

ADDENDUM TO RAVIS TENDER

S.No	Clause No	Existing description	Updated Description
1	NIT Point 3	<p>Earnest Money Deposit (EMD)</p> <p>INR 15,60,000 (Indian Rupees Fifteen Lakhs sixty thousand only) in the form of Bank Guarantee from any Indian Public sector bank.</p>	<p>Earnest Money Deposit (EMD)</p> <p>INR 15,60,000 (Indian Rupees Fifteen Lakhs sixty thousand only) in the form of NEFT or Demand-draft or Bank Guarantee from any Indian Public sector bank.</p>
2	NIT Point 2	<p>Techno-Commercial Bid:-</p> <p>i. Cost of tender document (By online transaction)</p> <p>ii. EMD (By Bank guarantee)</p> <p>iii. Technical & Commercial documents with all Annexures except Annexure 23.</p>	<p>Techno-Commercial Bid:-</p> <p>i. Cost of tender document (By online transaction)</p> <p>ii. EMD (By NEFT or Demand-draft or Bank Guarantee)</p> <p>iii. Technical & Commercial documents with all Annexures except Annexure 23.</p>
3	GCC - 3.1	<p>The EMD shall be made payable without any condition to the CMRL. An amount of INR 15, 60, 000 (Fifteen lakh sixty thousand Indian rupees only) is required to be taken in the form of Bank Guarantee from any Indian Public sector bank as bid security. The Bank Guarantee number is required to be filled in Mandatory Information for eligibility of the bid (Annexure -6) and same original bank guarantee need to be signed and submitted to CMRL at-least one day before tender opening date.</p>	<p>The EMD shall be made payable without any condition to the CMRL. An amount of INR 15, 60, 000 (Fifteen lakh sixty thousand Indian rupees only) is required to be taken in the form of NEFT or Demand-draft or Bank Guarantee from any Indian Public sector bank as bid security. The NEFT number or Demand-draft number or Bank Guarantee number is required to be filled in Mandatory Information for eligibility of the bid (Annexure -6) and same NEFT receipt or Demand-draft or Bank Guarantee need to be signed and submitted to CMRL at-least one day before tender opening date.</p>

4	GCC - 3.2	All bidders (including those who possess NSIC, SSIC, etc. certificate holders) shall submit proof of bank guarantee of EMD along with the bid documents. Any bid document submitted without the EMD in the approved form (Annexure 21) shall be summarily rejected. No interest is payable for the EMD amount.	All bidders (including those who possess NSIC, SSIC, etc. certificate holders) shall submit proof of NEFT or Demand-draft or Bank Guarantee of EMD along with the bid documents. Any bid document submitted without the EMD in the approved form (Annexure 21) shall be summarily rejected. No interest is payable for the EMD amount.
5	Annexure 1 - Point 16	I/We confirm that, the full payment has been made through online transaction for tender fee and provided the bank guarantee for EMD. I/We understand that, in case CMRL did not receive the above mentioned cost of tender document payment and hard copy of EMD bank guarantee before the bid opening date then the bid will be summarily rejected.	I/We confirm that, the full payment has been made through online transaction for tender fee and provided the NEFT or Demand-draft or Bank Guarantee for EMD. I/We understand that, in case CMRL did not receive the above mentioned cost of tender document payment and hard copy of EMD NEFT receipt or Demand-draft or Bank Guarantee before the bid opening date then the bid will be summarily rejected.
6	Annexure 6 - S.No 5	Details of Bank Guarantee of EMD for an amount of INR. 15,60,000/- Bank Guarantee No.	Details of NEFT or Demand-draft or Bank Guarantee of EMD for an amount of INR. 15,60,000/- NEFT or Demand-draft or Bank Guarantee No.
7	Annexure 9 - S.No.2	Have you filled the details of Bank Guarantee of EMD in Annexure – 6	Have you filled the details of NEFT or Demand-draft or Bank Guarantee of EMD in Annexure – 6
8	Annexure 9 - S.No 11	Have you submitted the original hard copy of Bank guarantee of EMD to CMRL management one day before the Tender Opening Date?	Have you submitted the original hard copy of NEFT or Demand-draft or Bank Guarantee of EMD to CMRL management one day before the Tender Opening Date?
9	Annexure 9 - S.No 12	Soft copy of Bank Guarantee of EMD to be attached with techno-commercial bid (Annexure 16)	Soft copy of NEFT or Demand-draft or Bank Guarantee of EMD to be attached with techno-commercial bid (Annexure 16)
10	Annexure 16 - Heading & Description	<u>SOFT COPY OF EMD BANK GUARANTEE:</u> BIDDER HAS TO ATTACH THE SOFT COPY OF THE EMD BANK GUARANTEE IN THIS ANNEXURE 16 AND TO SUBMIT WITH THE TECHNO-COMMERICAL BID SUBMISSION	<u>SOFT COPY OF EMD - NEFT OR DEMAND-DRAFT OR BANK GUARANTEE:</u> BIDDER HAS TO ATTACH THE SOFT COPY OF THE NEFT OR DEMAND-DRAFT OR BANK GUARANTEE FOR EMD IN THIS ANNEXURE 16 AND TO SUBMIT WITH THE TECHNO-COMMERICAL BID SUBMISSION

