I, J, K, L &amp; M” are for BOQ based portion of work and shall be paid on the quoted prices of the items accordingly. Price Centre N is for Lump sum provision to be operated for incidental and unforeseen items and Miscellaneous Works likely to be required while execution of work. These items will be operated from any of the latest SOR in the order of PWD Pune Circle, Maharashtra PWD and CPWD schedules as approved by the Engineer. The cost under this Price Centre “N” will stand fixed at INR 50,00,00,000 and this amount of Rupees Fifty Crores already provided as fixed amount in the summary of pricing centres.</p>	<p>The Pricing Documents comprise Price Centre “A”, which represents “Preliminaries and General Requirements” associated with Price Centres B to G inclusive, and Price Centres “B, C, D, E, F and G” which represent a series of work activities comprising a complete component when Constructed. The Price Centres “H, I, J, K, L &amp; M” are for BOQ based portion of work and shall be paid on the quoted prices of the items accordingly. Price Centre N is for Lump sum provision to be operated for incidental and unforeseen items and Miscellaneous Works likely to be required while execution of work. These items will be operated from any of the latest SOR in the order of</p> <p><b>1. PWD Pune Circle,</b> <b>2. Maharashtra PWD,</b> <b>3. Maharashtra Water Supply Board,</b> <b>4. MAHA DISSCOM and</b> <b>5. CPWD schedules</b> as approved by the Engineer.</p> <p>The cost under this Price Centre “N” will stand fixed at INR 50,00,00,000 and this amount of Rupees Fifty Crores already provided as fixed amount in the summary of pricing centres.</p>																								
14.	Part – 1	Section IV b. Pricing document	E 1.1	<table><tr><th>Price Centre</th><th>Description</th><th>Percentage for Sub-Items</th></tr><tr><td>E</td><td colspan="2">Section (1) Tunnel Between Budhwar Peth Station and Swargate Station</td></tr><tr><td>E 1.0</td><td colspan="2">General</td></tr><tr><td></td><td>The design, procurement, delivery of the 2 numbers of Tunnel Boring Machines, plus site assembly of the TBMs at the base of the launching shaft. Design shall include submission of design details and the proposed method of operation of the TBM which shall include an assessment of the impacts of the TBM operation on the environment through which it will pass, including the existing adjacent buildings, structures, water wells, railway facilities, etc. (EBS) Payment on: i) Confirmation of Procurement (30%) ii) Delivery to site (20%)</td><td>10%</td></tr></table>	Price Centre	Description	Percentage for Sub-Items	E	Section (1) Tunnel Between Budhwar Peth Station and Swargate Station		E 1.0	General			The design, procurement, delivery of the 2 numbers of Tunnel Boring Machines, plus site assembly of the TBMs at the base of the launching shaft. Design shall include submission of design details and the proposed method of operation of the TBM which shall include an assessment of the impacts of the TBM operation on the environment through which it will pass, including the existing adjacent buildings, structures, water wells, railway facilities, etc. (EBS) Payment on: i) Confirmation of Procurement (30%) ii) Delivery to site (20%)	10%	<table><tr><th>Price Centre</th><th>Description</th><th>Percentage for Sub-Items</th></tr><tr><td>E</td><td colspan="2">Section (1) Tunnel Between Budhwar Peth Station and Swargate Station</td></tr><tr><td>E 1.0</td><td colspan="2">General</td></tr><tr><td>E 1.1</td><td>The design, procurement, delivery of the 2 numbers of Tunnel Boring Machines, plus site assembly of the TBMs at the base of the launching shaft. Design shall include submission of design details and the proposed method of operation of the TBM which shall include an assessment of the impacts of the TBM operation on the environment through which it will pass, including the existing adjacent buildings, structures, water wells, railway facilities, etc. (EBS) Payment on: i) Confirmation of Procurement (30%) * ii) Delivery to site (20%)</td><td>10%</td></tr></table>	Price Centre	Description	Percentage for Sub-Items	E	Section (1) Tunnel Between Budhwar Peth Station and Swargate Station		E 1.0	General		E 1.1	The design, procurement, delivery of the 2 numbers of Tunnel Boring Machines, plus site assembly of the TBMs at the base of the launching shaft. Design shall include submission of design details and the proposed method of operation of the TBM which shall include an assessment of the impacts of the TBM operation on the environment through which it will pass, including the existing adjacent buildings, structures, water wells, railway facilities, etc. (EBS) Payment on: i) Confirmation of Procurement (30%) * ii) Delivery to site (20%)	10%
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					iii) Full Assembly in position at Site (25%) iv) Trial working (after 20m) (25%)			iii) Full Assembly in position at Site (25%) iv) Trial working (after 20m) (25%)  <b>*Submission of transit Insurance for the same is mandatory.</b>	
15.	Part - 3	Section X PCC	8.3.5	Within 30 days of the date of Notice to Proceed, and thereafter at the end of each calendar month, the Contractor shall submit to the Engineer his Three Month Rolling Programme for each agreed major section of Works in the Contract, in the form and detail prescribed in the Employer's Requirements, setting out the work to be carried out during the following three months.			<b>Within 42 days</b> of the date of Notice to Proceed, and thereafter at the end of each calendar month, the Contractor shall submit to the Engineer his Three Month Rolling Programme for each agreed major section of Works in the Contract, in the form and detail prescribed in the Employer's Requirements, setting out the work to be carried out during the following three months.		
16.	Part - 3	Section X PCC	8.3.1 (First Paragraph)	<b><u>Replace sub clause 8.3 with the following:</u></b> <b><u>8.3.1</u></b> Within 28 days of the date of the letter of acceptance, the Contractor shall submit to the Engineer, for consent, the Detailed Works Programme in the form and content prescribed in the Bidding Documents.			<b><u>Replace sub clause 8.3 with the following:</u></b> <b><u>8.3.1</u></b> Within <b>28 days</b> of the date of the letter of acceptance, the Contractor shall submit to the Engineer, for consent, the <b>Initial Works Programme</b> and within <b>42 days Detailed Works Programme</b> , in the form and content prescribed in the Bidding Documents.		
17.	Part - 3	Section X PCC	18.1	<b><u>Add to Sub-clause 18.1:</u></b> Insurance cover for Contractor's All Risk and other requirements as specified in the GCC to cover 100% of the Total Contract Price and shall be submitted within 28 days from Commencement Date including all other relevant policies.			<b><u>Add to Sub-clause 18.1:</u></b> Contractor shall show evidence of Insurance cover for Contractor's All Risk and other requirements as specified in the GCC to cover 100% of the Total Contract Price within 14 days from the date of commencement and shall submit all relevant policies within 28 days from the Commencement Date. The insurance servicing for all the works related to Pune Metro Rail Project for CAR/TCE/EAR/E.C. insurance is entrusted to "The National Insurance Co. Ltd., Pune Divisional Office-II (270200), Maharaja Smriti, 586, Sadashiv Peth, Laxmi Road Pune-411030" on co-insurance cum-servicing basis in the ratio of 40:60 (Government Insurance Fund @ 40% & National Insurance Company Ltd. @60%). The contractor will have to necessarily avail the insurance service from the above mentioned company office in the pattern mentioned herein.		
18.	Part - 3	Section X PCC	12.3	<b><u>Replace sub-clause 12.3 with the following:</u></b> <b><u>A. Variation in the Bill of Quantities of bid documents</u></b> i. The quantities of items shown in the Bill of Quantities for price centres of Architectural Finishing and Hard Landscaping Works for Budhwar Peth Station, Mandai Station and Swargate Station (Price Centre H, I & J) and Electrical &			Deleted from PCC Cl. 12.3 and added in PCC Cl. 13.3 (Refer S. No. 78 below)		

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				<p>Mechanical works for Budhwar Peth, Mandai &amp; Swargate stations (Price Centre K, L &amp; M) are approximate, and liable to vary during the actual execution of the work. Some items/group of items may have to be altered, added or omitted. The Contractor shall be bound to carry out and complete the stipulated work as instructed by the Engineer, irrespective of the magnitude of variations including additions, alterations or omissions in the Bill of Quantities, individual items or group of items, specified in the Bill of Quantities.</p> <p>ii. Such variations shall be paid as follows:</p> <p>a) At the accepted rates of the Contract for Positive variation in quantities to the extent of 25%, except in the case of foundation works. Unless otherwise specifically provided for in the Bill of Quantities or applicable to a group of items mentioned therein and not to individual items.</p> <p>b) In case of earth work, the aforesaid variation limit of 25% shall apply to the gross quantity of earth work and variation in the quantity of individual classifications of soil will not be subject to this limit where any variation can take place.</p> <p>c) For items against which the quantity given in the Bills of Quantities is “if or as required”, there shall be no increase/decrease of rates whatever be the quantity finally executed.</p> <p>d) Variation in the quantity of items individually costing upto 1% of the total contract value, shall be payable at the rates stated in the Contract notwithstanding the magnitude of variation upto 2% of the original Contract Value for each item.</p> <p>e) In case the variation in individual items or the group of items as stipulated above, is more than 25% on plus side, the rate for the varied quantity beyond 25% shall be negotiated between the Engineer and the Contractor and mutually agreed rates arrived at before actual execution of the extra quantity.</p> <p>f) In case the variation in individual items or the group of items as stipulated above, is more than 25% on plus side, the rate for the varied quantity beyond 25% shall be negotiated between the Engineer and the contractor and the mutually agreed rates arrived at before actual execution of the extra quantity in case Engineer introduces an item for which the Contract does not contain any rates or prices applicable to the varied works, the rate of such items shall be derived, wherever possible, from rate for similar items available in the Bill of Quantities of the accepted Tender. In case this is not possible, the rate maybe decided on the following basis:</p> <p>i. Cost of Materials at current market price, as actually utilised in the final finished Permanent Works, including a reasonable percentage for wastage and transportation.</p> <p>ii. Cost of enabling works if any (unless provided for separately) worked out on the above basis but with less stringent quality. Specifications minus salvage value of serviceable material released after completion of work and cost of material released as scrap.</p> <p>iii. Cost of labour actually used at the site of work at rates under Payment of Minimum Wages Act for the area of work for each category of worker, further enhanced by</p>	

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## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition			Revised Tender Condition		
						<p>3. Capacitor</p> <p>4. Lead Acid Batteries</p> <p>5. AC/DC Rotating Machinery</p> <p>6. Copper Cables</p> <p>All other items of BOQ Schedules K, L &amp; M would be Fixed price rates only and no price variation would applicable on them.</p> <p>The present IEEMA formula is given as under (Only for reference).</p> <p>The PVC would be applied as per the contemporary IEEMA formula.</p> <p><b><u>Variation in length of Tunnel under D&amp; B Portion</u></b></p> <p>The present contract is design and build contract for specified portion of the tunnel. However, during the execution of the work any variation in tunnel length within the range of + or – 10% of tunnel length will be paid as specified under “tunnelling” sub-heading of Price Centre E, F &amp; G, shall be dealt in a proportionate manner of the accepted rate without any liabilities from either parties.</p> <p><b>13.8.2 Price Variation Formula</b></p> <p>Payment as per the Contract shall be subject to adjustment in accordance with the following Price Variation formula, and other terms given herein, to provide for variation in the market rates of inputs like labour, materials and fuel / energy during the currency of the Contract:</p> <p><b>13.8.3 Price Adjustment:</b></p> <p>Contract price shall be adjusted for increase or decrease in rates and prices of labour materials, fuels and lubricants in accordance with the following principles and procedures and as per formula given hereunder.</p> <p><b>Formula for Price variation:</b></p> $V = V_L + V_S + V_C + V_F + V_M$ <p>Where,</p> <p>V = Total adjustment on account of all Components</p> <p>V<sub>L</sub> = Adjustment on account of Labour component</p> <p>V<sub>S</sub> = Adjustment on account of Steel component</p> <p>V<sub>C</sub> = Adjustment on account of Cement component</p> <p>V<sub>F</sub> = Adjustment on account of Fuel / Lubricant component</p> <p>V<sub>M</sub> = Adjustment on account of Construction Machinery and Machine Tools</p>			<p>3. Capacitor</p> <p>4. Lead Acid Batteries</p> <p>5. AC/DC Rotating Machinery</p> <p>6. Copper Cables</p> <p>All other items of BOQ Schedules K, L &amp; M would be Fixed price rates only and no price variation would applicable on them.</p> <p>The present IEEMA formula is given as under (Cl. 13.8.3) (Only for reference). The PVC would be applied as per the contemporary IEEMA formula.</p> <p>The rates and price as per Pricing document shall be applicable till the completion of the Work and will be varied only to the extent of permissible price variation under this Clause. However, this adjustment shall be to the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the Price variation formula, the rates and price in the Pricing Document shall be deemed to include amounts to cover the contingency of such rise or fall of costs.</p> <p><b>13.8.2 Price Variation Formula</b></p> <p>Payment as per the Contract shall be subject to adjustment in accordance with the following Price Variation formula, and other terms given herein, to provide for variation in the market rates of inputs like labour, materials and fuel / energy during the currency of the Contract:</p> <p><b>13.8.3 Price Adjustment:</b></p> <p>Contract price shall be adjusted for increase or decrease in rates and prices of labour materials, fuels and lubricants in accordance with the following principles and procedures and as per formula given hereunder.</p> <p><b>Formula for Price variation:</b></p> $V = V_L + V_S + V_C + V_F + V_M$ <p>Where,</p> <p>V = Total adjustment on account of all Components</p> <p>V<sub>L</sub> = Adjustment on account of Labour component</p> <p>V<sub>S</sub> = Adjustment on account of Steel component</p> <p>V<sub>C</sub> = Adjustment on account of Cement component</p> <p>V<sub>F</sub> = Adjustment on account of Fuel / Lubricant component</p> <p>V<sub>M</sub> = Adjustment on account of Construction Machinery and Machine Tools</p>

