



## Cochin Smart Mission Limited (CSML)

**Cochin Smart Mission Limited**  
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### CORRIGENDUM-7

**TnD No.: CSML/ TND / 2018 /64 /121**

**Date: 04/12/2018**

**Tender Reference Number: CSML/Main Road/RFP/002 Date: 16-10-2018**

**Tender ID: 2018\_KMRL\_241720\_1**

- (1) Corrigendum-1: TnD No.: CSML/ TND / 2018 /64 /057 Date: 11/06/2018
- (2) Corrigendum-2: TnD No.: CSML/ TND / 2018 /64 /063 Date: 26/06/2018
- (3) Corrigendum-3: TnD No.: CSML/ TND / 2018 /64 /066 Date: 07/07/2018
- (4) Corrigendum-4: TnD No.: CSML/ TND / 2018 /64 /102 Date: 31/10/2018
- (5) Corrigendum-5: TnD No.: CSML/ TND / 2018 /64 /105 Date: 13/11/2018
- (6) Corrigendum-6: TnD No.: CSML/ TND / 2018 /64 /116 Date: 28/11/2018

**Project Name: “Development of Smart Roads & Other Roads in West Kochi under Smart City Mission”**

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SL NO	Page No	RFP Volume & Section	Earlier Clause	Revised Clause
1	85	<p>Section III. Qualification Criteria</p> <p>1.3 Financial Requirements</p> <p>1.3 FINANCIAL SITUATION</p> <p>1.3.2. Average Annual Turnover</p> <p>Criteria Requirement</p>	<p>Minimum average annual turnover (Civil Engineering construction and Electrical works) of INR 33.00 CRORE, calculated as total certified payments received for contracts in progress or completed, within the last five [3] years [1 April 2015 to 31 March 2018].</p> <p>le. (FY 2015-2016, 2016-2017, 2017-2018)</p>	<p>Minimum average annual turnover (<b>Infrastructure Projects</b>) of INR 33.00 CRORE, calculated as total certified payments received for contracts in progress or completed, within the last <b>Three [3] years</b> [1 April 2015 to 31 March 2018].</p> <p>le. (FY 2015-2016, 2016-2017, 2017-2018)</p>
2	88	<p>Section III. Qualification Criteria</p> <p>1.3 Financial Requirements</p> <p>1.3 FINANCIAL</p>	<p>Availability of Bidding Capacity should be atleast equal to INR 110.00 CRORE</p> <p>Available bid capacity will be evaluated as under:</p> <p>Bidding capacity = <math>2 \times A \times N - B</math></p>	<p>Availability of Bidding Capacity should be atleast equal to INR 110.00 CRORE</p> <p>Available bid capacity will be evaluated as under:</p> <p>Bidding capacity = <math>2 \times A \times N - B</math></p> <p>Where</p>

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		<p>SITUATION</p> <p>1.3.4 Bidding Capacity</p> <p>Criteria Requirement</p>	<p>Where</p> <p>A= maximum annual construction turnover in last five financial years taking into account the completed as well as works in progress</p> <p>(Updated to the current price level, rate of inflation shall be 10% per year).</p> <p>N= Number of years prescribed for completion of works (infrastructure component) for which bids has been invited which is 2 years for this bid.</p> <p>B= Value at current price level of existing commitments and ongoing works to be completed during the next 5 years. Bidders will give a calculation for the same.</p>	<p>A= maximum annual construction turnover in last five financial years taking into account the completed as well as works in progress</p> <p>(Updated to the current price level, rate of inflation shall be 10% per year).</p> <p>N= Number of years prescribed for completion of works (infrastructure component) for which bids has been invited which is <b>1.67 years</b> for this bid.</p> <p>B= Value at current price level of existing commitments and ongoing works to be completed during the next 5 years. Bidders will give a calculation for the same.</p>
3	91 & 92	<p>Section III. Qualification Criteria</p> <p>1.4 Construction Experience</p> <p>1.4 EXPERIENCE</p>	<p><b>1.4.2 (a) Specific Experience (CIVIL)</b></p> <p>(a) Participation as contractor, management contractor, or subcontractor, in at least</p> <p>(i) One similar Civil infrastructure project work of contract value of at least INR 62.40 CRORE OR</p> <p>(ii) Two similar Civil infrastructure</p>	<p><b>1.4.2 (a) Specific Experience</b></p> <p>(a) Participation as contractor, management contractor, or subcontractor, in at least</p> <p>(i) <b>One similar infrastructure project</b> work of contract value of at least INR <b>88.00 CRORE</b> OR</p> <p>(ii) <b>Two similar infrastructure</b> project work</p>