11	GCC 6.2	<p>Work Experience for contract of RAVIS:- Work Experience of having completed similar works during last 7 years, either in India or outside India or both, ending last day of the previous month to which the tender is published. Similar work means “Design, supply, installation, testing & commissioning and warranty support for passenger information system and advertisements using LCD screens with LED backlit display screen displays in a network within buses/trains/ aircrafts/ hotels/ airports/ railway stations/ bus stations / in any commercial location” and i. Three similar completed works completed in total for 6.24 Cr INR worth LCD screens with LED backlit display in buses/trains/ aircrafts/ hotels/ airports/ railway stations/ bus stations / in any commercial location (or) ii. Two similar works completed in total for 7.8 Cr INR LCD screens with LED backlit display in buses/trains/ aircrafts/ hotels/ airports/ railway stations/ bus stations / in any commercial location (or) iii. One similar work completed in total for 12.48 Cr INR LCD screens with LED backlit display in buses/trains/ aircrafts/ hotels/ airports/ railway stations/ bus stations/ in any commercial location</p>	<p>Work Experience for contract of RAVIS:- Work Experience of having completed similar works during last 7 years, either in India or outside India or both, ending last day of the previous month to which the tender is published. Similar work means “Design, supply, installation, testing & commissioning and warranty support for audio visual passenger information display system or broadcasting audio visual advertisements display system in a network within buses/trains/ aircrafts/ hotels/ airports/ railway stations/ bus stations /in any commercial location” and i. Three similar completed works in total costing not less than 6.24 Cr INR. (or) ii. Two similar completed works in total costing not less than 7.8 Cr INR. (or) iii. One similar completed work in total costing not less than 12.48 Cr INR.</p> <p>Note: The concept and technology mentioned in the Technical Specification of this RAVIS contract has to be implemented.</p>
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12	GCC 6.3 - iv	iv. In case the activity of display system is an integral part of a bigger contract of rolling stock, the eligibility criteria as specified in the GCC 6.2 has to be met with the actual cost of display system among the complete Rolling stock project cost. In this case, Annexure 5 of the RAVIS contract bid shall specify the project cost incurred specific to display system for the specific project.	iv. In case the activity of similar work as defined in GCC 6.2 is an integral part of a bigger project, the eligibility criteria as specified in the GCC 6.2 has to be met with the actual cost of similar work among the complete project cost. In this case, Annexure 5 of the RAVIS contract bid shall specify the cost incurred specific to each similar work for each specific project.
13	Technical specification 6.7.2 S.No ix.	Each Display Module including any fitment enclosures shall not exceed the weight of 8 Kgs while mounting on the existing FRP door panel.	Each DRDS display along with all its specific fitment modules, wiring and connectors shall not exceed the weight of 10 Kgs while mounting on the existing DRM FRP door panel.
14	Technical specification 6.11 S.No xiii.	xiii. Not used.	xiii. Successful bidder shall be provided with a 110 V DC voltage connection at one location in each car of train. The equipment of RAVIS proposal shall be connected only to this single voltage location per car through suitable voltage controllers and separate Circuit protection with Miniature Circuit Breaker specific to the car. Power supply cables and network cables from this single voltage point to all the new DRDS displays and other components of RAVIS tender in each car need to be provided by successful bidder itself. Details of connectors shall be shared to the successful bidder during design stage.
15	Technical specification 6.16 S.No xviii	The operating voltage of all new screen displays, LED matrix displays and audio equipment should be designed to match with the existing operating voltage range and voltage regulation specifications of train during all modes of operation of the train. The design should consider providing voltage surge protection for all electrical and electronic equipment of the train during all modes of operation of train.	The operating voltage of all new DRDS displays, LED frontal & interior matrix displays, audio equipment and related equipment of the RAVIS proposal should be designed to match with the existing operating voltage range and voltage regulation specifications of train during all modes of operation of the train. The design of RAVIS system should consider providing voltage surge protection for all electrical and electronic equipment used in the RAVIS system during all modes of operation of train.