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition		Revised Tender Condition	
					<p><b>R:</b> Gross amount of Price variation applicable Items of Schedule of Interim Payment for the Fixed Lump Sum Price Portion and also for the work done out of Miscellaneous works as mentioned in Appendix-B to Annexure-ITT-2. Certified by the Engineer for the work under consideration, after excluding the cost of any materials supplied free or at fixed rate to the Contractor if any.</p> <p><b>Adjustment for labour Component:</b> Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with following formula.  <math display="block">V_L = 0.85 \times P_L / 100 \times R_x (L_i - L_o) / L_o</math> Where,  <math>V_L</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for local labour;  <math>L_o</math> = The consumer price index for industrial workers for Pune as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin/ Labour bureau, Government of India.  <math>L_i</math> = The consumer price index for industrial workers for Pune for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI Bulletin /labour bureau, Government of India.  <math>P_L</math> = Percentage of labour components of the work i.e. <b>22</b></p> <p><b>Adjustment for Cement Component:</b> Price adjustment for increase or decrease in the cost of cement components procured by the contractor shall be paid in accordance with following formula.  <math display="block">V_C = 0.85 \times P_C / 100 \times R_x (C_i - C_o) / C_o</math> Where  <math>V_C</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for cement;  <math>C_o</math> = The all India wholesale price index for cement (Ordinary Portland cement) as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin, Government of India.  <math>C_i</math> = The all India wholesale price index for cement (Ordinary Portland cement) for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI Bulletin, Government of India.  <math>P_C</math> = Percentage of cement components of the work i.e. <b>15</b></p> <p><b>Adjustment for Fuel and Lubricant components:</b></p>		<p><b>R:</b> Gross amount of Price variation applicable Items of Schedule of Interim Payment for the Fixed Lump Sum Price Portion and also for the work done out of Miscellaneous works as mentioned in Appendix-B to Annexure-ITT-2. Certified by the Engineer for the work under consideration, after excluding the cost of any materials supplied free or at fixed rate to the Contractor if any.</p> <p><b>Adjustment for labour Component:</b> Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with following formula.  <math display="block">V_L = P_L / 100 \times R_x (L_i - L_o) / L_o</math> Where,  <math>V_L</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for local labour;  <math>L_o</math> = The consumer price index for industrial workers for Pune as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin/ Labour bureau, Government of India.  <math>L_i</math> = The consumer price index for industrial workers for Pune for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI Bulletin /labour bureau, Government of India.  <math>P_L</math> = Percentage of labour components of the work i.e. <b>22</b></p> <p><b>Adjustment for Cement Component:</b> Price adjustment for increase or decrease in the cost of cement components procured by the contractor shall be paid in accordance with following formula.  <math display="block">V_C = P_C / 100 \times R_x (C_i - C_o) / C_o</math> Where  <math>V_C</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for cement;  <math>C_o</math> = The all India wholesale price index for cement (Ordinary Portland cement) as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin, Government of India.  <math>C_i</math> = The all India wholesale price index for cement (Ordinary Portland cement) for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI Bulletin, Government of India.  <math>P_C</math> = Percentage of cement components of the work i.e. <b>15</b></p> <p><b>Adjustment for Fuel and Lubricant components:</b></p>

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition		Revised Tender Condition	
					<p>Price adjustment for increase or decrease in the cost of Fuel and Lubricants shall be paid in accordance with following formula.</p> <p><math>V_F = 0.85 \times P_F / 100 \times R \times (F_i - F_o) / F_o</math>, Where,</p> <p><math>V_F</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for Fuel and Lubricants</p> <p><math>F_o</math> = The official RBI indices as applicable on the date 28 days prior to the latest date of submission of the tender.</p> <p><math>F_i</math> = The official RBI indices as applicable on 1<sup>st</sup> day of the 'month under consideration'.</p> <p><math>P_F</math> = Percentage of Fuel components of the work i.e. <b>10</b></p> <p><b>Adjustment for Plant and Machinery Spares Components:</b></p> <p>Price adjustment for increase or decrease in the cost of plant and machinery spares shall be paid in accordance with following formula.</p> <p><math>V_M = 0.85 \times P_M / 100 \times R \times (P_i - P_o) / P_o</math>, Where,</p> <p><math>V_M</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for plant and machinery spares.</p> <p><math>P_o</math> = The all India wholesale price index for construction machinery and parts as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin Government of India</p> <p><math>P_i</math> = The all India wholesale price index for construction machinery and parts for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI, Government of India</p> <p><b>PM</b> = Percentage of Plant and Machinery Spares components of the work i.e. <b>18</b></p> <p><b>Adjustment for Steel Component :</b></p> <p>Price adjustment for increase or decrease in the cost of Steel shall be paid in accordance with following formula.</p> <p><math>VS = 0.85 \times P_s / 100 \times R \times (Si - So) / So</math>, Where,</p> <p><math>V_s</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for Structural Steel / TMT rebars / MS Steel.</p> <p><math>So</math> = RBI indices for Mild steel long -products(inclusive of ED, Cess, ST and Layout charges) applicable as on the date 28 days prior to the latest date of submission of the tender.</p> <p><math>Si</math> = RBI indices for Mild steel long -products for the 1st day of the month preceding the 'month under consideration'</p>		<p>Price adjustment for increase or decrease in the cost of Fuel and Lubricants shall be paid in accordance with following formula.</p> <p><math>V_F = P_F / 100 \times R \times (F_i - F_o) / F_o</math>, Where,</p> <p><math>V_F</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for Fuel and Lubricants</p> <p><math>F_o</math> = The official RBI indices as applicable on the date 28 days prior to the latest date of submission of the tender.</p> <p><math>F_i</math> = The official RBI indices as applicable on 1<sup>st</sup> day of the 'month under consideration'.</p> <p><math>P_F</math> = Percentage of Fuel components of the work i.e. <b>10</b></p> <p><b>Adjustment for Plant and Machinery Spares Components:</b></p> <p>Price adjustment for increase or decrease in the cost of plant and machinery spares shall be paid in accordance with following formula.</p> <p><math>V_M = P_M / 100 \times R \times (P_i - P_o) / P_o</math>, Where,</p> <p><math>V_M</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for plant and machinery spares.</p> <p><math>P_o</math> = The all India wholesale price index for construction machinery and parts as available on the date 28 days prior to the latest date of submission of the tender as published in RBI Bulletin Government of India</p> <p><math>P_i</math> = The all India wholesale price index for construction machinery and parts for the 1<sup>st</sup> day of the month preceding the 'month under consideration' as published in RBI, Government of India</p> <p><b>PM</b> = Percentage of Plant and Machinery Spares components of the work i.e. <b>18</b></p> <p><b>Adjustment for Steel Component :</b></p> <p>Price adjustment for increase or decrease in the cost of Steel shall be paid in accordance with following formula.</p> <p><math>VS = P_s / 100 \times R \times (Si - So) / So</math>, Where,</p> <p><math>V_s</math> = Increase or decrease in the cost of work during the month under consideration due to change in rates for Structural Steel / TMT rebars / MS Steel.</p> <p><math>So</math> = RBI indices for Mild steel long -products(inclusive of ED, Cess, ST and Layout charges) applicable as on the date 28 days prior to the latest date of submission of the tender.</p> <p><math>Si</math> = RBI indices for Mild steel long -products for the 1st day of the month preceding the 'month under consideration'</p>

S. No	Part	Section	Clause No.	Existing Tender Condition		Revised Tender Condition	
					<p><b>Ps = Percentage of Steel Components of the work i.e. 20</b></p> <p><b>Adjustment for Battery Charger Equipment</b></p> $P = \frac{P_0}{100} \left( 20 + 50 \frac{IN-BTR-CHRG}{IN_0-BTR-CHRG} + 30 \frac{W}{W_0} \right)$ <p><b>Wherein,</b>  <b>P=</b> Price payable as adjusted in accordance with the above formula.  <b>P<sub>0</sub></b> = Price quoted/confirmed.  <b>IN<sub>0</sub>-BTR-CHRG=</b> Index number for battery charger equipment based on relative prices and weightages(as given in brackets) of C.C. copper rods(30), electrical steel <b>laminations</b>(10) and whole-sale price index of 'Iron and Steel'(10),calculated considering their values as on 1<sup>st</sup> June 2000 as base equal to 100.  <b>W<sub>0</sub></b>= All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India(Base 1982=100)  <b>IN-BTR-CHRG=</b> Index number for battery charger equipment based on relative prices and weightages(as given in brackets) C.C. copper rods(30), electrical steel laminations(10) and whole-sale price index of 'Iron and Steel'(10),calculated considering their values as on 1st June 2000 as base equal to 100.  <b>W=</b> All India average consumer price index number for industrial workers(base 1982=100) as published by labour Bureau, Ministry of Labour Govt of India.</p> <p><b>Adjustment for Capacitors</b></p> $P = \frac{P_0}{100} \left( 18 + 16 \frac{CO}{CO_0} + 17 \frac{AF}{AF_0} + 26 \frac{BO}{BO_0} + 23 \frac{W}{W_0} \right)$ <p><b>Wherein,</b>  <b>P =</b> Price payable as adjusted in accordance with the above formula.  <b>P<sub>0</sub></b> = Price quoted/confirmed.  <b>CO<sub>0</sub></b> = Price of Non-PCB Condenser Oil. This price is as applicable for the month, one month prior to the date of tendering.  <b>AF<sub>0</sub></b>= Average LME settlement price of Aluminium. This price is applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.</p>		<p><b>Ps = Percentage of Steel Components of the work i.e. 20</b></p> <p><b>Adjustment for Battery Charger Equipment</b></p> $P = \frac{P_0}{100} \left( 20 + 50 \frac{IN-BTR-CHRG}{IN_0-BTR-CHRG} + 30 \frac{W}{W_0} \right)$ <p><b>Wherein,</b>  <b>P=</b> Price payable as adjusted in accordance with the above formula.  <b>P<sub>0</sub></b> = Price quoted/confirmed.  <b>IN<sub>0</sub>-BTR-CHRG=</b> Index number for battery charger equipment based on relative prices and weightages(as given in brackets) of C.C. copper rods(30), electrical steel <b>laminations</b>(10) and whole-sale price index of 'Iron and Steel'(10),calculated considering their values as on 1<sup>st</sup> June 2000 as base equal to 100.  <b>W<sub>0</sub></b>= All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India(Base 1982=100)  <b>IN-BTR-CHRG=</b> Index number for battery charger equipment based on relative prices and weightages(as given in brackets) C.C. copper rods(30), electrical steel laminations(10) and whole-sale price index of 'Iron and Steel'(10),calculated considering their values as on 1st June 2000 as base equal to 100.  <b>W=</b> All India average consumer price index number for industrial workers(base 1982=100) as published by labour Bureau, Ministry of Labour Govt of India.</p> <p><b>Adjustment for Capacitors</b></p> $P = \frac{P_0}{100} \left( 18 + 16 \frac{CO}{CO_0} + 17 \frac{AF}{AF_0} + 26 \frac{BO}{BO_0} + 23 \frac{W}{W_0} \right)$ <p><b>Wherein,</b>  <b>P =</b> Price payable as adjusted in accordance with the above formula.  <b>P<sub>0</sub></b> = Price quoted/confirmed.  <b>CO<sub>0</sub></b> = Price of Non-PCB Condenser Oil. This price is as applicable for the month, one month prior to the date of tendering.  <b>AF<sub>0</sub></b>= Average LME settlement price of Aluminium. This price is applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.</p>

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					<p><b>BO<sub>0</sub></b> = Price of BOPP Film. This price is applicable for the month, one month prior to the date of tendering</p> <p><b>W<sub>0</sub></b> = All India average consumer price index number of industrial workers, as published by the Labour Bureau, Ministry of labour, Govt. of India(Base 2001=100). This index number is as applicable on the first working day of the month, three months prior to the date of tendering.</p> <p><b>CO</b> = Price of Non-PCB Condenser Oil. This price is as applicable for the month, one month prior to the date of delivery.</p> <p><b>AF</b> = Average LME settlement price of Aluminium. This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of delivery.</p> <p><b>Adjustment for Lead Acid Batteries</b></p> $P = P_0/100 \left[ 60+40 LD/LD_0 \right]$ <p>Where,</p> <p><b>P</b> = Price payable as adjusted in accordance with the above formula</p> <p><b>P<sub>0</sub></b> = Price quoted/confirmed</p> <p><b>LD</b> = Price of lead ingot. This price is applicable on the first working day of the month, one month prior to the date of delivery.</p> <p><b>LD<sub>0</sub></b> = Price of lead ingot. This price is as applicable on the first working day of the month, one month prior to the date of tender opening.</p> <p><b>Adjustment for AC/DC ROTATIONG MACHINERY</b></p> <p>(A) For rotating Machines up to frame size 315.</p> $P = \frac{P_0}{100} \left( 16 + 14 \frac{C}{C_0} + 24 \frac{S}{S_0} + 18 \frac{IS}{IS_0} + 8 \frac{PV}{PV_0} + 20 \frac{W}{W_0} \right)$ <p>(B) For rotating Machines of frame size 355 and above.</p> $P = \frac{P_0}{100} \left( 16 + 24 \frac{C}{C_0} + 20 \frac{S}{S_0} + 7 \frac{IS}{IS_0} + 8 \frac{PV}{PV_0} + 25 \frac{W}{W_0} \right)$ <p>Wherein,</p> <p><b>P</b> = price payable as adjusted in accordance with the above formula.</p> <p><b>P<sub>0</sub></b> = Price quoted/confirmed.</p> <p><b>C<sub>0</sub></b> = Average LME settlement price of copper wire bars. This price is as applicable for the month, two months prior to the date of tendering.</p>		<p><b>BO<sub>0</sub></b> = Price of BOPP Film. This price is applicable for the month, one month prior to the date of tendering</p> <p><b>W<sub>0</sub></b> = All India average consumer price index number of industrial workers, as published by the Labour Bureau, Ministry of labour, Govt. of India(Base 2001=100). This index number is as applicable on the first working day of the month, three months prior to the date of tendering.</p> <p><b>CO</b> = Price of Non-PCB Condenser Oil. This price is as applicable for the month, one month prior to the date of delivery.</p> <p><b>AF</b> = Average LME settlement price of Aluminium. This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of delivery.</p> <p><b>Adjustment for Lead Acid Batteries</b></p> $P = P_0/100 \left[ 60+40 LD/LD_0 \right]$ <p>Where,</p> <p><b>P</b> = Price payable as adjusted in accordance with the above formula</p> <p><b>P<sub>0</sub></b> = Price quoted/confirmed</p> <p><b>LD</b> = Price of lead ingot. This price is applicable on the first working day of the month, one month prior to the date of delivery.</p> <p><b>LD<sub>0</sub></b> = Price of lead ingot. This price is as applicable on the first working day of the month, one month prior to the date of tender opening.</p> <p><b>Adjustment for AC/DC ROTATIONG MACHINERY</b></p> <p>(C) For rotating Machines up to frame size 315.</p> $P = \frac{P_0}{100} \left( 16 + 14 \frac{C}{C_0} + 24 \frac{S}{S_0} + 18 \frac{IS}{IS_0} + 8 \frac{PV}{PV_0} + 20 \frac{W}{W_0} \right)$ <p>(D) For rotating Machines of frame size 355 and above.</p> $P = \frac{P_0}{100} \left( 16 + 24 \frac{C}{C_0} + 20 \frac{S}{S_0} + 7 \frac{IS}{IS_0} + 8 \frac{PV}{PV_0} + 25 \frac{W}{W_0} \right)$ <p>Wherein,</p> <p><b>P</b> = price payable as adjusted in accordance with the above formula.</p> <p><b>P<sub>0</sub></b> = Price quoted/confirmed.</p> <p><b>C<sub>0</sub></b> = Average LME settlement price of copper wire bars. This price is as applicable for the month, two months prior to the date of tendering.</p>