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		<p>1.4.2 (a) Specific Experience (CIVIL)</p> <p>Criteria Requirement</p>	<p>project work of contract value of at least INR 39.00 CRORE OR</p> <p>(iii) Three similar Civil infrastructure project work of contract value of at least INR 31.20 CRORE</p> <p>within the last seven (7) years, that have been successfully or are *substantially (as detailed in Section IV) completed. I.e. (from 01st Oct'2011 to 30th Sept 2018) prior to the bid submission deadline,</p> <p>NOTE: Similar Civil infrastructure project implies, Road works for National highway / State Highway / Airports, construction of Underground Utility ducting and Stormwater drainage works, Electrical works, Power cabling, works</p>	<p>of contract value of at least INR <b>55.00 CRORE</b> OR</p> <p>(iii) <b>Three similar infrastructure</b> project work of contract value of at least INR <b>44.00 CRORE</b></p> <p>within the last seven (7) years, that have been successfully or are *substantially (as detailed in Section IV) completed. I.e. (from 01st Oct'2011 to 30th Sept 2018) prior to the bid submission deadline,</p> <p>NOTE: <b>Similar infrastructure project</b> implies, Road works for National Highway / State Highway / <b>Major Roads / Other Roads / Airports / Bridges /</b> construction of Underground Utility ducting and Stormwater drainage works, <b>related</b> Electrical works, Power cabling, works</p>
4	93 & 94	<p>Section III. Qualification Criteria</p> <p>1.4 Construction Experience</p> <p>1.4 EXPERIENCE</p>	<p><b>1.4.2 (b) Specific Experience (ELECTRICAL)</b></p> <p><b>(a) Participation as contractor, management contractor, or subcontractor, in at least</b></p> <p><b>(i) One similar Electrical infrastructure (for Roads) project work</b> of contract value of at least <b><u>INR 25.60 CRORE</u></b></p> <p><b>OR</b></p>	<p><b>This Clause stands deleted.</b></p>

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		<p>1.4.2 (b) Specific Experience (ELECTRICAL)</p>	<p><b>(ii) Two similar Electrical infrastructure (for Roads) project work</b> of contract value of at least <b><u>INR 16.00 CRORE</u></b></p> <p><b>OR</b></p> <p><b>(iii) Three similar Electrical infrastructure (for Roads) project work</b> of contract value of at least <b><u>INR 12.80 CRORE</u></b></p> <p><b>_within the last seven (7) years, that have been successfully or are *substantially (as detailed in Section IV) completed. Ie. (from 01st Oct'2011 to 30th Sept 2018) prior to the bid submission deadline,</b></p> <p>NOTE: For Electrical works, the bidder should possess a valid Electrical license</p> <p><b>Similar Electrical infrastructure (for Roads) project work</b> implies, Electrical works (for roads) including power cabling covering following works</p> <p>(i) supply, Installation of HT (11 KV) and LT (415 Volts) overhead lines and transformers 500 /250 KVA Compact Substation / Customized Compact Substation RMU, Transformer and Low voltage panels, smart metres</p>	
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			under grounding of HT, LT and data / telephone cables in RCC trench / HDPE ducts.																									
5	95 & 96	Section III. Qualification Criteria 1.4 Construction Experience 1.4 EXPERIENCE 1.4.3 (c) Specific Experience (CIVIL) Criteria Requirement	<p><b>1.4.3 (c) Specific Experience (CIVIL)</b></p> <p>(a) For the above or other contracts executed during the period stipulated in 1.4.2 (a) and (b) above, a minimum experience in the following key activities:</p> <p>Executed in any one year, the following minimum quantities of work (CIVIL);</p> <table border="1"> <thead> <tr> <th>Item of work</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Earth work</td> <td>12092 Cum</td> </tr> <tr> <td>RCC M 20</td> <td>4357 Cum</td> </tr> <tr> <td>RCC M 25</td> <td>1449 Cum</td> </tr> <tr> <td>RCC Kerb</td> <td>702 cum</td> </tr> <tr> <td>Tactile tile</td> <td>5971 Sqm</td> </tr> <tr> <td>60mm interlock PU mould Paver blocks</td> <td>18629 Sqm</td> </tr> <tr> <td>WMM</td> <td>165 Cum</td> </tr> <tr> <td>DBM</td> <td>2683 Cum</td> </tr> <tr> <td>BC</td> <td>1508 Cum</td> </tr> <tr> <td>100 mm tile</td> <td>150 Sqm</td> </tr> <tr> <td>Hysd Steel</td> <td>479 MT</td> </tr> </tbody> </table>	Item of work	Quantity	Earth work	12092 Cum	RCC M 20	4357 Cum	RCC M 25	1449 Cum	RCC Kerb	702 cum	Tactile tile	5971 Sqm	60mm interlock PU mould Paver blocks	18629 Sqm	WMM	165 Cum	DBM	2683 Cum	BC	1508 Cum	100 mm tile	150 Sqm	Hysd Steel	479 MT	This clause stand deleted
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6	96	Section III. Qualification Criteria	<p><b>1.4.3 (d) Specific Experience (ELECTRICAL)</b></p> <p><b>(d)</b> For the above or other contracts</p>	This Clause stands deleted.																								