16	SCC Clause 12	Not existing	Contractor Organization at CMRL Successful Bidder shall ensure the availability of competent and sufficient man-power on duty in CMRL premises during all the stages specified in GCC 30.2 of RAVIS contract.
17	Technical Specification 6.7.2 S.No Viii	All DRDS screens shall be vermin resistant.	All DRDS screens shall be rated for at least IP 64 according to EN 60529 standard.
18	Technical Specification 6.10.2 S.No x	Not Used	The existing components of the PACIS controller and its related audio control & amplifier cards shall not be utilized for the new RAVIS proposal. RAVIS system shall be proposed with an independent audio control and amplifiers. Through RAVIS system, successful bidder shall ensure and implement the operation of all the functionality of the Audio system of existing train as described in Technical Specification 6.10.1. Only the existing Audio speakers of the train can be utilized as part of the RAVIS proposal. Door closing warning tone need to be implemented as part of the RAVIS system. Passenger Emergency Intercom (PEI) functionality need to be implemented as part of the RAVIS proposal. The audio speakers shall be connected such that there shall be at least 50% availability of the audio speakers' functionality per car in case of any RAVIS amplifier/controller failure.
19	Technical Specification 6.7.2 S.No xvi	Not existing	In case of any failure in RAVIS system such as network failure or power supply failure or controller failure, there shall be availability of at least 50% of DRDS displays functionality per car.

20	Technical Specification 6.7.2 S.No i	Successful bidder shall propose DRDS digital display technology such as LCD screen with LED backlit displays which comprises below mentioned requirements from CMRL.	<p>Successful bidder shall propose DRDS digital display which comprises below mentioned requirements from CMRL:</p> <table border="1" data-bbox="1205 320 1982 1082"> <thead> <tr> <th colspan="2" data-bbox="1205 320 1982 373">Digital Route Display Screen Requirements</th> </tr> <tr> <th data-bbox="1205 373 1606 421">Parameter</th> <th data-bbox="1606 373 1982 421">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="1205 421 1606 533">Screen Size Range</td> <td data-bbox="1606 421 1982 533">Stretch display of minimum 28 inches to maximum 36 inches in diagonal</td> </tr> <tr> <td data-bbox="1205 533 1606 603">Minimum Pixels Per square Inch</td> <td data-bbox="1606 533 1982 603">48</td> </tr> <tr> <td data-bbox="1205 603 1606 651">Viewing angle (hor/vert)</td> <td data-bbox="1606 603 1982 651">178° / 178°</td> </tr> <tr> <td data-bbox="1205 651 1606 691">Minimum Brightness</td> <td data-bbox="1606 651 1982 691">500 Nits</td> </tr> <tr> <td data-bbox="1205 691 1606 761">Backlight technology</td> <td data-bbox="1606 691 1982 761">LCD screens with LED backlit display</td> </tr> <tr> <td data-bbox="1205 761 1606 801">Minimum Contrast ratio</td> <td data-bbox="1606 761 1982 801">1000:1</td> </tr> <tr> <td data-bbox="1205 801 1606 871">Ambient light sensor required in display</td> <td data-bbox="1606 801 1982 871">Yes</td> </tr> <tr> <td data-bbox="1205 871 1606 911">Minimum Refresh Rate</td> <td data-bbox="1606 871 1982 911">60 Hz</td> </tr> <tr> <td data-bbox="1205 911 1606 951">Minimum Display Colors</td> <td data-bbox="1606 911 1982 951">16 Million Colors</td> </tr> <tr> <td data-bbox="1205 951 1606 991">Operating temperature range</td> <td data-bbox="1606 951 1982 991">0°C to 60°C</td> </tr> <tr> <td data-bbox="1205 991 1606 1031">Storage temperature range</td> <td data-bbox="1606 991 1982 1031">-20°C to 60°C</td> </tr> <tr> <td data-bbox="1205 1031 1606 1070">Minimum Display Lifetime</td> <td data-bbox="1606 1031 1982 1070">100,000 Hours</td> </tr> </tbody> </table>	Digital Route Display Screen Requirements		Parameter	Value	Screen Size Range	Stretch display of minimum 28 inches to maximum 36 inches in diagonal	Minimum Pixels Per square Inch	48	Viewing angle (hor/vert)	178° / 178°	Minimum Brightness	500 Nits	Backlight technology	LCD screens with LED backlit display	Minimum Contrast ratio	1000:1	Ambient light sensor required in display	Yes	Minimum Refresh Rate	60 Hz	Minimum Display Colors	16 Million Colors	Operating temperature range	0°C to 60°C	Storage temperature range	-20°C to 60°C	Minimum Display Lifetime	100,000 Hours
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21	Technical Specification 6.9.2 S.No ix	Not existing	<p>The New input/output console/Tab shall be kept is sleep/off mode when the corresponding driver cabin is inactive.</p> <p>This console shall have multiple login username and password for accessing. It shall accommodate at least 1000 numbers of Login passwords for the CMRL & related staff. These login details shall able to be modified by authorized CMRL personnel during & after the RAVIS contract using the maintenance tool. Successful bidder shall provide training to CMRL for modifying the details of Login details.</p>																												