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					<p><b>S<sub>0</sub></b> = Price of electrical steel sheets. This price is as applicable for the month, one month prior to the date of tendering.</p> <p><b>IS<sub>0</sub></b> = Wholesale price index of “Iron and Steel”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of tendering.</p> <p><b>PV<sub>0</sub></b> = Wholesale price index of “paints, varnishes and lacquers”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of tendering.</p> <p><b>W<sub>0</sub></b> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India(Base 1982=100). This index number is as applicable for the month, four months prior to the date of tendering.</p> <p><b>C</b> = Average LME settlement price of copper wire bars. This price is as applicable for the month, three months prior to the date of delivery.</p> <p><b>S</b> = Price of electrical steel sheets. This price is as applicable for the month, two months prior to the date of delivery.</p> <p><b>IS</b> = Wholesale price index of “Iron and Steel”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, five months prior to the date of delivery.</p> <p><b>PV</b> = Wholesale price index of “paints, varnishes and lacquers”. This index number is applicable for the 1<sup>st</sup> Saturday of the month, five months prior to the date of delivery.</p> <p><b>W</b> = All India average consumer price index number for industrial workers, as published by the Labour bureau, Ministry of Labour, Govt. of India(Base 1982=100). This index number is as applicable for the month, five months prior to the date of delivery.</p> <p><b>13.8.4 Period of Work under consideration will mean as under:</b></p> <ol style="list-style-type: none"> <li>In the case of first Interim Payment the period from the Commencement Date to the date of measurement of the first Interim Payment.</li> <li>In the case of second and subsequent Interim Payment and Final Payment, the Period from the date of measurement for previous payment to the date of measurement of that Payment .</li> </ol> <p><b>13.8.5 Procedure in case of Delay in Availability of Final RBI Indices</b> Where the final Price Indices are not available in the Reserve Bank of India Bulletins, while making payment towards Interim Payments payment towards Price Variation will be made on provisional basis based</p>		<p><b>S<sub>0</sub></b> = Price of electrical steel sheets. This price is as applicable for the month, one month prior to the date of tendering.</p> <p><b>IS<sub>0</sub></b> = Wholesale price index of “Iron and Steel”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of tendering.</p> <p><b>PV<sub>0</sub></b> = Wholesale price index of “paints, varnishes and lacquers”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of tendering.</p> <p><b>W<sub>0</sub></b> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India(Base 1982=100). This index number is as applicable for the month, four months prior to the date of tendering.</p> <p><b>C</b> = Average LME settlement price of copper wire bars. This price is as applicable for the month, three months prior to the date of delivery.</p> <p><b>S</b> = Price of electrical steel sheets. This price is as applicable for the month, two months prior to the date of delivery.</p> <p><b>IS</b> = Wholesale price index of “Iron and Steel”. This index number is as applicable for the 1<sup>st</sup> Saturday of the month, five months prior to the date of delivery.</p> <p><b>PV</b> = Wholesale price index of “paints, varnishes and lacquers”. This index number is applicable for the 1<sup>st</sup> Saturday of the month, five months prior to the date of delivery.</p> <p><b>W</b> = All India average consumer price index number for industrial workers, as published by the Labour bureau, Ministry of Labour, Govt. of India(Base 1982=100). This index number is as applicable for the month, five months prior to the date of delivery.</p> <p><b>Adjustment for SWITCHGEAR</b></p> $P = \frac{P_0}{100} \left( 25 + 17 \frac{IS}{IS_0} + 18 \frac{C}{C_0} + 10 \frac{AI}{AI_0} + 13 \frac{In}{In_0} + 17 \frac{W}{W_0} \right)$ <p>Wherein,</p> <p><b>P</b> = Price payable as adjusted in accordance with above formula.</p> <p><b>P<sub>0</sub></b> = Price quoted/confirmed.</p> <p><b>IS<sub>0</sub></b> = Wholesale price index of ‘Iron and Steel’ (base: 1993-94=100). This index is as applicable on the first week ending Saturday of the month, three months prior to the date of tendering.</p> <p><b>C<sub>0</sub></b>= Price of electrolytic copper wore bars. This price is as applicable on the first working day of the month, one month prior to the date of tendering.</p>

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					<p>on the indices available, to be adjusted in subsequent Payment as and when the final Indices figures become available.</p> <p><b>13.8.6 Adjustment on Account of Price Variation</b> Adjustment on account of Price Variations may be positive (in which case extra amount shall be paid to the Contractor), or negative (in which case the amount of Price Variation shall be recovered from the Contractor). Adjustment on account of Price Variation shall be calculated separately, for each period, between two successive dates of measurements for Payments and paid along with each Payment.</p> <p>After verifying the Payment, the Engineer shall certify the adjustment amount and advise the same to the Employer along with the Payment. Should any extra amount be due to Contractor, the Employer shall pay the same as far as possible within 14 days of certification by him or Engineer. Any amount due from Contractor on account of negative adjustment shall be recovered from his pending or other payments at the earliest.</p> <p>No price adjustment shall be payable on the portion of the contract price paid to the Contractor as mobilisation Advance or any other advance, State and Central GST/ basic custom duty and any other Taxes and duties reimbursed.</p> <p><b>13.8.7 Price Variation during Extended Period of Completion</b> The price adjustment as worked out above i.e. either increase or decrease will be applicable up to the stipulated date of completion of the work including the extended period of completion where such extension has been granted under Sub-Clause 8.4.1. However, where extension has been granted under Sub-Clause 8.4.3, price adjustment will be due as follows:</p> <p>In case the indices increase above the indices applicable to a payment made on the last date of original completion period or the extended period under Sub-Clauses 8.4., the price adjustment for the period of extension under PCC Sub-Clause 8.4.3 will be limited to the amount payable as per the indices applicable to a Payment made on the last date of the original completion period or the extended period under PCC Sub-Clauses 8.4.1 as the case may be.</p> <p>In case the indices fall below the indices applicable to a payment made on the last date of the original or extended period of completion, then</p>		<p><b>Al<sub>0</sub></b>= Price of busbar grade aluminium. This price is as applicable on the first working day of the month, one month prior to the date of tendering.</p> <p><b>In<sub>0</sub></b>= Price of Phenolic moulding powder for switchgear and control gear of medium/lower voltage(up to 650 volts) or price of epoxy resin for HT switchgear(above 650 volts).This price is as applicable on the first working day of the month, one month prior to the date of tendering.</p> <p><b>W<sub>0</sub></b>= All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982=100). This index number is as applicable for the month, four months prior to the date of tendering.</p> <p><b>IS</b> = Wholesale price index of 'Iron and Steel' (base: 1993-94=100). This index is as applicable on the first week ending Saturday of the month, four months prior to the date of delivery.</p> <p><b>C</b> = Price of electrolytic copper wire bars. This price is as applicable on the first working day of the month, two months prior to the date of delivery.</p> <p><b>AI</b> = Price of busgrade aluminium. This price is as applicable on the first working day of the month, two months prior to the date of delivery.</p> <p><b>In</b> = Price of phenolic moulding powder for switchgear and control gear of medium/lower voltage (up to 650 volts) or price of epoxy resin for HT switchgear(above 650 volts). This price is as applicable on the first working day of the month, two months prior to the date of delivery.</p> <p><b>W</b> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India.(base 1982=100).This index number is as applicable for the month, five months prior to the date of delivery.</p> <p><b>Adjustment for Copper Conductor PVC insulated 1.1 kV power cables</b></p> $P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - Cc_0) + FeF (Fe - Fe_0) + AIF (AI - AI_0)$ <p>For steel armoured cables; AIF = 0 For aluminium armoured cables; FeF = 0 For unarmoured cables; FeF, AIF = 0</p> <p><b>Tables references:</b></p> <p>CUP    Copper conductor P2     PVC compound P3     Steel armour P4     Aluminium armour CuF = Variation factor for copper</p>

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						<p>the lower indices will be adopted for Price Adjustment for the period of extension under Clause 8.4.3.</p> <p><b>13.8.8. Price Variations for Extra/Varied Item</b></p> <p>Normally, no price variation clause shall be applicable to any extra item/new rates not originally included in the accepted Pricing Document and for which the rates are fixed separately under Clause 12. It shall, however, be open to the Engineer to accept Price Variation clause in such cases where the rates are not based on actuals and the work is likely to continue for more than one year.</p>			<p>Cu = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of delivery.</p> <p>Cuo = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>Cc = Price of PVC compound. This price is as applicable first working day of the month, one month prior to the date of delivery.</p> <p>CCo = Price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>CCFCu = Variation factor for PVC compound/Polymer for copper conductor cable.</p> <p>FeF = Variation factor for steel.</p> <p>FeW = Variation factor for round wire steel armouring.</p> <p>Fe = Price of steel Strips/steel wire. This price is as applicable on the first working day of the month, one month prior to the date of delivery.</p> <p>Feo = Price of steel strips/ steel wire. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p><b>Adjustment for Copper Conductor PVC insulated 1.1 kV control cables</b></p> <p><b><math>P = P_o + CuF (Cu - Cuo) + CCFCu (CC - Cco) + FeF (Fe - Feo)</math></b></p> <p>For unarmoured cables; FeF, AIF = 0</p> <p><b><u>Tables references:</u></b></p> <p>CUC    Copper conductor</p> <p>P5      PVC compound</p> <p>P6      Steel armour</p> <p>CuF = Variation factor for copper</p> <p>Cu = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of delivery.</p> <p>Cuo = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>Cc = Price of PVC compound. This price is as applicable first working day of the month, one month prior to the date of delivery.</p> <p>CCo = Price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>CCFCu = Variation factor for PVC compound/Polymer for copper conductor cable.</p> <p>FeF = Variation factor for steel.</p> <p>FeW = Variation factor for round wire steel armouring.</p>

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							<p>Fe = Price of steel Strips/steel wire. This price is as applicable on the first working day of the month, one month prior to the date of delivery.</p> <p>Feo = Price of steel strips/ steel wire. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p><b>Adjustment for Copper Conductor XLPE insulated 1.1 kV power cables</b>  <math display="block">P = P_o + CuF (Cu - Cuo) + CCFCu (CC - Cco) + FeF (Fe - Feo) + AIF (AI - Alo)</math> </p> <p>For Steel armoured cables; AIF = 0  For aluminium armoured cables; FeF=0  For unarmoured cables; FeF, AIF = 0</p> <p><b>Tables references:</b>  CUC    Copper conductor  L2      Polymer  L3      Steel armour  L4      Aluminium armour  CuF = Variation factor for copper  Cu = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of delivery.  Cuo = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of tendering.  Cc = Price of PVC compound. This price is as applicable first working day of the month, one month prior to the date of delivery.  CCo = Price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of tendering.  CCFCu = Variation factor for PVC compound/Polymer for copper conductor cable.  FeF = Variation factor for steel.  FeW = Variation factor for round wire steel armouring.  Fe = Price of steel Strips/steel wire. This price is as applicable on the first working day of the month, one month prior to the date of delivery.  Feo = Price of steel strips/ steel wire. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p><b>Adjustment for Copper Conductor XLPE insulated 1.1 kV control cables</b>  <math display="block">P = P_o + CuF (Cu - Cuo) + CCFCu (CC - CCo) + FeF (Fe - Feo)</math> </p> <p>For unarmoured cables; FeF = 0</p> <p><b>Tables references:</b></p>

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S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition		
							<p>CUC Copper conductor</p> <p>L5 Polymer</p> <p>L6 Steel armour</p> <p>CuF = Variation factor for copper</p> <p>Cu = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of delivery.</p> <p>Cuo = Price of CC copper rods. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>Cc = Price of PVC compound. This price is as applicable first working day of the month, one month prior to the date of delivery.</p> <p>CCo = Price of PVC compound. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>CCFCu = Variation factor for PVC compound/Polymer for copper conductor cable.</p> <p>FeF = Variation factor for steel.</p> <p>FeW = Variation factor for round wire steel armouring.</p> <p>Fe = Price of steel Strips/steel wire. This price is as applicable on the first working day of the month, one month prior to the date of delivery.</p> <p>Feo = Price of steel strips/ steel wire. This price is as applicable on first working day of the month, one month prior to the date of tendering.</p> <p>The variation factor for copper conductor steel and PVC material to be adopted from the recent IEEMA published tables.</p> <p><b>13.8.4 Period of Work under consideration will mean as under:</b></p> <p>I. In the case of first Interim Payment the period from the Commencement Date to the date of measurement of the first Interim Payment.</p> <p>II. In the case of second and subsequent Interim Payment and Final Payment, the Period from the date of measurement for previous payment to the date of measurement of that Payment.</p> <p><b>13.8.5 Procedure in case of Delay in Availability of Final RBI Indices</b></p> <p>Where the final Price Indices are not available in the Reserve Bank of India Bulletins, while making payment towards Interim Payments payment towards Price Variation will be made on provisional basis based on the indices available, to be adjusted in subsequent Payment as and when the final Indices figures become available.</p>

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						<p><b>13.8.6 Adjustment on Account of Price Variation</b></p> <p>Adjustment on account of Price Variations may be positive (in which case extra amount shall be paid to the Contractor), or negative (in which case the amount of Price Variation shall be recovered from the Contractor). Adjustment on account of Price Variation shall be calculated separately, for each period, between two successive dates of measurements for Payments and paid along with each Payment.</p> <p>After verifying the Payment, the Engineer shall certify the adjustment amount and advise the same to the Employer along with the Payment. Should any extra amount be due to Contractor, the Employer shall pay the same as far as possible within 14 days of certification by him or Engineer. Any amount due from Contractor on account of negative adjustment shall be recovered from his pending or other payments at the earliest.</p> <p>No price adjustment shall be payable on the portion of the contract price paid to the Contractor as mobilisation Advance or any other advance, State and Central GST/ basic custom duty and any other Taxes and duties reimbursed.</p> <p><b>13.8.7 Price Variation during Extended Period of Completion</b></p> <p>The price adjustment as worked out above i.e. either increase or decrease will be applicable up to the stipulated date of completion of the work including the extended period of completion where such extension has been granted under Sub-Clause 8.4.1. However, where extension has been granted under Sub-Clause 8.4.3, price adjustment will be due as follows:</p> <p>In case the indices increase above the indices applicable to a payment made on the last date of original completion period or the extended period under Sub-Clauses 8.4., the price adjustment for the period of extension under PCC Sub-Clause 8.4.3 will be limited to the amount payable as per the indices applicable to a Payment made on the last date of the original completion period or the extended period under PCC Sub-Clauses 8.4.1 as the case may be.</p> <p>In case the indices fall below the indices applicable to a payment made on the last date of the original or extended period of completion, then the lower indices will be adopted for Price Adjustment for the period of extension under Clause 8.4.3.</p> <p><b>13.8.8. Price Variations for Extra/Varied Item</b></p> <p>Normally, no price variation clause shall be applicable to any extra item/new rates not originally included in the accepted Pricing Document and for which the rates are fixed separately under Clause 12. It shall,</p>