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		<p>1.4 Construction Experience</p> <p>1.4 EXPERIENCE</p> <p>1.4.3 (d) Specific Experience (ELECTRICAL)</p>	<p>executed during the period stipulated in 1.4.2 (a) and (b) above, a minimum experience in the following key activities:</p> <p>Executed in any one year, the following minimum quantities of work (ELECTRICAL) ;</p> <table border="1" data-bbox="630 581 1276 1409"> <thead> <tr> <th data-bbox="630 581 1008 662">Item of work</th> <th data-bbox="1008 581 1276 662">Quantity</th> </tr> </thead> <tbody> <tr> <td data-bbox="630 662 1008 703">HT cable</td> <td data-bbox="1008 662 1276 703">3600 m</td> </tr> <tr> <td data-bbox="630 703 1008 781">500KVA Compact substation</td> <td data-bbox="1008 703 1276 781">2 set</td> </tr> <tr> <td data-bbox="630 781 1008 860">Customised Compact substation</td> <td data-bbox="1008 781 1276 860">3 No.'s</td> </tr> <tr> <td data-bbox="630 860 1008 940">LED post top lamp with pole</td> <td data-bbox="1008 860 1276 940">105 m</td> </tr> <tr> <td data-bbox="630 940 1008 980">11 KV Ringain Unit (RMU)</td> <td data-bbox="1008 940 1276 980">16 No.'s</td> </tr> <tr> <td data-bbox="630 980 1008 1060">REMOTE TERMINAL UNIT (RTU)</td> <td data-bbox="1008 980 1276 1060">17 No.'s</td> </tr> <tr> <td data-bbox="630 1060 1008 1179">Feeder pillar - Type 1 (ain feeder Pillar ( OUT DOOR) TYPE IP-55)</td> <td data-bbox="1008 1060 1276 1179">15 No.'s</td> </tr> <tr> <td data-bbox="630 1179 1008 1219">Telecom HDPE Duct</td> <td data-bbox="1008 1179 1276 1219">59400 No.'s</td> </tr> <tr> <td data-bbox="630 1219 1008 1338">smart energy meters Single phase meter with MMB enclosure</td> <td data-bbox="1008 1219 1276 1338">1800 No.'s</td> </tr> <tr> <td data-bbox="630 1338 1008 1409">smart energy meters Three phase meter with</td> <td data-bbox="1008 1338 1276 1409">1200 No.'s</td> </tr> </tbody> </table>	Item of work	Quantity	HT cable	3600 m	500KVA Compact substation	2 set	Customised Compact substation	3 No.'s	LED post top lamp with pole	105 m	11 KV Ringain Unit (RMU)	16 No.'s	REMOTE TERMINAL UNIT (RTU)	17 No.'s	Feeder pillar - Type 1 (ain feeder Pillar ( OUT DOOR) TYPE IP-55)	15 No.'s	Telecom HDPE Duct	59400 No.'s	smart energy meters Single phase meter with MMB enclosure	1800 No.'s	smart energy meters Three phase meter with	1200 No.'s	
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		MMB enclosure								
		LT cables		12600 m						
		160m power duct		3000 m						
7	100	Section III. Qualification Criteria  1.7 Shedule- Equipment	<b>(A) Minimum Equipment (Civil works)</b>			<b>(A) Minimum Equipment (Civil works)</b>				
			<b>Sl. No.</b>	<b>List of Equipment</b>	<b>Numbers</b>	<b>Capacity</b>	<b>Sl. No.</b>	<b>List of Equipment</b>	<b>Numbers</b>	<b>Capacity</b>
				<b>During Execution</b>				<b>During Execution</b>		
			1	HOT MIX PLANT- BATCH TYPE ELECTRONIC CONTROLS AND VIBRATORY SCREENS	1	120 TPH	1	HOT MIX PLANT- BATCH TYPE ELECTRONIC CONTROLS AND VIBRATORY SCREENS	1	<b>60 TPH</b>
			2	WMM PLANT	1	100 TPH	2	WMM PLANT	1	100 TPH
			3	EXCAVATORS AND DOZESS	3	1.25 CUM	3	EXCAVATORS AND DOZESS	3	1.25 CUM
			4	MOTOR GRADER	2	200 CUM/HR.	4	MOTOR GRADER	2	200 CUM/HR.
5	PAVER FINISHER WITH ELECTRONIC SENSORS	1	1 NOS. CAPABLE OF	5	PAVER FINISHER WITH <b>MECHANICAL/ELECTRONIC</b> SENSORS	1	1 NOS. CAPABLE OF PAVING 5.5MTR./HR			