22	Technical Specification 6.9.2 S.No ix	Not existing	<p>Successful bidder shall propose New Input Output (I/O) Console/Tab digital display technology which comprises below mentioned requirements from CMRL.</p> <table border="1" data-bbox="1167 357 1928 1121"> <thead> <tr> <th colspan="2" data-bbox="1167 357 1928 411">Driver Desk HMI requirements</th> </tr> <tr> <th data-bbox="1167 411 1547 459">Parameter</th> <th data-bbox="1547 411 1928 459">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="1167 459 1547 571">Screen Size Range</td> <td data-bbox="1547 459 1928 571">Touch screen display of minimum 9 to maximum 11 Inches diagonal</td> </tr> <tr> <td data-bbox="1167 571 1547 643">Minimum Pixels Per Square Inch</td> <td data-bbox="1547 571 1928 643">133</td> </tr> <tr> <td data-bbox="1167 643 1547 683">Viewing angle (hor/vert)</td> <td data-bbox="1547 643 1928 683">178° / 178°</td> </tr> <tr> <td data-bbox="1167 683 1547 722">Minimum Brightness</td> <td data-bbox="1547 683 1928 722">400 Nits</td> </tr> <tr> <td data-bbox="1167 722 1547 802">Backlight technology</td> <td data-bbox="1547 722 1928 802">LCD screens with LED backlit display with Touch screen</td> </tr> <tr> <td data-bbox="1167 802 1547 842">Minimum Contrast ratio</td> <td data-bbox="1547 802 1928 842">1000:1</td> </tr> <tr> <td data-bbox="1167 842 1547 882">Ambient light sensor</td> <td data-bbox="1547 842 1928 882">Yes</td> </tr> <tr> <td data-bbox="1167 882 1547 922">Minimum Refresh Rate</td> <td data-bbox="1547 882 1928 922">60 Hz</td> </tr> <tr> <td data-bbox="1167 922 1547 962">Color</td> <td data-bbox="1547 922 1928 962">16 Million Colors</td> </tr> <tr> <td data-bbox="1167 962 1547 1042">Operating temperature range</td> <td data-bbox="1547 962 1928 1042">0°C to 60°C</td> </tr> <tr> <td data-bbox="1167 1042 1547 1082">Storage temperature range</td> <td data-bbox="1547 1042 1928 1082">-20°C to 60°C</td> </tr> <tr> <td data-bbox="1167 1082 1547 1121">Minimum Display Lifetime</td> <td data-bbox="1547 1082 1928 1121">100,000 Hours</td> </tr> </tbody> </table>	Driver Desk HMI requirements		Parameter	Value	Screen Size Range	Touch screen display of minimum 9 to maximum 11 Inches diagonal	Minimum Pixels Per Square Inch	133	Viewing angle (hor/vert)	178° / 178°	Minimum Brightness	400 Nits	Backlight technology	LCD screens with LED backlit display with Touch screen	Minimum Contrast ratio	1000:1	Ambient light sensor	Yes	Minimum Refresh Rate	60 Hz	Color	16 Million Colors	Operating temperature range	0°C to 60°C	Storage temperature range	-20°C to 60°C	Minimum Display Lifetime	100,000 Hours
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23	Technical Specification 6.16 S.No xli	Not Existing	<p>Importing electronics and information technology (IT) products without Bureau of Indian Standards (BIS) registration is now prohibited in India.</p> <p>Successful bidder shall take necessary BIS registration & certification for the components of RAVIS.</p>																												

24	Technical Specification 6.16 S.No xlii	Not Existing	The RAVIS system shall not have any requirement of hardware or software installation procedure when individual cars of the train are uncoupled and coupled.
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