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S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition											
					<table><tr><td></td><td></td><td>however, be open to the Engineer to accept Price Variation clause in such cases where the rates are not based on actuals and the work is likely to continue for more than one year.</td></tr></table>			however, be open to the Engineer to accept Price Variation clause in such cases where the rates are not based on actuals and the work is likely to continue for more than one year.								
		however, be open to the Engineer to accept Price Variation clause in such cases where the rates are not based on actuals and the work is likely to continue for more than one year.														
20.	Part - 3	Section X	PCC Clause 2.1 (b) <b>Right of access</b>	Replace 2.1(b) with: The cost of idle labour as per rate of daily wages subject to the assessment and approval of the Engineer.	<p>(i) For land requirement in works area, the Tender Drawings may please be referred. Only to the extent marked/shown in the Tender Drawings land for access will be made available progressively in line with the Contractor’s Programme duly approved by the Employer or actual work progress by the contractor whichever is later. In case there is a delay in handing over land as per physical progress of work, the Contractor is entitled to the following:</p> <table><tr><td>Period of Delay in Handing over</td><td>Extension of time</td><td>Cost compensation for delayed period</td></tr><tr><td>0 to 90 days</td><td>Yes</td><td>No</td></tr><tr><td>Above 90 days</td><td>Yes</td><td>Yes</td></tr></table> <p>(ii) All other land requirements for works area and to enable shifting of utilities are to be managed by the Contractor at his own cost. However, MAHA METRO may assist to the extent possible.</p>	Period of Delay in Handing over	Extension of time	Cost compensation for delayed period	0 to 90 days	Yes	No	Above 90 days	Yes	Yes		
Period of Delay in Handing over	Extension of time	Cost compensation for delayed period														
0 to 90 days	Yes	No														
Above 90 days	Yes	Yes														
21.	Part - 3	Section X – Particular conditions of contract	GCC Cl. 14.7	-	<p><b>PCC – 14.7</b></p> <table><tr><td colspan="2"><b>GCC (FIDIC - Yellow 1999)</b></td><td rowspan="2"><b>Particular conditions of Contract</b></td></tr><tr><td><b>PCC</b></td><td><b>GCC</b></td></tr><tr><td colspan="3"><b>14.7 - Payment</b></td></tr><tr><td>14.7</td><td>14.7</td><td>Payment procedure shall be as under: a) The Contractor shall submit the monthly bill for payment to the Engineer. b) Immediately after the submission of bill 80 % amount of the bill shall be released within 7 working days. c) The remaining 20% of the bill shall be released after detailed scrutiny and subsequent comments / Recommendations by Engineer within 28 days from the date of submission of bill by contractor. d) If any adverse comments regarding the workmanship or the quality of the work done in the previous bill is made by the Engineer then appropriate and suitable amount shall be recovered from successive bills.</td></tr></table>	<b>GCC (FIDIC - Yellow 1999)</b>		<b>Particular conditions of Contract</b>	<b>PCC</b>	<b>GCC</b>	<b>14.7 - Payment</b>			14.7	14.7	Payment procedure shall be as under: a) The Contractor shall submit the monthly bill for payment to the Engineer. b) Immediately after the submission of bill 80 % amount of the bill shall be released within 7 working days. c) The remaining 20% of the bill shall be released after detailed scrutiny and subsequent comments / Recommendations by Engineer within 28 days from the date of submission of bill by contractor. d) If any adverse comments regarding the workmanship or the quality of the work done in the previous bill is made by the Engineer then appropriate and suitable amount shall be recovered from successive bills.
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S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
22.	Part - 3	Section X Particular conditions of contract	14.2 - Advance Payment	<p><b>14.2.3 Recovery of Advances</b>  <b>Mobilization Advance and Advance Against Plant &amp; Machinery:</b>  a. The recovery of the Mobilization and Plant and Machinery advances shall each be made in 24 (Twenty four) equal instalments (once every month) commencing from Sixth month after the payment of advance.  Bank Guarantee shall be submitted as per PCC sub-Clause 11.1, 14.2.1 and 14.2.2 Following the recovery by the Employer, Bank Guarantee may be released to the Contractor at the discretion of the employer.</p>	<p><b>14.2.3 Recovery of Advances</b>  <b>Mobilization Advance and Advance Against Plant &amp; Machinery:</b>  a. The recovery of the Advance Payment shall be done in respective currencies and shall commence when 20% of the original contract value of the work has been paid in respective currencies (in addition to the Mobilization Advance) and shall be recovered by deduction of 25% of the amount of each Interim Payment, until the total of the Mobilization Advance is recovered before payment of 75% of project cost.  Bank Guarantee shall be submitted as per PCC sub-Clause 11.1, 14.2.1 and 14.2.2 Following the recovery by the Employer, Bank Guarantee may be released to the Contractor at the discretion of the employer.</p>
23.	Part - 3	Section X Particular conditions of contract	14.2 - Advance Payment	-	<p><b>14.2.2 (a) Secured Advance for material :</b>  Interest free secured advance for material shall be provided to the Contractor with the following requirements:</p> <ol style="list-style-type: none"> <li>1. It shall be given for Reinforcement steel only.</li> <li>2. It shall be given for permanent works only.</li> <li>3. It shall be given only after the material is brought to site.</li> <li>4. It shall be given upto a maximum of 80% of the Invoice value or the cost of Reinforcement as derived by the Engineer.</li> <li>5. Minimum amount of material advance shall be limited to INR 5 Million.</li> <li>6. Maximum amount of material advance at a time shall be limited to 1.5% of the contract value.</li> <li>7. Contractor has to submit BG for an amount of 110% of Material advance value with validity period of 365 days.</li> <li>8. Material advance shall be recovered in 3 (Three) equal installments from the subsequent 3 (Three) RA Bills.</li> <li>9. Next material advance shall be permitted only after the complete recovery of the previous advance.</li> </ol>
24.	Part – 3	Section – X PCC	14.2.2 Advance against Plant & Machinery	<p><b>14.2.2 Advance against Plant &amp; Machinery</b>  This advance is payable against plant, equipment and machinery excluding, provided the same have reached the site, or in the case TBM or new items meant specifically for the works, firm purchase order has been placed and the invoices received. The plant and machinery shall be valued by the Engineer as follows:  a) New items: 80% of purchase price  b) Used items in working order: 80% of the depreciated value as assessed by the Engineer  c) Items valued at less than Rs. 1,000,000 (Rs. One million) per unit: Not to be considered  The total advance for Plant and Machinery shall be limited to 6% of the Contract Price and will be paid with interest free in Indian Rupees against submission of Bank Guarantees for the like amount as per format given in schedule to PCC from an Indian</p>	<p><b>14.2.2 Advance against Plant &amp; Machinery</b>  This advance is payable against plant, equipment and machinery excluding, provided the same have reached the site, or in the case of new items meant specifically for the works, firm purchase order has been placed and the invoices received. The plant and machinery shall be valued by the Engineer as follows:  a) New items: 80% of purchase price  b) Used items in working order: 80% of the depreciated value as assessed by the Engineer  c) Items valued at less than Rs. 1,000,000 (Rs. One million) per unit: Not to be considered  The total advance for Plant and Machinery shall be limited to <b>3%</b> of the Contract Price and will be paid with interest free in Indian Rupees against submission of Bank Guarantees for the like amount as per format given in schedule to PCC from an Indian Schedule bank</p>

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				Schedule bank (excluding Cooperative Banks) or from a schedule Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Schedule. The Advance against Plant and Machinery will be paid by the Employer within 28 days after receipt of the Contractor's written request with invoices / Letter of credit ( in case of imported) and submission of Bank Guarantees for Advance Payment.	(excluding Cooperative Banks) or from a schedule Foreign Bank as defined in Section 2(e) of RBI Act 1934 read with Second Schedule. The Advance against Plant and Machinery will be paid by the Employer within 28 days after receipt of the Contractor's written request with invoices / Letter of credit ( in case of imported) and submission of Bank Guarantees for Advance Payment.
25.	Part -3	Section X – PCC	4.4 – Subcontractors 4.4.2	-	<b>New Clause 4.4.2</b> The contractor shall submit credentials of proposed specialized subcontractor for NATM works for Employer's approval. Contractor will deploy NATM Subcontractor at site only upon Notice of No objection from Employer's representative.  <u>Eligibility criteria for NATM specialized contractor:</u> The Specialized subcontractor should have carried out tunnelling by NATM of minimum length 100m and minimum cross sectional area of 35 Sqm in a single contract completed between 1 <sup>st</sup> Jan 2011 and bid submission date
26.	Part – 1	Section II – BDS	ITB 42 Notification of Award	-	<b>ITB 42.5 (New Para)</b> The “Letter of Acceptance” will be sent in duplicate to the successful Bidder, who will return one copy to the Employer duly acknowledged and signed by the authorized signatory, <b>within 14 days but no sooner than ten days</b> of receipt of the same by him. The Letter of Acceptance will constitute a part of the contract.
27.	Part – 1	Section II – BDS	ITB 45 Performance Security	-	<b>ITB 45.4 (New Para)</b> The Bidder has to furnish other Guarantees, Undertakings, and Warranties, in accordance with the provisions of the General Conditions of Contract and Particular of the Bid Security.
28.	Part – 1	Section II – BDS	ITB 47 Guarantees and Warranties	-	<b>ITB 47.1 (Additional Para)</b> The Contractor shall submit other all Warranties, Guarantees & Undertakings (as applicable) in accordance with Sub-Clause 4.2.3 of PCC and Section-I ITB and Section XII-Contract form.  <b>ITB 47.2 (New Para)</b> The Bidder shall submit full details of the identity of the proposed parties who would respectively provide or issue: <ul style="list-style-type: none"> <li>the Performance Security in accordance with Sub-Clause 4.2 of the PCC;</li> <li>parent company Undertakings in accordance with Clause 4.2.3 of the PCC;</li> <li>parent company guarantees in accordance with clause 4.2.3 of the PCC;</li> </ul> <b>ITB 47.3 (New Para)</b> The Contractor shall submit other Warranties and Guarantees in accordance with Sub-Clause 4.2.3 of PCC  <b>ITB 47.4 (New Para)</b> If the Bidder comprises a Consortium, a parent company of each Member of such Consortium will be required to execute the Undertakings and Guarantees referred to in sub-paragraphs (b) and (c) of ITB 47.1, ITB 47.2 & ITB 47.3 above.

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					<p><b>ITB 47.5 (New Para)</b> Forms of the above documents are given in the Section XII to the Particular Conditions of Contract.</p> <p><b>ITB 47.6 (New Para)</b> The Contractor should note that all Guarantees, Undertakings and Warranties except Advance Payment Guarantee, Retention Money Guarantee shall be executed prior to signing of the Contract.</p>
29.	Part – 1	Section II – BDS	ITB 48 Insurance		<p><b>ITB 48.1 (New Para)</b> The Bidders' attention is drawn to the provisions contained in Clause 18 of the General Conditions of Contract and Sub-Clause 18.1, 18.3 &amp; 18.5 of Particular Conditions of Contract.</p>
30.	Part - 2	Section VI ER	Appendix – 2B - Key dates	<b>Key Date - Budhwarpeth Station :</b>	Please refer Annexure – 16 for Revised Key date
31.	Part - 2	Section VI	Appendix – 2B - Key dates	<b>Key Date - Mandai Station :</b>	Please refer Annexure – 16 for Revised Key date
32.	Part - 2	Section VI	Appendix – 2B - Key dates	<b>Key Date - Swargate Station :</b>	Please refer Annexure – 16 for Revised Key date
33.	Part - 2	Section VI	Appendix – 2B - Key dates	<b>Tunnel Key Date :</b>	Please refer Annexure – 16 for Revised Key date
34.	Part – 2	Section VI – ER	Appendix 2A, Item 14	<p>(14) Interface Coordination for TBM Operations at Budhwar Peth Station</p> <p>(ii) If the Budhwar Peth station NATM portion is not ready in order to drag TBM (of Package 1) as mentioned above, following could apply based on the agreement in between UGC01 Contractor and Engineer. UGC01 Contractor shall be allowed to bore through the TBM from NATM portion at Budhwar Peth station and retrieve the same from the cut &amp; cover portion of Budhwar Peth station. The UGC02 Contractor shall later dismantle the temporary segment and increase the cavern to suite NATM station requirements. No additional cost shall be paid to the Contractor on account of change in methodology for NATM tunneling operation.</p> <p>(iii) The Contractor (UGC-01) shall be allowed to retrieve the Tunnel Boring Machines from Budhwar Peth station by dragging them back from the contract boundary to suitable point of retrieval as per his convenience. For this purpose the Contractor-UGC-02 shall interface with the UGC-01 Civil Contractor for the design and construction of the facilities that may be required in Budhwar Peth station's temporary and permanent works for enabling UGC-01 contractor ( the Contractor) to break- through, such that all the enabling works and the designs &amp; construction of Budhwar peth station are fully coordinated for ensuring compatibility and meeting construction programmes of the two contractors and as approved by the Engineer. The UGC-02 Contractor shall give UGC-01 Contractor the required access through the station at Budhwar Peth, if required as per the methodology. This access will be</p>	<p>(14) Interface Coordination for TBM Operations at Budhwar Peth Station</p> <p><b>(ii) Deleted</b></p> <p>(iii) The Contractor (UGC-01) shall be allowed to retrieve the Tunnel Boring Machines from Budhwar Peth station by dragging them <b>forward</b> from the contract boundary to suitable point of retrieval <b>in Budhwar Peth Station cut &amp; cover shaft</b>. For this purpose the Contractor-UGC-02 shall interface with the UGC-01 Civil Contractor for the design and construction of the facilities that may be required in Budhwar Peth station's temporary and permanent works for enabling UGC-01 contractor ( the Contractor) to break- through , such that all the enabling works and the designs &amp; construction of Budhwar peth station are fully coordinated for ensuring compatibility and meeting construction programmes of the two contractors and as approved by the Engineer. The UGC-02 Contractor shall give UGC-01 Contractor the required access through the station at Budhwar Peth, if required as per the methodology. This access will be required for all the works associated with the UGC-01 Contractor's TBM retrieval and removal of TBM equipment. The Contractor UGC-02 shall allow for a reasonable duration for the handover period of the work area and access to the station for the Contractor in order for UGC-01 to complete his TBM dismantling and removal, as per the mutually consented methodology of retrieval. This duration shall be coordinated and agreed between the two Contractors, and it will be subject to the Notice of No Objection by the Engineer.</p> <p>(15) Interface Coordination for Sharing Works area and completed works by Advanced</p>