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					PAVING 5.5MTR./HR	6	CONCRETE BATCHING PLANT	1	15 CUM/HR.	
			6	CONCRETE BATCHING PLANT	1	15 CUM/HR.	7	PNEUMATIC TYRE ROLLERS	1	8 TONNE MINIMUM 8 TYRES
			7	PNEUMATIC TYRE ROLLERS	1	8 TONNE MINIMUM 8 TYRES	8	VIBRATORY ROLLER	2	8 TO 10 TONNE
			8	VIBRATORY ROLLER	2	8 TO 10 TONNE	9	TANDOM VIBRATORY ROLLER	2	8 TO 10 TONNE
			9	TANDOM VIBRATORY ROLLER	2	8 TO 10 TONNE	10	TRUCKS	10	10 TONNE
			10	TRUCKS	10	10 TONNE	11	HYDRA CRANE	1	
			11	HYDRA CRANE	1		12	MINI VIBRATORY ROLLER	1	
			12	MINI VIBRATORY ROLLER	1		13	TRUCK MOUNTED TRANSIT MIXER	4	4-6 CUM
			13	TRUCK MOUNTED TRANSIT MIXER	4	4-6 CUM	14	BITUMEN PRESSURE DISTRIBUTOR	2	1750 SQM/HR.

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			14	BITUMEN PRESSURE DISTRIBUTOR	2	1750 SQM/HR.	15	WATER TANKER	2	6 KL
			15	WATER TANKER	2	6 KL	16	PAVER BLOCK CASTING MACHINE	1	
			16	PAVER BLOCK CASTING MACHINE	1		17	MECHANICAL BROOM	1	1500 SQMTR/HR.
			17	MECHANICAL BROOM	1	1500 SQMTR/HR.	18	SMALL ESCAVATORS (BOBCAT TYPE)	3	

Volume II - Corrigendum

8	8	4. SCOPE OF WORK  4.1 Construction, operation and maintenance of Smart Roads:	CSML intends to develop 5 roads in Ernakulam central area (4.91 Km) as smart roads. The scope of work includes developing the existing roads mentioned above by upgradation and augmentation of foot path, pavements, construction of a minor bridge on Abraham Madamakkal road, provision of cycle lanes, providing Road Markings, Street Furniture, Bus bays, Street Landscaping works, utility trenching/ducting works, Construction of new drains and restoration of existing drains as per site requirements, shifting of utilities to underground trenches, foundation for street light poles, monopoles and smart poles, installation of compact substations, individual connections through feeder pillars, smart elements and other Miscellaneous works along	CSML intends to develop 5 roads in Ernakulam central area (4.91 Km) as smart roads. The scope of work includes developing the existing roads mentioned above by upgradation and augmentation of foot path, pavements, construction of a minor bridge on Abraham Madamakkal road, provision of cycle lanes, providing Road Markings, Street Furniture, Bus bays, Street Landscaping works, utility trenching/ducting works, Construction of new drains and restoration of existing drains <b>including cleaning of existing drain by deploying suitable no. of scavengers / labours, diverting the waste water during construction period</b> as per site requirements, shifting of utilities to underground trenches, foundation for street light poles, monopoles and smart poles, installation of
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			with operation maintenance of landscaping works.	compact substations, individual connections through feeder pillars, smart elements and other Miscellaneous works along with operation maintenance of landscaping works.
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For further updates visit website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in), [www.csml.co.in](http://www.csml.co.in), [www.kochimetro.org](http://www.kochimetro.org) -Under organization name – “ Kochi Metro Rail Ltd”.

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