



# KERALA STATE ROAD TRANSPORT CORPORATION

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No: ML1/004546/24

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## CORRIGENDUM-1

Sub: Trial run of fully built HSD BSVI non AC 28-34 seater (maximum 9m length) and AC 40 seater buses for KSRTC- Corrigendum - reg:-

Ref: 1. EoI No. ML1/004546/2024 dt: 20.02.2024  
2. Tender ID:2024\_KSRTC\_663549\_1

SI No	Clause No. in EoI document	Existing Terms and Conditions	Modification/Addition
1	3.1.a	3.1.a) Qualified Vehicle manufacturers of EoI shall give an undertaking that the vehicle for trial run is given free of cost for a period of <b>maximum three months.</b>	The clause 3.1.a will be amended as qualified Vehicle manufacturers of EoI shall give an undertaking that the vehicle for trial run is given free of cost for a period of <b>one month.</b>
2	3.1.c	3.1.c) Maintenance and repairs including break downs shall be attended by the vehicle manufacturer at free of cost.	The clause 3.1.c will be amended as <b>daily maintenance according to OEM specification, minor Break down (eg. Tyre puncture if stepney tyre is available) will be attended by KSRTC. All other expenses including hire charges, attending major break downs, parts replacement, maintenance etc shall be borne by vehicle manufacturer.</b>
3	3.2 e	3.2.e)Cost of fuel, DEF, Toll charges will borne by KSRTC. All other expenses shall be borne by vehicle manufacturer.	The clause 3.2c will be amended as <b>Route permit, driver and conductor, parking space,</b> Cost of fuel, DEF, Toll charges of vehicle for trial run will be arranged by KSRTC. All other expenses shall be borne by vehicle manufacturer.
4	4.b	The successful bidders in EoI shall provide one bus for trial run within <b>20 days</b> after the receipt of the Letter of Intent (LoI) received from KSRTC otherwise they will not be eligible to participate in the e-tender for procurement.	The Clause 4.b will be amended as the successful bidders in EoI shall provide one bus for trial run within <b>maximum 30 days</b> after the receipt of the Letter of Intent (LoI) received from KSRTC

5	4.f	After trial run, the bidders should withdraw their buses and no claim will be entertained by KSRTC regarding the maintenance, repair, damages etc.	No amendments will be made
6	7.3.2	Criteria for evaluation of trial run; Overall performance of the bus will be evaluated using scientific selection method of Multi-Criteria Decision Making (MCDM) Method using Weighted Aggregated Sum Product Assessment technique (WASPA).	<p><b>a) Per day operating KM for non AC bus is 240-280 and for AC bus it is 440 KM per trip (800km per day max.)</b></p> <p><b>b).The methodology adopted for deciding the weightages to the criteria is Fuzzy Analytic Hierarchy Process (AHP).</b></p> <p><b>The steps involved in Fuzzy AHP are:</b></p> <ol style="list-style-type: none"> <li>1. Identifying the various criteria- The criteria to be considered for the selection of buses are KMPL during trial run, Consumption of DEF/ km, Engine performance, Periodic maintenance cost /km, Break down rate /5000km and Crew feed-back.</li> <li>2. Pairwise Comparison: The criteria are expressed with their preferences using fuzzy linguistic terms.</li> <li>3. Fuzzy Conversion: Convert linguistic judgments into fuzzy numbers.</li> <li>4. Fuzzy Weight Calculation: Determined the fuzzy weights for each criterion based on the fuzzy pairwise comparisons.</li> <li>5. De-fuzzifying the weights: Final weights of the criteria is obtained by defuzzification. The final weightages to each criteria is given in the EoI.</li> </ol> <p><b>c). The bus ranking will be done using <b>Weighted aggregated sum product assessment (WASPAS)</b> method. In <b>WASPAS</b> technique, each bus will be assessed against the criteria that mentioned in <b>EoI(KMPL, Consumption of DEF etc)</b> and these assessments are combined</b></p>

			<p>using weighted aggregation to estimate the rank.</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li>1. Janeiro, R. De. (2023), "Use of the WASPAS Method to Select Suitable Helicopters for Aerial Activity Carried Out by the Military Police of the State of Rio de Janeiro".</li> <li>2. Meng, X. and Shaikh, G.M. (2023), "Evaluating Environmental, Social, and Governance Criteria and Green Finance Investment Strategies Using Fuzzy AHP and Fuzzy WASPAS", Sustainability (Switzerland), Vol. 15 No. 8, available at: <a href="https://doi.org/10.3390/su15086786">https://doi.org/10.3390/su15086786</a>.</li> </ol> <p><b>d. Minimum qualifying WASPAS weight required for participation in tender will be 0.5 out 1</b></p>
<b>7</b>	7.3.2.3	Engine performance (c). <b>0-80km/hr</b> Acceleration in sec	In clause 7.3.2.3.C (Criteria for evaluation of trial run) For Acceleration in sec, <b>ARAI certificate provided for 0-30km/hr &amp; 0-60km/hr</b> , will be considered.
<b>8</b>	Apendix- I, Pt. No 1	Engine Power - <b>145-160 HP</b>	Apendix- I, Pt. No 1- Engine power will be amended as <b>120 - 160 HP</b>
<b>9</b>	Apendix- I, Pt. No 5	Wheel base - 4200-4500 mm	No amendments will be made
<b>10</b>	Apendix- I, Pt. No 11	Single door, driver operated	Apendix- I, Pt. No 11, will be amended as single <b>Passenger door, driver operated ahead or behind front axle for Non AC bus</b>
<b>11</b>	Clause 3.1 h	Vehicle manufacturer shall provide all related documents required for obtaining stage carriage permit from Kerala Motor vehicle department	The bus should be <b>registered to manufacturer or any third party, only stage carriage permit will be taken by KSRTC</b> and Vehicle manufacturer shall provide <b>all related documents required for obtaining stage carriage permit from Kerala MVD</b>
<b>12</b>	Appendix - I SL NO. 12	225/75 R17.5 or R16	Appendix -I SL NO. 12, Tyre size will be amended as 225/75 R17.5 or R16 <b>OR 235/75 R17.5</b>

<b>13</b>	Appendix - I	<b>Not specified</b>	In Appendix-I, Minimum GVW will be amended as <b>8,000kg</b>
<b>14</b>	Appendix-II, SL No. 1	Engine Power <b>150 – 180 HP</b>	Appendix-II, SL No. I, Engine power will be amended as <b>140 - 180 HP</b>
<b>15</b>	Appendix - II SL No. 5	Wheel base <b>5300 – 5500 mm</b>	Appendix -II SL No. 5, Wheel base will be amended as <b>5200 - 5500mm</b>
<b>16</b>	Appendix - II SL No. 5	<b>Not specified</b>	In Appendix-II, Minimum GVW will be amended as <b>10,000kg</b>
<b>17</b>	Appendix-II, Pt. No 11	Single door, driver operated	Appendix-II, Pt. No 11, will be modified as <b>Single passenger door, driver operated ahead front axle</b>
<b>18</b>	3.1.(g) / Page No. 6	Vehicle location and Tracking System	<b>Need to be provided by manufacturer</b> , No amendments will be made

Sd/-

**EoI Inviting Authority**