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				<p>required for all the works associated with the UGC-01 Contractor's TBM retrieval and removal of TBM equipment. The Contractor UGC-02 shall allow for a reasonable duration for the handover period of the work area and access to the station for the Contractor in order for UGC-01 to complete his TBM dismantling and removal, as per the mutually consented methodology of retrieval. This duration shall be coordinated and agreed between the two Contractors, and it will be subject to the Notice of No Objection by the Engineer.</p> <p>(15) Interface Coordination for Sharing Works area and completed works by Advanced Contract at Swargate Station (UGC-04) :</p> <p>(i) Swargate station advanced Contract UGC-04 for the construction of temporary works along with the permanent property development work is under progress. UGC-02 Contractor shall coordinate with DDC for UGC03 Contract and give UGC-04 Contract DDC the inputs related to his permanent station scheme.</p>	<p>Contract at Swargate Station (UGC-04) :</p> <p>(i) Swargate station advanced Contract UGC-04 for the construction of temporary works along with the permanent property development work is under progress. UGC-02 Contractor shall coordinate with DDC <b>of UGC04</b> Contract and give UGC-04 Contract DDC the inputs related to his permanent station scheme.</p> <p><b>UGC-02 Contractor shall take over the Swargate station cut &amp; cover box from UGC-04 Contractor for his use and shall carry out all required maintenance including for temporary secant pilling wall, rock surface and instrumentation &amp; monitoring etc..</b></p>
35.	Part - 2	Section VI ER	Section B - Functional	<p><b>B2. Scope of Work</b></p> <p><b>(v)</b> The surplus excavated material (that cannot be used in the Works), shall be treated as Employers property</p> <p>(xiv) Excavation (soil &amp; rock) for Swargate station along with temporary retaining system (struts/anchors) will be done by UGC-04 Contractor. Whereas the Contractor shall maintain this system for the construction period of permanent station structure. Also the construction of pedestrian subways leading to Stations including excavation, temporary support system and the permanent RCC waterproofed wall will be done by UGC-04 Contractor. Contractor shall do the architectural finishes, E&amp;M works as well any ventilation requirements for the same.</p> <p>(xv) Construction of Swargate Station is in scope of this Contract, whereas, a excavation (including rock excavation) and temporary support system for the same will be done by UGC-04 Contractor.</p> <p>(xvi) Structural work for Pedestrian subways shown on Swargate station Tender drawings will also be done by UGC-04 Contractor. This includes excavation, support system and permanent wall construction for pedestrian subways. Whereas, Contractor will have to provide the architectural finishes, E&amp;M and any ventilation requirements for the same</p>	<p><b>B2. Scope of Work</b></p> <p><b>(v)</b> The surplus excavated material (that cannot be used in the Works), shall be treated as <b>Contractor's</b> property (The other requirements related to Muck disposal and aggregate production shall follow in line with S. No. 36 of this corrigendum).</p> <p>(xiv) Excavation (soil &amp; rock) for Swargate station along with temporary retaining system (<b>secant pilling wall</b>/struts/anchors) will be done by UGC-04 Contractor. <b>UGC-02 Contractor shall take over the Swargate station excavated cut &amp; cover box from UGC-04 Contractor for his use and will carry out all required maintenance etc....</b></p> <p><b>The temporary structures including anchor, waler and struts (if any) of cut &amp; cover station shall be removed by UGC02 Contractor with prior approval of the Engineer, and shall be treated as UGC-02 contractor's property.</b></p> <p><b>(xv) Upper part of West side pedestrian subway and Entry 4 shown on Swargate Station Tender drawing is the Contractors scope of work including temporary and permanent support system, architectural and MEP. Contractor shall interface the requirements of future development in to his subway design and construction.</b></p> <p><b>(xvi) East side Pedestrian subways along with remaining part of West side subway including Entry – 1 &amp; Entry – 2 shown on Swargate station Tender drawings will be done by UGC-04 Contractor.</b> This includes excavation, support system and permanent wall construction for pedestrian subways. Whereas, Contractor will have to provide the architectural finishes, E&amp;M and any ventilation requirements for the same</p>
36.	Part - 2	Section VI	D- construction, D3	<p><b>Disposal of Excavated Material (muck/spoil from tunneling and station excavation):</b></p> <p>24. The surplus excavated from the station and NATM tunnels (including cross over, siding tunnel, cross passages) shall be treated as Employers property. Whereas, muck generated from the tunneling operation to be carried out by Tunnel Boring Machine shall be treated as Contractors Property. Method of handling, transportation , place</p>	<p><b>Disposal of Excavated Material (muck/spoil from tunneling and station excavation):</b></p> <p>24. Out of the total excavated quantity from the station and NATM tunnel, the successful bidder shall have to convert the following quantity of rock into aggregates and rubble as stated below:</p> <p>a. 15,000 MT quantity into coarse aggregates (20mm down size) which can be used in concreting works.</p>

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				<p>of storage , any processing/reprocessing at a plant(including its location) and its end use shall comply with all the rules and regulations in force including that pertaining to Occupational Health, Safety &amp; Environment (OHS&amp;E) etc and as approved by the Engineer. The Contractor shall submit a detailed proposal to the Engineer for seeking the Engineer's approval for the same.</p> <p>27. The Employer has identified a muck disposal site located at *** with a disposal volume capacity adequate to dispose of the spoil/muck generated on this Contract package. This site can be utilized by the Contractor for disposing of surplus muck/spoil</p> <p>29. The Contractor shall note that the muck disposal site location designated for this Contract package falls in the semi urban area with reasonable road access. However, if good motorable conditions lack either within the disposal site or its approaches during the course of muck-disposal, any attention needed to these roads to make them worthy of Lorries' movement shall be the Contractor's responsibility.</p> <p>31. Any Octroi, Royalty, statutory payments/levies or any other charges etc. payable on the spoil/muck (generated from the tunnel boring machine operation) for its disposal shall have to be paid by the Contractor.</p> <p>32. Whereas, any Octroi, Royalty, statutory payments/levies or any other charges etc. payable on the spoil/muck (generated from the station, NATM tunnel – as explained above) for its disposal shall also be paid by the Contractor, and will be reimbursed in totality by Employer upon the submission of receipts and necessary documents.</p>	<p>b. 5,000 MT quantity into rubbles which can be used in Random Rubble Masonry.</p> <p>This quantity of aggregate and rubble shall be treated as Employer's property. Maha-Metro shall provide land for stacking the same within a lead of 30 km from the site of excavation of rock. Transportation, loading, unloading, including conversion of this material into aggregates and Rubbles as described above with approved process is the responsibility of Bidder and is included in the bidder's scope of work. Nothing extra shall be payable for this purpose and this is deemed to be included in the lumpsum price of the Contract.</p> <p>The remaining muck/spoil generated from station, tunnel etc shall be treated as Contractor's property. Method of handling, transportation, place of storage, any processing/reprocessing at a plant(including its location) and its end use shall comply with all the rules and regulations in force including that pertaining to Occupational Health, Safety &amp; Environment (OHS&amp;E) etc and as approved by the Engineer. The Contractor shall submit a detailed proposal to the Engineer for seeking the Engineer's approval for the same. The contractor shall utilize good earth/spoil/muck for backfilling operations or as directed by the Employer/Engineer. He shall store the required earth/spoil/muck at his cost at temporary dumping areas and shall be maintained by himself at all times without any cost to employer.</p> <p>27. The Employer will not provide land / space for muck disposal. The Contractor shall make his arrangement at his own cost, which is deemed to be included in the lumpsum price of the Contract. The price shall be inclusive of muck handling, storage, disposal, transportation and any other process related with disposal of the muck. Contractor shall submit the proposal for the muck disposal site within 90 days from the Contract commencement date.</p> <p>29. Deleted.</p> <p>31. All taxes, octroi, royalty, statutory payments/levies and any other charges etc. payable on the spoil/muck / all rock converted into aggregate and rubble for its disposal are to be borne by the Contractor.</p> <p>32. Deleted</p>
37.	Part -2	Section VII – ODS	S.03 – Geotechnical, Bored and NATM tunnels	<p><b>3.6.2 - Tunnel Boring Machine – General</b> (1) The Contractor shall deploy sufficient number of TBMs complete with all backup equipment and spares to complete the Works within the Contract key dates and programme.</p> <p><b>3.6.3 Tunnel Boring Machine – Machine Requirements</b> The TBM shall have, as a minimum, the following facilities. (1) All TBM machines shall be capable of being operated in closed-face mode (wherever ground and groundwater conditions so demand and to comply with all the Contract requirements/provisions), the cutter-head of which shall be capable of clockwise and anticlockwise rotation and shall only be able to excavate the ground whilst the hydraulic rams are being actuated.</p>	<p><b>3.6.2 - Tunnel Boring Machine (TBM) – General</b> (1) The contractor shall deploy minimum of 02 (Two) numbers of TBMs complete with all back-up equipment and spares such that both the machines can be operated concurrently. However, the contractor has to deploy additional TBMs, if required, to complete the work within the completion time.</p> <p><b>3.6.3 Tunnel Boring Machine – Machine Requirements</b> The TBM shall have, as a minimum, the following facilities. (1) All TBM machines shall be capable of being operated in open / closed-face mode (wherever ground and groundwater conditions so demand and to comply with all the Contract requirements/provisions and based on geotechnical Investigations &amp; Design carried out by the contractor), the cutter-head of which shall be capable of clockwise</p>

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					and anticlockwise rotation and shall only be able to excavate the ground whilst the hydraulic rams are being actuated.																								
38.	Part -2	Section VII – ODS	S.02 – Cut & Cover Structure	<b>Clause 2.10.3, Item 2.</b> (2) The piezometric pressure ..... In any case the Groundwater table shall not be allowed to get lowered by more than two (2) metre below the lowest recorded groundwater ..... groundwater control methods.	<b>Clause 2.10.3, Item 2.</b> (2) The piezometric pressure ..... In any case the Groundwater table shall not be allowed to get lowered by more than <b>one (1) metre</b> below the lowest recorded groundwater ..... groundwater control methods.																								
39.	Part - 2	Section VI	Appendix - 19	<b>Interface Sheet - UG Tunnel (UGC-01) and UG Station (UGC-02)</b> <b>UT/US-02:</b> Contract-B shall Design station walls/tunnel face to be compatible with the tunneling scheme and arrangements including any ground treatment of the Contractor-A. Contractor-A TBMs in the <b>Civil Court</b> station.	<b>UT/US-02:</b> Contract-B shall Design station walls/tunnel face to be compatible with the tunneling scheme and arrangements including any ground treatment of the Contractor-A TBMs in the <b>Budhwar Peth</b> station.																								
40.	Part - 2	Section IX	Tender Drawings	<b>Works Area Drawing :</b>  1. Swargate Station - PML1-IC-WA-SWG-0213	<b>Works Area Drawing : Refer Annexure - 4</b>  1. Swargate Station - PML1-IC-WA-SWG-0213-R1																								
41.	Part - 4	Section - XIII	Geotechnical Interpretative Report	<b>Geotechnical Interpretative Report</b>	The title of document shall read as “ <b>Geotechnical Report</b> ”, For additional information refer <b>Annexure - 5</b>																								
42.	Part – 2	Section IX	Tender Drawings	<b>Geotechnical:</b>  1. PML1-IC-GP-UGC-0221 2. PML1-IC-GP-UGC-0222 3. PML1-IC-GP-UGC-0223 4. PML1-IC-GP-UGC-0224 5. PML1-IC-GP-UGC-0225	<b>Geotechnical: Refer Annexure – 6</b>  1. PML1-IC-GP-UGC-0221-R1 2. PML1-IC-GP-UGC-0222-R1 3. PML1-IC-GP-UGC-0223-R1 4. PML1-IC-GP-UGC-0224-R1 5. PML1-IC-GP-UGC-0225-R1																								
43.	Part – 2	Section VII	Composition of Documents – Part IV – Reference Document	<b>Composition of Documents:</b> <table><tr><td>Section XIII</td><td>- Geotechnical Interpretative Report</td></tr><tr><td>Section XIV</td><td>- OHS&amp;E Document</td></tr><tr><td>Section XV</td><td>- Building Condition Survey</td></tr><tr><td>Section XVI</td><td>- Utility Survey</td></tr><tr><td>Section XVII</td><td>- Bore Well Survey</td></tr><tr><td>Section XVIII</td><td>- Tree Cutting Survey</td></tr></table>	Section XIII	- Geotechnical Interpretative Report	Section XIV	- OHS&E Document	Section XV	- Building Condition Survey	Section XVI	- Utility Survey	Section XVII	- Bore Well Survey	Section XVIII	- Tree Cutting Survey	<b>Composition of Documents shall read as:</b> <table><tr><td>Section XIII</td><td>- Geotechnical Interpretative Report</td></tr><tr><td>Section XIV</td><td>- OHS&amp;E Document</td></tr><tr><td>Section XV</td><td>- Deleted</td></tr><tr><td>Section XVI</td><td>- Deleted</td></tr><tr><td>Section XVII</td><td>- Deleted</td></tr><tr><td>Section XVIII</td><td>- Deleted</td></tr></table>	Section XIII	- Geotechnical Interpretative Report	Section XIV	- OHS&E Document	Section XV	- Deleted	Section XVI	- Deleted	Section XVII	- Deleted	Section XVIII	- Deleted
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Section XVIII	- Deleted																												
44.	Part – 2	Section IX	Tender Drawings	Tender Drawings : PML1-IC-ST-CS-0059	Revised Tender Drawings: Refer <b>Annexure - 7</b> 1. PML1-IC-ST-CS-0059-R1																								
45.	Part - 2	Section VI	Appendix - 10	Approved Manufactures/Vendors	Approved Manufactures/Vendors for MEP works shall be as given in <b>Annexure - 8</b>																								
46.	Part - 2	Section IX	Tender Drawings	Tender Drawings Architectural :	Revised Tender Drawings Architectural : <b>Refer Annexure - 9</b>																								

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				<b>Budhwar Peth Station –</b> Street Level Plan - PML1-IC-BDP-ARC-0241 Section - PML1-IC-BDP-ARC-0246 <b>Mandai Station -</b> Street Level Plan - PML1-IC-MND-ARC-0251 sections - PML1-IC-MND-ARC-0254 Mandai entrance 1 - PML1-IC-MND-ARC-0255 <b>Swargate Station -</b> Street Level Plan - PML1-IC-SWG-ARC-0261 concourse level plan - PML1-IC-SWG-ARC-0262	<b>Budhwar Peth Station –</b> Street Level Plan - PML1-IC-BDP-ARC-0241 – R01 Section - PML1-IC-BDP-ARC-0246 – R01 <b>Mandai Station -</b> Street Level Plan - PML1-IC-MND-ARC-0251 – R01 sections - PML1-IC-MND-ARC-0254 – R01 Mandai entrance 1 - PML1-IC-MND-ARC-0255 – R01 <b>Swargate Station -</b> Street Level Plan - PML1-IC-SWG-ARC-0261 – R01 concourse level plan - PML1-IC-SWG-ARC-0262 – R01
47.	Part - 2	Section VI	Section B - Functional	<b>B2 – Scope of Work</b>  <div style="text-align: center;"><b>Complete tender document</b></div>	<b>B2 – Scope of Work:</b> Development of designs and drawings for Architecture, finishing, landscaping, MEP works are not in the scope of Contractor. For development of these designs and drawings, Employer shall engage Design Consultant(s). Development of designs for other than the above works including civil and structures for permanent and temporary works for this contract shall be the responsibility of the contractor.
48.	Part – 2	Section VI – ER	E. Manufacture, Installation & Testing: E 8 – Training and Training Aids	<b>E 8.7 Training Location and Facilities</b> The training shall be carried out at such locations where the greatest benefit for trainees may be gained. This may be in India, abroad, at places of manufacture, assembly or testing, or at such other locations as may be necessary. All places of training shall be subject to the Engineer's Notice. Details of the facilities to be provided shall be included with the detailed training programs submitted by the Contractor.	<b>E 8.7 Training Location and Facilities</b> The training shall be carried out at such locations where the greatest benefit for trainees may be gained. This may be in India, abroad, at places of manufacture, assembly or testing, or at such other locations as may be necessary. All places of training shall be subject to the Engineer's Notice. Details of the facilities to be provided shall be included with the detailed training programs submitted by the Contractor. (i) Contractor shall submit an offshore training programme in relevant areas of design and construction. (ii) The Contractor shall provide overall 25 Man-days of training.
49.	Part - 2	Section VI	ER- B2 – Scope of Works	<b>Clause (xxxii) to (lxxvii) – Design, Manufacture, Supply, Install, Testing &amp; Commissioning.....</b>	The scope to be read as <b>Supply, Install, Testing &amp; Commissioning</b> as MEP design shall be provided by Maha-Metro.
50.	Part - 2	Section VI	ODS- S-05- 5.5.2.2	5.5.2.2 Water Quality This Section specifies the furnishing and installation to complete and operable Reverse Osmosis/Water Softening Plant for cold water for reducing the TDS to below 100 mg/lit so as to generate water fit for drinking purpose and for make-up requirements for Cooling Towers of HVAC system. The Plant should be designed to treat bore well/ municipal supply water (TDS upto 3,000 mg./lit) to yield permeate with TDS less than 100 mg / lit. The raw water analysis report is likely to be: TDS 900 mg/lit Total Hardness (as Ca Co3) 638 mg/lit pH 6.5 to 8.5 Chlorides as Cl. 105 mg/lit Alkalinity (as Ca Co3) 421 mg/lit	In response to the Bidders' query, it is to be clarified that RO plant to be installed for drinking water purpose only. Softening plant to be installed for HVAC requirements & the treated water shall have TDS below 100mg/l & Hardness below 50 mg/l.

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				<p>Sulphates as SO4                      233 mg/lit</p> <p>Coliform                                      Nil</p> <p>E-Coli    Not mentioned</p> <p>Total iron as Fe                      0.6 mg/lit</p> <p>Fluorides                                      7.0 mg/lit</p> <p>Turbidity                                      7.0 NTU</p> <p>Silt Density Index may be assumed to be less than 3.</p> <p>(It is to be noted that the analysis report of tube well bored at the station may vary within wide limits. For this reason it is specified that the R.O/ water softening plant be designed for a TDS upto 3000 mg/lit.</p>	
51.	Part - 2	Section VII	OCS – S.05, 4.5.3.1	<p><b>4.5.3.1 General</b></p> <p>Pumps used for the same function shall be from the same manufacturer.</p> <p>The unit shall be especially selected to meet the project requirements, from reputed manufacturers.</p> <p>The cold water supply pump in this section shall include packaged hydro pneumatic system and water transfer pump set (if applicable).</p> <p>Water Supply Pump-Constant Pressure Booster Pump Set.....</p> <p>.....Pumps shall be selected for a total efficiency of not less than 75 percent and comply with TAC standard</p>	<p><b>4.5.3.1 General</b></p> <p>Pumps used for the same function shall be from the same manufacturer.</p> <p>The unit shall be especially selected to meet the project requirements, from reputed manufacturers.</p> <p>The cold water supply pump in this section shall include packaged hydro pneumatic system and water transfer pump set (if applicable).</p> <p>Water Supply Pump-Constant Pressure Booster Pump Set .....</p> <p>.....<b>Pumps shall be selected for a total efficiency of more than 75 percent and comply with TAC standard.</b></p>
52.	Part - 2	Section IX	Tender Drawings- Drawing No.PML1-IC-GA-PL-0021	<p>NOTES FOR DRAINAGE WORKS :</p> <p>2. PIPE MATERIAL. SANITARY WORKS:</p> <p>b) Earth buried soil, waste, vent and discharge pipe (underground) - Ductile Iron Pipe to IS 8329, Earth buried pipes shall.....</p> <p>e).WASTE PIPE DISCHARGE FROM SINKS, BASINS, ETC. TO FLOOR TRAP / FLOOR WASTE- Copper Pipe to IS 2501</p> <p>NOTES FOR WATER SERVICES:</p> <p>2. PIPE MATERIAL. WATER SERVICES WORKS:</p> <p>c).DISTRIBUTION PIPE (76MM DIA AND BELLOW )- Copper tube to IS 2501</p>	<p>NOTES FOR DRAINAGE WORKS :</p> <p>2. PIPE MATERIAL. SANITARY WORKS:</p> <p>b) Earth buried soil, waste, vent and discharge pipe (underground) - Ductile Iron Pipe to IS 8329, <b>Class K12</b>, Earth buried pipes shall.....</p> <p>e).WASTE PIPE DISCHARGE FROM SINKS, BASINS, ETC. TO FLOOR TRAP / FLOOR WASTE- <b>UPVC Pipes</b></p> <p>NOTES FOR WATER SERVICES:</p> <p>2. PIPE MATERIAL. WATER SERVICES WORKS:</p> <p>c).DISTRIBUTION PIPE (76MM DIA AND BELLOW )- <b>GI Pipes</b></p>
53.	Part - 2	Section VI	ER- B2 – Scope of Works	<p>Design, manufacture, supply, install, testing and commissioning of Power supply arrangement from each LV Switchboard located in Auxiliary Substations (or as required) to their respective Main Distribution Board and to the sub-Main Distribution Board (located in MDB Rooms or as required) through cables/ bus duct on the other end of the platform in order to maintain 100 % redundancy supply, with each MDB designed to cater to 100% load of the station and the corresponding Tunnel Portion, including termination of cables/bus duct at both ends and as per the Contract Stipulations; (All LV switchboards in ASS room including Capacitor Panels is under the scope of TVS/ECS Contractor).</p>	<p>This is to clarify that, Main LV switchboard and main Distribution boards in ASS room including capacitor bank is excluded from the Scope of Work. However sub main distribution Boards, UPS distribution Board, AMF panel etc. (irrespective of their location) is under the scope of supply of contract.</p> <p>A clear demarcation of work is shown in <b>revised drawing no. PML1-IC-GA-IRF-0086 and PML1-IC-GA-EL-0015.</b></p>

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54.	Part - 2	Section IX	Tender Drawings- Drawing No. PML1-IC-GA-PL-0021	<b>Drawing no. PML1-IC-GA-IRF-0086</b> <b>Drawing no. PML1-IC-GA-IRF-0089</b> <b>Drawing no. PML1-IC-GA-IRF-0090</b>	Revision in drawing: drawing no. PML1-IC-GA-IRF-0086 – R1 due to addition of a Note. <b>(Annexure 12)</b> Revised Drawing no. PML1-IC-GA-IRF-0089 – R1 <b>(Annexure 18)</b> Drawing no. PML1-IC-GA-IRF-0090 – <b>Stands deleted.</b>
55.	Part - 2	Section VIII	OCS S.04 4.4.10.4.2	<b>Lamps</b> Lamps shall be of the number and types as calculated/required to meet the specifications All lamps installed shall be new, and shall operate on completion of the job. (1) All lamps of the given type shall be supplied by the same manufacturer. And the basic requirements for each lamp shall be as follows : (a) LEDLEDLED (i) LED lights to be provided shall be of energy efficient, high efficacy type ( > 100100 lumen/watt for) with Colour Rendering Index(CRI) in excess of 80 and colour temperature of 5700±300 <sup>0</sup> K (approximately) unless specified otherwise. (ii) Power factor > 0.95 (iii) Total harmonic distortion of input current (THDI) < 1010% and conforming to IEC 61000-3-2 .....	<b>Lamps</b> Lamps shall be of the number and types as calculated/required to meet the specifications All lamps installed shall be new, and shall operate on completion of the job. (1) All lamps of the given type shall be supplied by the same manufacturer. And the basic requirements for each lamp shall be as follows : (a) LED Lights (i) LED lights to be provided shall be of energy efficient, high efficacy type > <b>120 lumen/watt</b> with Colour Rendering Index(CRI) in excess of 80 and colour temperature of 5700±300 <sup>0</sup> K (approximately) unless specified otherwise. (ii) Power factor > 0.95 (iii) Total harmonic distortion of input current <b>(THDI) &lt; 10%</b> and conforming to IEC 61000-3-2 .....
56.	Part - 2	Section VIII	OCS S.04 4.4.12.2	<b>Standard and Reference</b> The grounding and lightning protection system shall comply with the following codes and standards: (i) IS:3043 Code of Practice for earthing (ii) Indian Electricity Act, 2003 and IE Rules, 1956 as amended (iii) IEEE 80 Guide for Safety in AC Substation Grounding (iv) IS:2309 Amendemnt-1	<b>Standard and Reference</b> The grounding and lightning protection system shall comply with the following codes and standards: (i) IS:3043 Code of Practice for earthing (ii) Indian Electricity Act, 2003 and IE Rules, 1956 as amended (iii) IEEE 80 Guide for Safety in AC Substation Grounding (iv) IS:2309 Amendemnt-1 <b>(v) IEC- 62305</b>
57.	Part - 2	Section IV B	Pricing Document	<b>MEP BOQ and Spare list</b>	<b>Refer Annexure 10 for Revised MEP BOQ along with spare list.</b> Unit Exchange Spares and Mandatory spares need to be quoted. Price of DLP spares shall be assumed to be included in the bid.
58.	Part - 2	Section VII	ODS – S.05, 5.4.1.1.10	<b>(M &amp; E) SCADA interfacing system</b>	This is to clarify that M&E SCADA is in other contractor's scope however all necessary provisioning for I/O points, transducers, sensors etc to be provided under this contract. ODS – S.05, Section 5.8 to be referred for I/O point list.
59.	Part - 2	Section VII	ODS S.05 5.4.3.3	The sub-main distribution panels shall be floor standing, meta-clad in minimum of Form 4b Type 5 in accordance with BS EN 60947-1 & BS 61439-2. These switchboards shall be designed and manufactured in accordance with IEC61439 standard with <b>IP42 for Indoor</b> and IP54 for outdoor protection. All switchboards shall have 20% spare space for providing circuit breakers for future loads installation.	The sub-main distribution panels shall be floor standing, meta-clad in minimum of Form 4b Type 5 in accordance with BS EN 60947-1 & BS 61439-2. These switchboards shall be designed and manufactured in accordance with IEC61439 standard with <b>IP54 for Indoor</b> and IP54 for outdoor protection. All switchboards shall have 20% spare space for providing circuit breakers for future loads installation.
60.	Part - 2	Section VII	ODS S.05 5.4.3.3	<b>Air Circuit Breakers (ACB)</b> The ACBs shall meet the following requirements:	<b>Air Circuit Breakers (ACB)</b> The ACBs shall meet the following requirements:

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				The incomer ACBs and bus-section ACB shall be four-pole type. All ACBs shall be..... ix) Rated working temperature : <b>40 deg. C.</b>	The incomer ACBs and bus-section ACB shall be four-pole type. All ACBs shall be..... ix) Rated working temperature : <b>50 deg. C.</b>
61.	Part - 2	Section VII	ODS S.05 5.4.3.3	<b>Molded Case Circuit Breaker (MCCB)</b> a) All Moulded case circuit breakers shall be 3-pole, rated 415V a.c, 50Hz and shall be manual operated, except MCCB for Essential loads which shall be complete with motor operated, trip free from the handle and provided with adjustable <b>thermal overload</b> and instantaneous magnetic short-circuit protective elements. The MCCB ampere frame rating < 400 AF shall be thermal magnetic trip type and others shall be electronic trip type.	<b>MCCBs of all ratings shall be Microprocessor based.</b>
62.	Part - 2	Section VII	5.4.3.10 Low Voltage cables	<b>XLPE Cable</b> (1) The cables shall be 1100 Volt grade XLPE insulated with PVC inner sheath, steel armouring and with an outer protective sheath of <u>Flame Retardant Low Smoke Zero Halogen type</u> compound, conforming to IS: 7098 (Part I). Cables shall have high conductivity stranded <b>Aluminium or copper conductors</b> and cores colour coded to the Indian Standards. (2) The cable shall be helically wrapped over the insulation and copper shielding with non-hygroscopic Mylar or Polyester tape. (3) The shielding shall be annealed copper tape of suitable width and shall be helically applied over the inner jacket with a minimum 10% lap. The annealed copper tape shall be of at least 0.1mm thickness and substantially free from burrs. (4) Fillers shall be used in the interstice of the multi-core conductor cable where necessary to give the complete cable a substantially circular cross section. Fillers shall be of polypropylene, non-hygroscopic materials.	<b>XLPE Cable</b> (1) The cables shall be 1100 Volt grade XLPE insulated with <b>XLPE inner sheath</b> , steel armouring and with an outer protective sheath of <u>Flame Retardant Low Smoke Zero Halogen type</u> compound, conforming to IS: 7098 (Part I). Cables shall have high conductivity stranded <b>copper conductors</b> and cores colour coded to the Indian Standards. (2) The cable shall be helically wrapped over the insulation and copper shielding with non-hygroscopic Mylar or Polyester tape. (3) The shielding shall be annealed copper tape of suitable width and shall be helically applied over the inner jacket with a minimum 10% lap. The annealed copper tape shall be of at least 0.1mm thickness and substantially free from burrs. (4) Fillers shall be used in the interstice of the multi-core conductor cable where necessary to give the complete cable a substantially circular cross section. Fillers shall be of polypropylene, non-hygroscopic materials.
63.	Part - 2	Section VII	S.05 E&M Works-Station Utilities, Clause 5.4.3.12	<b>Interface Terminal boards not covered in BOQ.</b>	<b>Revised BOQ to be referred.</b>
64.	Part - 2	Section VII	S.05 E&M Works-Station Utilities, Clause 5.4.3.13	All Emergency Exit signs (including ITESS and XPSS) and 50% of the Emergency lighting fixtures in Stations and Tunnels (including cross passages) shall be of self-contained battery powered ( by 2 hours battery power packs) type.	This item is excluded from this contract.
65.	Part - 2	Section VII	5.4.3.17 Earthing and Bonding system	<b>Earthing and bonding system</b> <b>General</b> a) The earthing system shall be designed complying with IEEE80, NEC, BS7430 and IS. Earthing system shall be provided for the purpose of safety ..... g) Earth bars shall be <b>50mm x 6mm</b> cross-section, hard drawn high conductivity tinned copper. The length of earth bar shall suit the number of outgoing ways required.	<b>Earthing and bonding system</b> <b>General</b> a) The earthing system shall be designed complying with IEEE80, NEC, BS7430 and IS. Earthing system shall be provided for the purpose of safety ..... a) Earth bars shall be <b>75x10mm</b> , cross-section, and hard drawn high conductivity tinned copper. The length of earth bar shall suit the number of outgoing ways required.

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66.	Part - 2	Section VIII	S.04 E&M Works, 4.7.3.6	Non-recessed hose-reels in the public area shall be housed within stainless steel (Grade 316) material cabinets	<b>Revised BOQ to be referred for the quantity of Stainless Steel cabinets.</b>
67.	Part - 1	Section -IV b	Pricing Document Fire Protection system	Fire Pump- Shut-off head shall not exceed 120% of the rated head	Fire Pump- Shut-off head shall not exceed <b>140% of</b> the rated head.
68.	Part - 1	Section -IV b	Pricing Document MEP	Reference to M&W Specifications.	To be read as <b>reference to Specifications.</b>
69.	Part - 2	Section -IX	Tender Drawing PML-1-1C-GA-PL-0021	Notes for Water service – Quantities related to Point 3, 4, 5, 6, 7, 12 are not covered in BOQ.	<b>Revised BOQ to be referred for the quantities.</b>
70.	Part - 2	Section -IX	Tender Drawing PML-1-1C-GA-EL-008	Quantities related to Feeder Pillar Box are not covered in BOQ.	<b>Revised BOQ to be referred for the quantities.</b>
71.	Part - 2	Section VIII	S.04 E&M Works, 4.4.8.6 Installation page no 65	Contractor shall install plastic cable tie-wraps as required to neatly group cables and to keep the weight of the cable from damaging terminations.	Cable ties shall be made from corrosion resistant, flame retardant and ultra violet stabilized materials. At locations where cables are installed above tracks or in areas subjected to significant and constant vibration, cable ties shall be of metal construction type and coated with a corrosion resistant, low smoke halogen free and flame retardant insulation material.
72.	Part - 2	Section VIII	S.04 E&M Works- OCS	Sprinkler Pump	All the reference to Sprinkler pumps to be ignored in the specifications as combined system is envisaged.
73.	Part - 1	Section IVB Pricing Document	F.18 INERAGENT / CLEAN GAS ROOM FLOODING	“Clean Agent System <b>IG 541 (300 bar)</b> complying with NFPA 2007 gas suppression system.....”	<b>Reference to IG 541 is deleted.</b> To be read as - “Clean Agent System complying with NFPA 2007 gas suppression system.....”
74.	Part - 1	Section IVB Pricing Document	E03. 1, E03.1, E03.3, E03.4, E03.5, E03.6	Cable rating specified as 1000 V grade.	Cable rating corrected as 1100 V grade.
75.	Part - 2	Section VI	ER- Appendix 19 – Design and Construction Interface Management	Appendix 19 – Design and Construction Interface Management	Please refer <b>Annexure 11</b> for Revised Appendix 19 – Design and Construction Interface Management.
76.	Part - 2	Section VIII and Section VII	E &M - ODS and OCS	Applicability of BS, EN and IS codes.	For firefighting system, IS Standards being local codes shall be having higher priority over other standards.
77.				MEP Drawings	Please refer <b>Annexure 12</b> for Revised MEP drawings

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
78.	Part - 3	Section X PCC	13.3 Variation Procedure	<p><b><u>Replace sub clause 13.3 with the following:</u></b></p> <p>“Employer’s Variation” means a change in the Employer's Requirements which makes necessary alteration or modification of the Design, quality or scope of Works as described by or referred to in the Employer's Requirements. Changes to any sequence, method or timing of manufacture, testing and Commissioning including Integrated Testing and Commissioning and changes to any part of the Site or access thereto will not constitute Employer's Variation.</p> <p>An Employer's Variation shall be requested and implemented in accordance with and subject to the following provisions:</p> <p>(a) within 14 days (or such other period as the Engineer may allow) of the request an Employer's Variation, the Contractor shall notify the Engineer in writing whether in his opinion the Employer's Variation would, if ordered:</p> <p>(i) give rise to any entitlement to an extension of time; or</p> <p>(ii) affect the achievement of any Milestone; or</p> <p>(iii) give rise to any entitlement to additional payment; or</p> <p>(iv) affect the warranties of the Contractor set out in Clause 4.2 of PCC.</p> <p>and shall submit his proposals as to the terms upon which he would agree to implement the Employer's Variation. The contractor shall furnish sufficient information in terms of rates/prices of the equipment/components manufactured by the Contractor or sourced from the Vendors/Sub-contractors such as: estimated man-hours, man-hours rates for manufactured items, design costs, basic rate of materials, sub-assemblies, taxes, duties, overheads &amp; profits and inflation rate, so as to establish the reasonableness of the variation price.</p> <p>(b) any agreement between the Engineer and the Contractor as to the terms upon which an Employer's Variation may be implemented shall have no contractual or other legal effect, until it is in writing and is signed by the Contractor and the Engineer. The Engineer before signing such agreement shall take prior approval of the Employer. The terms of this agreement will be binding upon the Contractor and the Employer. This agreement shall determine the amount which should be added to or deducted from the relevant Cost Centre Amount and/or the revisions (if any) which should be made to the Milestone Payment Schedules as a result of the Variation.</p> <p>In the event of the Engineer and the Contractor failing to reach agreement on the revisions to be made to the Cost Centre Amounts, the Engineer shall, with the approval of the Employer, determine the amount which should be added or deducted from the relevant Cost Centre amount which shall be binding on the Contractor. In case the Contractor supplies part/ incomplete information or refuses to supply the required information, the Employer shall determine the cost of Variation based on the information available to him from any sources which in his judgment can be used to determine the case. The Contractor</p>	<p><b><u>Replace sub clause 13.3 with the following:</u></b></p> <p>“Employer’s Variation” means a change in the Employer's Requirements which makes necessary alteration or modification of the Design, quality or scope of Works as described by or referred to in the Employer's Requirements. Changes to any sequence, method or timing of manufacture, testing and Commissioning including Integrated Testing and Commissioning and changes to any part of the Site or access thereto will not constitute Employer's Variation.</p> <p>An Employer's Variation shall be requested and implemented in accordance with and subject to the following provisions:</p> <p>(a) within 14 days (or such other period as the Engineer may allow) of the request an Employer's Variation, the Contractor shall notify the Engineer in writing whether in his opinion the Employer's Variation would, if ordered:</p> <p>(i) give rise to any entitlement to an extension of time; or</p> <p>(ii) affect the achievement of any Milestone; or</p> <p>(iii) give rise to any entitlement to additional payment; or</p> <p>(iv) affect the warranties of the Contractor set out in Clause 4.2 of PCC.</p> <p>and shall submit his proposals as to the terms upon which he would agree to implement the Employer's Variation. The contractor shall furnish sufficient information in terms of rates/prices of the equipment/components manufactured by the Contractor or sourced from the Vendors/Sub-contractors such as: estimated man-hours, man-hours rates for manufactured items, design costs, basic rate of materials, sub-assemblies, taxes, duties, overheads &amp; profits and inflation rate, so as to establish the reasonableness of the variation price.</p> <p>(b) any agreement between the Engineer and the Contractor as to the terms upon which an Employer's Variation may be implemented shall have no contractual or other legal effect, until it is in writing and is signed by the Contractor and the Engineer. The Engineer before signing such agreement shall take prior approval of the Employer. The terms of this agreement will be binding upon the Contractor and the Employer. This agreement shall determine the amount which should be added to or deducted from the relevant Cost Centre Amount and/or the revisions (if any) which should be made to the Milestone Payment Schedules as a result of the Variation.</p> <p>In the event of the Engineer and the Contractor failing to reach agreement on the revisions to be made to the Cost Centre Amounts, the Engineer shall, with the approval of the Employer, determine the amount which should be added or deducted from the relevant Cost Centre amount which shall be binding on the Contractor. In case the Contractor supplies part/ incomplete information or refuses to supply the required information, the Employer shall determine the cost of Variation based on the information available to him from any sources which in his judgment can be used to determine the case. The Contractor</p>

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S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
				<p>will proceed with the Work on this basis but may submit his Claim if necessary, in accordance with Clause 20.</p> <p>In assessing work covered by any sub-contract, the Engineer will have, where he deems necessary, access to the original sub-contract conditions, rates, prices and details of the variation claimed, to assist in evaluating any Variations.</p> <p>(c) If the Engineer withdraws the request for an Employer's Variation, the Contractor shall have no claim of any kind whatsoever arising out of or in connection with any of the proposals made or any failure to reach agreement. In case the Employer's Variation involves omission of part of the Works, the agreement shall address the issue of reduction in the Contract Price.</p> <p>Any Variation issued for substantial technical modifications, additional cost or extension of time shall be consolidated in a signed Amendment to Contract.</p>	<p>will proceed with the Work on this basis but may submit his Claim if necessary, in accordance with Clause 20.</p> <p>In assessing work covered by any sub-contract, the Engineer will have, where he deems necessary, access to the original sub-contract conditions, rates, prices and details of the variation claimed, to assist in evaluating any Variations.</p> <p>(c) If the Engineer withdraws the request for an Employer's Variation, the Contractor shall have no claim of any kind whatsoever arising out of or in connection with any of the proposals made or any failure to reach agreement. In case the Employer's Variation involves omission of part of the Works, the agreement shall address the issue of reduction in the Contract Price.</p> <p>Any Variation issued for substantial technical modifications, additional cost or extension of time shall be consolidated in a signed Amendment to Contract.</p> <p><b><u>Variation in length of Tunnel under D&amp; B Portion</u></b></p> <p>The present contract is design and build contract for specified portion of the tunnel. However, during the execution of the work any variation in tunnel length within the range of + or – 10% of tunnel length will be paid as specified and quoted under “tunnelling” sub-heading of Price Centre E, F &amp; G, shall be dealt in a proportionate manner of the accepted rate without any liabilities from either parties. <b>For variation in tunnel length of more than + or – 10%; the additional length beyond this limit of + or – 10% shall be paid or recovered on mutually agreed rates, terms and conditions.</b></p> <p><b>Variation in the Bill of Quantities of bid documents</b></p> <p>i. The quantities of items shown in the Bill of Quantities for price centres of Architectural Finishing and Hard Landscaping Works for Budhwarpeth, Mandai and Swargate Station (Price Centre H, I &amp; J) and Electrical &amp; Mechanical works for Budhwarpeth, Mandai &amp; Swargate stations (Price Centre K, L &amp; M) are approximate, and liable to vary during the actual execution of the work. Some items/group of items may have to be altered, added or omitted. The Contractor shall be bound to carry out and complete the stipulated work as instructed by the Engineer, irrespective of the magnitude of variations including additions, alterations or omissions in the Bill of Quantities, individual items or group of items, specified in the Bill of Quantities.</p> <p>ii. Such variations shall be paid as follows:</p> <p>a) At the accepted rates of the Contract for Positive variation in quantities to the extent of 25%, except in the case of foundation works. Unless otherwise specifically provided for in the Bill of Quantities or applicable to a group of items mentioned therein and not to individual items. <b>For the purpose of this clause pertaining to variation 'The group of items shall be considered as the respective price centre.</b></p>

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
					<p>For Example. Price Centre H, I &amp; J etc.,’ In case of variation in quantities on minus side, contract rates will be payable for executed quantities.</p> <p>b) In case of earth work, the aforesaid variation limit of 25% shall apply to the gross quantity of earth work and variation in the quantity of individual classifications of soil will not be subject to this limit where any variation can take place.</p> <p>c) For items against which the quantity given in the Bills of Quantities is “if or as required”, there shall be no increase/decrease of rates whatever be the quantity finally executed.</p> <p>d) Variation in the quantity of items individually costing upto 1% of the total contract value, shall be payable at the rates stated in the Contract notwithstanding the magnitude of variation upto 2% of the original Contract Value for each item.</p> <p>e) In case the variation in individual items or the group of items as stipulated above, is more than 25% on plus side, the rate for the varied quantity beyond 25% shall be negotiated between the Engineer and the Contractor and mutually agreed rates arrived at before actual execution of the extra quantity.</p> <p>f) In case Engineer introduces an item for which the Contract does not contain any rates or prices applicable to the varied Works, the rate of such items shall be derived, wherever possible, from rate for similar items available in the Bill of Quantities of the accepted Tender. In case this is not possible, the rate may be decided on the following basis:</p> <ol style="list-style-type: none"> <li>Cost of Materials at current market price, as actually utilised in the final finished Permanent Works, including a reasonable percentage for wastage and transportation.</li> <li>Cost of enabling works if any (unless provided for separately) worked out on the above basis but with less stringent quality. Specifications minus salvage value of serviceable material released after completion of work and cost of material released as scrap.</li> <li>Cost of labour actually used at the site of work at rates under Payment of Minimum Wages Act for the area of work for each category of worker, further enhanced by a percentage of 10% of the aforesaid rates to account for labour not directly utilised at Site and other ancillary and incidental expenses on labour.</li> <li>Hire charges for Plant &amp; Machinery, scaffolding, shuttering, forms, etc., required to be used at the site of the work. The tools used by the various trades shall not be counted as Plant &amp; Machinery for this purpose.</li> <li>An amount of 20% of items (i), (ii), (iii) and (iv) above to allow for Contractor’s overheads, profits and corporate taxes. This percentage shall also apply to estimated cost of Materials supplied free to the Contractor.</li> <li>In all cases where extra items of work are involved, for which there are no rates in the accepted Bill of Quantities the Contractor shall give a notice to the Engineer, of at least 7 days before the need for their execution arises.</li> </ol> <p>In the event of disagreement in respect of items <b>(e)</b> and <b>(f)</b> above, the Engineer shall fix such rates of price as are, in his opinion appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed</p>

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
					or fixed, the Engineer shall determine provisional rates or prices to enable on account payments to the Contractor. Alternatively, in the event of disagreement, the Contractor shall have no claim to execute extra quantities/new items and the Engineer shall be free to get such additional quantities beyond 25% new items executed through any other agency. However, if the Engineer or the Employer so directs the Contractor shall be bound to carry out any such additional quantities beyond the limits stated above original quantities and or new items and the disagreement or the difference regarding rates to be paid for the same shall be settled in the manner laid down under the conditions for the settlement of dispute.
79.	Part – 1	Section III EQC	Cl. 3.2 <b>Average Annual turnover</b>	<p>Minimum average annual construction turnover of <b>INR 6570 Million</b> calculated as total certified payments in progress and/ or completed, in the last five (5) Financial years starting from 2013-14 to 2017-2018.</p> <p><b>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02),</b> the minimum average annual turnover shall be <b>INR 13050 Million</b> calculated as total certified payments in progress and/ or completed, in the last five (5) Financial years starting from 2013-14 to 2017-2018.</p> <p>(Chartered accountant certificate to be submitted). <sup>(ix)</sup></p> <p>The financial year as applicable in the country of origin of the bidders would be considered. The 'last financial year' will be 2017-2018.</p>	<p>Minimum average annual construction turnover calculated as total certified payments in progress and/ or completed, in the last five (5) Financial years starting from 2013-14 to 2017-2018. The financial year as applicable in the country of origin of the bidders would be considered. The 'last financial year' will be 2017-2018 (Chartered accountant certificate to be submitted) :</p> <p><b>For single Contract Package (UGC-02):</b> INR 6570 Million</p> <p><b>For both the Contract Packages combined (UGC-01 and UGC-02):</b> INR 13050 Million</p> <p><b>Note: The combined criteria requirement (UGC-01 and UGC-02) are only relevant to that specific bidder, who would be L1 bidder of UGC-01 and in case also submitting its bid in Tender No. UGC-02. In all other cases ( i.e., for all other bidders), the single contract EQC criteria are applicable.</b></p>
80.	Part – 1	Section III EQC	Cl. 3.3 <b>Financial Resources</b>	<p>(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the cash flow requirements estimated as <b>INR 1638 Million</b> as on bid submission date.</p> <p><b>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02),</b> the Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the cash flow requirements estimated as <b>INR 3240 Million</b> as on bid submission date. <sup>(ix)</sup></p>	<p>(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the cash flow requirements estimated as on bid submission date:</p> <p><b>For single Contract Package (UGC-02):</b> INR 1638 Million</p> <p><b>For both the Contract Packages combined (UGC-01 and UGC-02) :</b> INR 3240 Million</p> <p><b>Note: The combined criteria requirement (UGC-01 and UGC-02) are only relevant to that specific bidder, who would be L1 bidder of UGC-01 and in case also submitting its bid in Tender No. UGC-02. In all other cases ( i.e., for all other bidders), the single contract EQC criteria are applicable.</b></p>
81.	Part – 1	Section III EQC	Cl. 3.5 <b>Bid Capacity</b>	<p>Available bid capacity = (2xAxN)-B. Available bid capacity should be <b>≥ INR 11520 Million.</b></p> <p><b>Post evaluation, if the bidder is L1 for both the packages (UGC-01 and UGC-02), available</b></p>	<p>Available bid capacity = (2xAxN)-B. Available bid capacity should be:</p> <p><b>For single Contract Package (UGC-02):</b></p>

## P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
				bid capacity = (2xAXN)-B. Available bid capacity should be $\geq$ <b>INR 22770 Million</b> <sup>(ix)</sup>	$\geq$ INR 11520 Million.  <b>For both the Contract Packages combined (UGC-01 and UGC-02) :</b> $\geq$ INR 22770 Million. <b>Note: The combined criteria requirement (UGC-01 and UGC-02) are only relevant to that specific bidder, who would be L1 bidder of UGC-01 and in case also submitting its bid in Tender No. UGC-02. In all other cases ( i.e., for all other bidders), the single contract EQC criteria are applicable.</b>
82.	Part – 1	Section III B - EQC	Notes for the Bidder (ix)	<b>(ix)</b> It is to be noted by the bidder bidding for this package-2 that, in case the L1 bidder for this package-2 is the same as the L1 bidder (or contractor) for Package-1, then during the process of evaluation of the bid for this package-2, the criteria for both the packages (UGC-01 and UGC-02) mentioned above shall be deemed to be met by the bidder post qualification. If the bidder fails to meet the above criteria post-qualification for both the packages-1 & 2 (UGC-01 and UGC-02), then the Package -2 contract will be awarded to the L2 bidder Package-2	<b>(ix)</b> Employer is inviting tenders for two contract packages for the UG section of PMRP, namely UGC-01 and UGC-02. The bidders should note that both the packages shall be evaluated separately and independently. However, <ol style="list-style-type: none"> <li>This package i.e. UGC-02 shall be taken up for opening of financial bids after establishing the L1 bidder for UGC-01.</li> <li>All the bidders of this package shall be technically evaluated w.r.t eligibility criteria for meeting the single contract package requirement (UGC-02) except L1 bidder of UGC-1, in case it also participates in UGC-02.</li> <li><b>The combined criteria requirement (UGC-01 and UGC-02) are only relevant to that specific bidder, who would be L1 bidder of UGC-01 and in case also submitting its bid in Tender No. UGC-02. In all other cases ( i.e., for all other bidders), the single contract EQC criteria are applicable.</b></li> </ol>
83.	Part-2	Section VI ER	B – Functional (Ix)	(Ix) Load flow, short-circuit and protective device coordination studies which shall be prepared by third party consultant engaged by the Contractor and as per the Contract stipulations;	(Ix) Load flow, short-circuit and protective device coordination studies will be provided by DDC contractor engaged by Employer.
84.	Part - 2	Part - 2	Section IX	Tender Drawings- Drawing No. PML1-IC-GA-UGC-001	Revised Drawing No. PML1-IC-GA-UGC-001-R1 ( <b>Annexure 13</b> )
85.	Part - 2	Section IX	Tender Drawings	Tender Drawings : <ol style="list-style-type: none"> <li>PML1-IC-RT-CP-0051</li> <li>PML1-IC-RT-CP-0052</li> <li>PML1-IC-RT-CS-0053</li> <li>PML1-IC-RT-CS-0056</li> </ol>	Walkaway provision in the below drawings are deleted ( <b>Annexure 15</b> ) <ol style="list-style-type: none"> <li>PML1-IC-RT-CP-0051 – R1</li> <li>PML1-IC-RT-CP-0052 – R1</li> <li>PML1-IC-RT-CS-0053 – R1</li> <li>PML1-IC-RT-CS-0056 – Stands deleted.</li> </ol> Wherever indicated in the tender document “ <b>Emergency/Maintenance Walkway in Tunnel and Cut &amp; Cover Structure</b> ” shall be considered as removed.
86.	Part - 2	Section IX	Tender Drawings	Tender Drawings : PML1-IC-GA-IRF-0071	Revised Drawing No: PML1-IC-GA-IRF-0071-R1 ( <b>Annexure 14</b> ) 1 <sup>st</sup> stage concrete dimension is included, and walkway provision is deleted.
87.	Part – 1	Section III - EQC	4.2 (a) Specific Experience	2. For SI. No 4.2 a1 to 4.2 a2 above, Completed work means even ‘ongoing works’ where the required similar work has been <b>80% physically completed in all respects</b> and the same is required to be supported by Client’s Certificate(s) along with the bid submission.	2. For SI. No 4.2 a1 to 4.2 a2 above, Completed work means even ‘ongoing works’ where the required similar work has been at least 80% completed and the same is required to be supported by Client’s Certificate(s) along with the bid submission.

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S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition																														
			Additional Notes for the bidder – S. No. 2	Certified copies of Client’s duly signed Certificates shall be self-attested by the Applicant.	Certified copies of Client’s duly signed Certificates shall be self-attested by the Applicant.																														
88.	Part – 1	Section IVa – Bidding Forms	26. Form for Establishing the Eligible source countries – Plant, Materials and Services	-	Please refer <b>Annexure 17</b> for Form 26. “Form for Establishing the Eligible source countries – Plant, Materials and Services.”																														
89.	Part – 3	Section X PCC	Cl. 14.2.4 Interest in Case of Delay in Repayment of Advances	Should there be delay in the progress and completion of work, as a result of which it is not possible to recover the advance and interest thereon (if any), before the date of completion stipulated in the Contract, then notwithstanding any other provision of the Contract the interest to be charged from the Contractor on the remaining portion of the advance beyond the original completion date specified in the Contract, shall be the State Bank of India prime lending Rate plus 2% (simple interest) per annum or 12% (simple interest) per annum whichever is higher.	Should there be delay in the progress and completion of work, as a result of which it is not possible to recover the advance and interest thereon, before the date of completion stipulated in the Contract, then the interest to be charged from the Contractor on the remaining portion of the advance beyond the original completion date specified in the Contract, shall be the State Bank of India Base Rate plus 3% per annum or 12% per annum, whichever is higher up to the date of actual recovery affected by the MAHA-METRO. If the contract is terminated due to default of the Contractor, the ‘Mobilisation Advance’ would be deemed as interest bearing advance at an interest rate equal to the State Bank of India Base Rate, prevailing on the date of issue of Notice of Invitation of Bids plus 3% per annum or 12% per annum, whichever is higher, to be compounded quarterly. The interest will be calculated from the first day of the month in which an advance is paid to the Contractor and it will be calculated up to the last day of the month in which the recovery is made. Interest for the month would be calculated on the month principal outstanding on the first day on the month.																														
90.					<b>Deleted</b>																														
91.	Part – 1	Section IV b – Pricing document	BOQ – Price center ‘H’ – H.16 – Special Items - S. No. 2	BOQ - Price Centre H - Architectural finishing and Hard Landscaping works for Budhwarpeth Station. <table><tr><th>BOQ Ref No.</th><th></th><th>Description</th><th>Unit</th><th>Qty.</th></tr><tr><td>H.16</td><td></td><td>Special Items</td><td></td><td></td></tr><tr><td>2</td><td>NDSR</td><td>Architectural items like stone Jalli, sandstone Jalli, Granite Cupola, Sandstone Jalli, Granite and Sandstone cornice, Carved sandstone balcony, Granite Balcony as per Architectural Drawings for elevation purpose.</td><td>LS</td><td></td></tr></table>	BOQ Ref No.		Description	Unit	Qty.	H.16		Special Items			2	NDSR	Architectural items like stone Jalli, sandstone Jalli, Granite Cupola, Sandstone Jalli, Granite and Sandstone cornice, Carved sandstone balcony, Granite Balcony as per Architectural Drawings for elevation purpose.	LS		BOQ - Price Centre H - Architectural finishing and Hard Landscaping works for Budhwarpeth Station. <table><tr><th>BOQ Ref No.</th><th></th><th>Description</th><th>Unit</th><th>Qty.</th></tr><tr><td>H.16</td><td></td><td>Special Items</td><td></td><td></td></tr><tr><td>2</td><td></td><td>Deleted</td><td></td><td></td></tr></table>	BOQ Ref No.		Description	Unit	Qty.	H.16		Special Items			2		Deleted		
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S. No	Part	Section	Clause No.	Existing Tender Condition					Revised Tender Condition				
92.	Part – 1	Section IV b – Pricing document	BOQ – Price center ‘I’ – I.16 – Special Items - S. No. 2	BOQ - Price Centre I - Architectural finishing and Hard Landscaping works for Mandai Station.					BOQ - Price Centre I - Architectural finishing and Hard Landscaping works for Mandai Station.				
				BOQ Ref No.		Description	Unit	Qty.	BOQ Ref No.		Description	Unit	Qty.
				I.16		Special Items			I.16		Special Items		
				2	NDSR	Architectural items like stone Jalli, sandstone Jalli, Granite Cupola, Sandstone Jalli, Granite and Sandstone cornice, Carved sandstone balcony, Granite Balcony as per Architectural Drawings for elevation purpose.	LS		2		Deleted		
93.	Part – 1	Section IV b – Pricing document	BOQ – Price center ‘J’ – J.16 – Special Items - S. No. 2	BOQ - Price Centre J - Architectural finishing and Hard Landscaping works for Swargate Station.					BOQ - Price Centre J - Architectural finishing and Hard Landscaping works for Swargate Station.				
				BOQ Ref No.		Description	Unit	Qty.	BOQ Ref No.		Description	Unit	Qty.
				J.16		Special Items			J.16		Special Items		
				2	NDSR	Architectural items like stone Jalli, sandstone Jalli, Granite Cupola, Sandstone Jalli, Granite and Sandstone cornice, Carved sandstone balcony, Granite Balcony as per Architectural Drawings for elevation purpose.	LS		2		Deleted		
94.	Part - 1	Section III EQC	6.1 (2) Nominated / Specialized Subcontractor for MEP	2) The Nominated/ Specialized Subcontractors for MEP works would be proposed by the bidder in the bid submission. The proposed subcontractor firm for MEP must have carried out and completed Design and construction/ execution of at least two UG (Under Ground) metro stations in a single order in last 5 years (starting w.e.f 01.01.2013). The bidder shall propose at least two nominated/ Specialised Subcontractors in the Bid submissions. The selection of one subcontractor would be done by the Engineer/Employer after award of contract. The approval for the selected MEP subcontractor by the Employer would final and binding on the contractor.					2) The Nominated/ Specialized Subcontractors for MEP works would be proposed by the bidder in the bid submission. The proposed subcontractor firm for MEP must have carried out and completed <b>similar works</b> ** of Design and construction/ execution of at least two UG (Under Ground) metro stations in a single order in last 5 years (starting w.e.f 01.01.2013). The bidder shall propose at least two nominated/ Specialised Subcontractors in the Bid submissions. The selection of one subcontractor would be done by the Engineer/Employer after award of contract. The approval for the selected MEP subcontractor by the Employer would final and binding on the contractor.				
									** <b>“Similar works”</b> for this contract shall be the work of supply, installation, testing and commissioning of E&M works of Metro station / Mas rapid Transit System / Commercial Buildings / Official Buildings / Railway stations / Airports / Hospital Buildings / Industrial establishments. Such E&M work can as well be part of a larger contract. E&M works shall be defined as work containing electrification, fire suppression and detection out of which electrification component shall not be less than 60% of E&M works.				



### P1UGC-02 – Corrigendum III – Annexure A

S. No	Part	Section	Clause No.	Existing Tender Condition	Revised Tender Condition
95.	NIT	NIT	Last date of Bid Submission & Opening	The last date of bid submission & opening is 16:00 Hrs. & 16:30 Hrs. respectively on 27/08/2018	The last date of bid submission & opening is 16:00 Hrs. & 16:30 Hrs. respectively on 07/09/2018

 16/8/18

Addl. General Manager (Tender)

For & on behalf of Maharashtra Metro Rail Corporation Ltd.